Wood Hollow Residences Project

Addendum to the Novato 2035 General Plan Update Environmental Impact Report

State Clearinghouse No. 2016122043

prepared by

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1 Introduction and Project Summary

1.1 Project Title

Wood Hollow Residences Project

1.2 Lead Agency/Project Sponsor and Contact

Lead Agency/Project Sponsor

City of Novato
Community Development Department
922 Machin Avenue
Novato, California 94945

Contact Person

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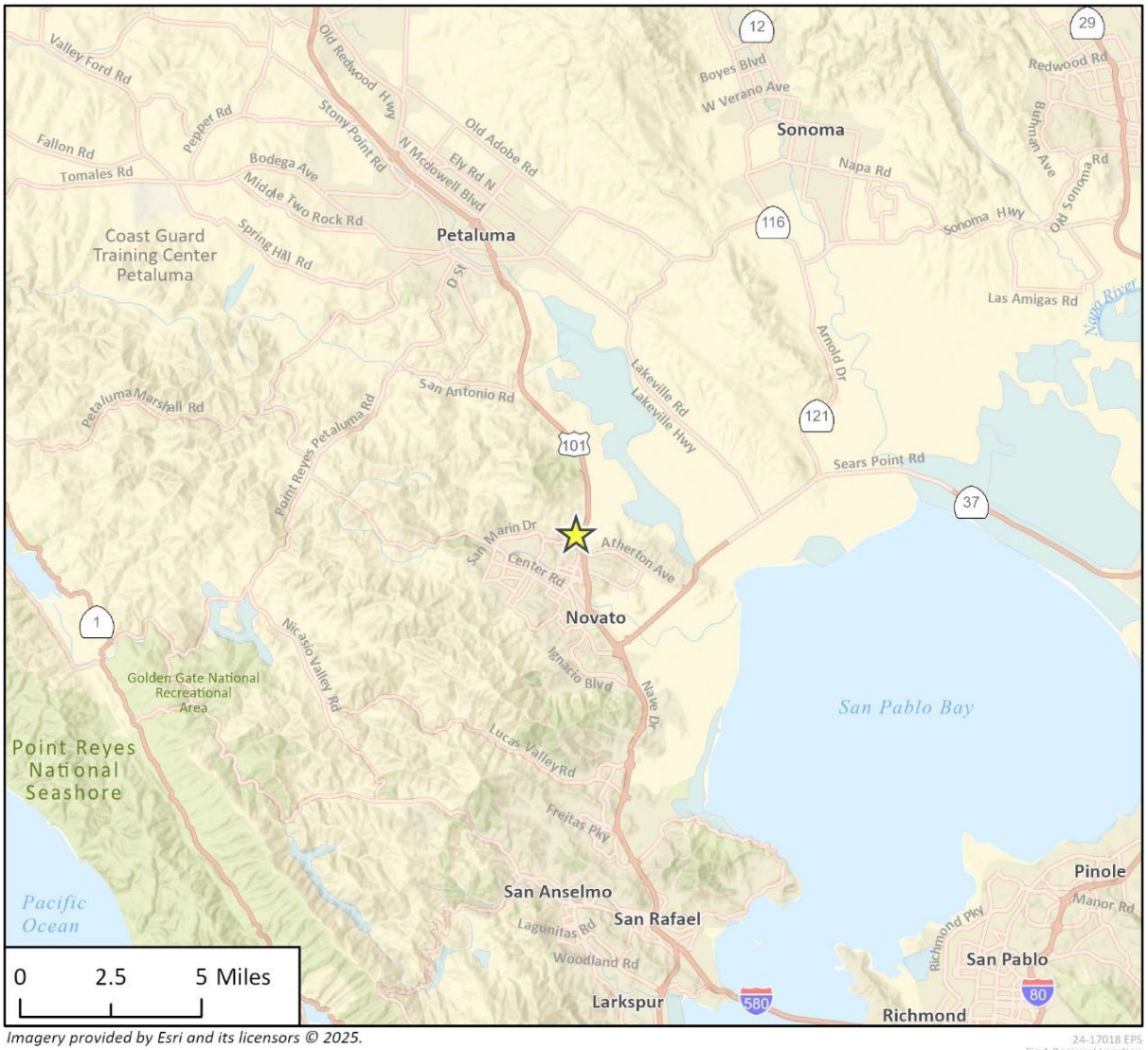
1.3 Project Location and Surrounding Land Uses

The project site encompasses an approximately 12.9-acre area north of Wood Hollow Drive and west of Meadow Crest Road in Novato, California (Assessor's Parcel No. 125-202-17). The project site is generally flat and is currently developed with a three-story office building and surface parking lot with approximately 550 spaces. The project site is approximately 800 feet west of U.S. Highway 101 (U.S. 101), 0.2 mile west of the Rush Creek Marsh Wildlife Area, and 0.2 mile north of San Marin Drive. Figure 1 shows the regional location of the project site and Figure 2 shows the site in its local context. Access to the site is provided via Meadow Crest Road.

The project site is immediately bordered by undeveloped oak woodlands to the north and west, Meadow Crest Road to the east, and Wood Hollow Drive to the south. Single-family residences are located approximately 170 feet east of the project site, and multi-family residences are located approximately 750 feet to the northeast. A vacant office campus is located south of the project site across Wood Hollow Drive, which has been approved for redevelopment with residential uses.

Figure 1 Regional Location



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24-17018 EPS
Fig 1 Regional Location

Project Location

N

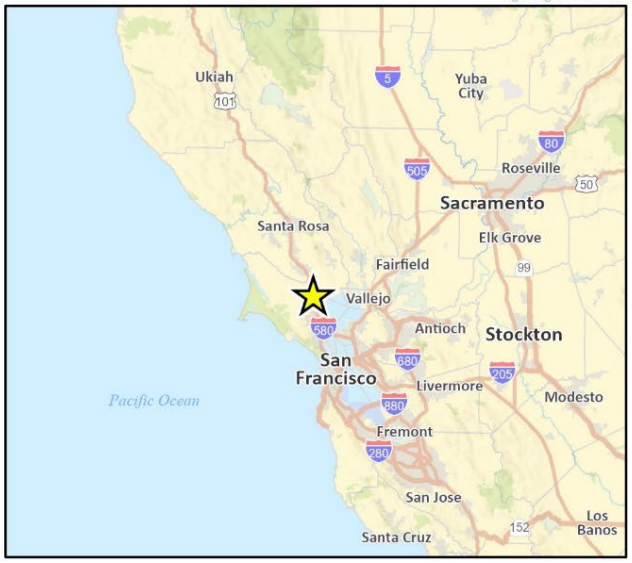

Figure 2 Project Site and Surrounding Land Uses

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24-17018 EPS
Fig 2 Project Location

1.4 General Plan Designation

The project site has a land use designation of Business and Professional Office (BPO), which allows for a variety of office, research, and educational activities. Certain and limited retail service, residential, and utility uses may also be allowed under this designation (City of Novato 2020).

1.5 Zoning

The project site is zoned as Planned District (PD). The PD zoning district is applied to large parcels capable of being developed as an integrated community neighborhood, with appropriate public services, infrastructure, neighborhood convenience retail and services; and to smaller sites with sensitive environmental resources or other unique constraints. The PD zoning district may be applied to any land use designation of the General Plan (Novato Municipal Code [NMC] Section 19.14.020(B)). The PD zoning district requires the adoption of a master plan, specifying land use and development intensity (e.g., residential density, floor area ratio, etc.), and a precise development addressing the physical and operation aspects of a project. In this instance, the project site is regulated by the Marin Business Center Master Plan (City Council Ordinance No. 1400) and the Marin Business Center Precise Development Plan (City Council Resolution No. 162-98).

1.6 Project Description

The Wood Hollow Residences Project (hereinafter referred to as the "project" or "proposed project") would involve demolition of the existing office building, surface parking lot, and 405 trees within the project site, subdivision of the project site into 66 residential lots, and construction of 66 for-sale, detached single family residences. The project includes internal streets, a publicly accessible recreational open space area, and passive open space. Construction of internal streets, and the proposed open space would be undertaken by the project applicant. The proposed project does not include rezoning the project site or changes to the General Plan land use designation of the site.

Proposed Site Plan

Figure 3 shows the proposed site plan, including 66 residential lots, internal street circulation, on-site guest parking spaces, a publicly accessible recreational open space area, and passive open space. The proposed residences, internal streets, parking spaces, open space areas, and landscaped areas would be located within the development footprint of the existing office and parking lot at the project site and the undeveloped hillside north of the project site would remain undeveloped. Residential lots would vary in size from 2,300 square feet to 3,735 square feet, and the proposed residences would be constructed with one of nine possible floor plans. Proposed residences would be two stories in height and would include four bedrooms, three bathrooms, and a two-car garage. In addition, two parcels within the project site totaling approximately 7,415 square feet would be landscaped, maintained as open space, and used for stormwater drainage (discussed further under Section 1.6.4, *Public Services and Utilities*).

Figure 3 Proposed Site Plan

Table 1 provides details on project characteristics.

Table 1 Project Characteristics

Current Site Address	100 Meadow Crest Road
APN	125-202-17
Proposed Height/Stories	28 feet 2 inches / 2 stories
Lot Areas	
Residential Lots	173,847 sq. ft.
Streets	66,937 sq. ft.
Stormwater Management Areas	
Drainage Management Area 1	145,545 sq. ft.
Drainage Management Area 2	140,500 sq. ft.
Drainage Management Area 3	2,812 sq. ft.
Bioretention Area 1	3,485 sq. ft.
Bioretention Area 2	3,930 sq. ft.
Residential Lots	
Number of Units	66
Minimum Lot Size	2,300 sq. ft.
Maximum Lot Size	3,735 sq. ft.
Net Residential Density	16.5 units/acre

Notes: APN = Assessor's Parcel Number; sq. ft. = square feet

Site Access and Circulation

Primary site access would be provided via the existing driveway from Meadow Crest Road. As shown in Figure 3, three primary internal streets (called Streets A, B, and C for planning purposes) would provide access throughout the project site. Six dead-end streets connecting to Streets A, B, and C would provide further access. In addition, as shown in Figure 3, a 20-foot wide emergency vehicle access path would be installed along the southern boundary of the project site, which would connect to Wood Hollow Drive. Twenty-four guest parking spaces would be provided throughout the proposed residences, and a small street with parking spaces would provide access to the proposed open space. Pedestrian access would be available via sidewalks that would generally follow the proposed internal streets, and would connect to existing sidewalks on Meadow Crest Road and Wood Hollow Drive.

Open Space and Landscaping

A publicly accessible recreational open space area would be constructed on the western side of the project site and would include amenities such as outdoor seating areas, tables, and play structures. In addition, the remaining portion of the parcel north of the proposed residences, outside of the existing development footprint, would remain undeveloped.

Project landscaping would include planting trees along the perimeter of the residential area and along the proposed internal streets. Proposed trees to be planted include Marina strawberry tree (*Arbutus 'Marina'),* crape myrtle (*Lagerstroemia indica*), and oak trees (*Quercus spp.*). Shrubs and

groundcover vegetation would be planted in the bioretention areas and along the ROW of proposed internal streets.

Public Services and Utilities

Water would be provided to the project site by the North Marin Water District (NMWD). Eight-inch water supply pipelines would be installed within the alignment of proposed internal streets, and would connect to existing eight-inch water pipelines along Wood Hollow Drive and Meadow Crest Road.

Wastewater collection and treatment services would be provided by the Novato Sanitary District (NSD). Six-inch sewer pipelines would be installed within the alignment of proposed internal streets. The project's sewer pipeline would connect to the existing main at the intersection of Wood Hollow Drive and Meadow Crest Road.

The project site would include three drainage management areas to facilitate conveyance and treatment of stormwater. The proposed internal streets would include curbs and gutters, which would direct stormwater flows to a proposed storm drainpipe. The storm drain pipeline would be located along Streets A, B, and C, and would connect to the two proposed bioretention treatment areas located on the eastern boundary of the site along Meadow Crest Road. Bioretention Area 1, located on the northeast side of the residential area, would be 3,485 square feet and Bioretention Area 2, located on the southeast side of the residential area at the intersection of Wood Hollow Drive and Meadow Crest Road, would be 3,930 square feet. Stormwater would percolate through these areas and then flow into separate segments of proposed storm drainpipe, which would connect to the existing stormwater drains along Meadow Crest Road and Wood Hollow Drive.

Electricity would be provided to the project site by Marin Clean Energy, the region's community choice energy provider, or PG&E based on future homeowner preference. PG&E would provide electrical infrastructure to convey electricity to future residences. The project would not include the installation of natural gas infrastructure or the use of natural gas in the residences as indicated by the project applicant.

Construction and Grading

The project would be constructed over three years, and construction could begin as early as July 2026. Demolition of the existing office building and parking lot, site preparation, and grading would occur within the first year. Construction of the proposed residences would require approximately two years, and final paving of the proposed internal streets would occur in the last month. Each residence would be available for purchase once constructed. Construction activities would occur 7:00 a.m. to 6:00 p.m., Monday through Friday, and 10:00 a.m. to 5:00 p.m. on Saturdays. Nighttime construction is not anticipated to be required.

Approximately 140,000 square feet of surface paving would be removed from the site during demolition, and approximately 8,500 cubic yards of soil would be excavated and exported from the site. Grading would require excavation of approximately 21,500 cubic yards of soil, and 15,300 cubic yards would be reused as fill. Approximately 6,200 cubic yards of soil would be exported during construction activities, for a total soil export of 14,700 cubic yards.

Required Approvals

The proposed project is anticipated to require the following permits and approvals:

- **City of Novato (Lead Agency)**
  - Vesting Tentative Map
  - Design Review
  - Final Subdivision Map
  - Grading and Improvement Plan
  - Grading Permit
  - Encroachment Permit
  - Building Permits
- **Bay Area Air District**
  - Authority to Construct
- **North Marin Water District**
  - Approval Water Service, Plumbing, and Landscape Irrigations
- **PG&E**
  - Electricity Service
- **Novato Fire Protection District**
  - Fire and Emergency Response, Access, and Site and Plan Review for Fire Prevention, Protection, and Safety
  - Emergency Medical Response and Access
  - Hazardous Materials Spill and Accidental Release Response
- **Novato Sanitary District**
  - Approval of wastewater infrastructure

2 Basis for the Addendum

CEQA Guidelines Sections 15162 and 15164 set forth the criteria for determining the appropriate additional environmental documentation, if any, to be completed when a project has a previously certified Environmental Impact Report (EIR).

CEQA Guidelines Section 15164 states a lead agency shall prepare an addendum to a previously certified EIR if some changes or additions are necessary, but none of the conditions described in Section 15162 calling for preparation of a subsequent EIR have occurred. CEQA Guidelines Section 15162(a) states no Subsequent or Supplemental EIR shall be prepared for a project with a certified EIR unless the lead agency determines, based on substantial evidence in the light of the whole record, one or more of the following:

1. Substantial changes are proposed in the project that will require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.
2. Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.
3. New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete, shows any of the following:
   A. The project will have one or more significant effects not discussed in the previous EIR.
   B. Significant effects previously examined will be substantially more severe than shown in the previous EIR.
   C. Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative.
   D. Mitigation measures or alternatives that are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

The analysis pursuant to CEQA Guidelines Section 15162 demonstrates whether the lead agency can approve the activity as being within the scope of the existing certified EIR, that an addendum to the existing EIR would be appropriate, and no new environmental document, such as a new EIR, would be required. The addendum need not be circulated for public review but can be included in or attached to the Final EIR, and the decision-making body shall consider the addendum with the Final EIR prior to deciding on the project.

The City of Novato has prepared this EIR Addendum, pursuant to CEQA Guidelines Sections 15162 and 15164, to evaluate whether the proposed project's environmental impacts are covered by and within the scope of the Final EIR for the 2035 General Plan Update (2035 GPU; State Clearinghouse No. 2016122043). This Addendum details any changes in the project, changes in circumstances

under which the project is undertaken, and/or "new information of substantial importance" that may cause one or more effects to environmental resources.

The responses herein substantiate and support the City of Novato's determination that the proposed modifications are within the scope of the Final EIR certified for the 2035 GPU, do not require subsequent action under CEQA Guidelines Section 15162 and, in conjunction with the Final EIR for the 2035 GPU, adequately analyze potential environmental impacts.

The Final EIR for the 2035 GPU was used in preparation of this Addendum and is incorporated herein by reference, consistent with Section 15150 of the CEQA Guidelines.

3 Environmental Effects and Determination

3.1 Environmental Areas Determined to Have New or Substantially More Severe Significant Effects Compared to Those Identified in the Previous EIR

The subject areas checked below were determined to be new significant environmental effects or to be previously identified effects that have a substantial increase in severity either due to a change in project, change in circumstances, or new information of substantial importance, as indicated by the checklist and discussion on the following pages.

■ None

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

3.2 Determination

Based on this analysis:

☐ Substantial changes are proposed in the project or there are substantial changes in the circumstances under which the project will be undertaken that will require major revisions to the previous EIR due to the involvement of significant new environmental effects or a substantial increase in the severity of previously identified significant effects. Or, there is "new information of substantial importance," as that term is used in CEQA Guidelines Section 15162(a)(3). Therefore, a SUBSEQUENT or SUPPLEMENTAL EIR is required.

■ No substantial changes are proposed in the project and there are no substantial changes in the circumstances under which the project will be undertaken that will require major revisions to the previous EIR due to the involvement of significant new environmental effects or a substantial increase in the severity of previously identified significant effects. Also, there is no "new information of substantial importance" as that term is used in CEQA Guidelines Section 15162(a)(3). Therefore, the previously certified EIR is adequate and this evaluation serves as an ADDENDUM to the City of Novato, General Plan Update Environmental Impact Report (General Plan EIR). State Clearinghouse Number 2016122043 certified October 2020.

Steve Marshall	March 20, 2025
Signature	Date
Steve Marshall	Deputy Community Development Director
Printed Name	Title

4 Addendum Evaluation Methodology

4.1 Context of the 2035 General Plan Update EIR

The Final EIR for the City of Novato 2035 GPU (SCH No. 2016122043; hereinafter referred to as the "Final EIR") evaluated the environmental impacts of the 2035 GPU. The 2035 GPU was a comprehensive update to the City's 1996 General Plan and established the community's vision for future development of the city through 2035. As part of the 2035 GPU, the City's General Plan Land Use Map was updated to permit and facilitate growth in four specific focus areas in the city and in industrial areas. The Final EIR evaluated total development projected to occur through 2035, which included 22,399 housing units, approximately 4.4 million square feet of commercial uses, 4 million square feet of office uses, and 1.4 million square feet of industrial uses.

Chapter 4, *Environmental Impact Analysis*, of the Final EIR concluded the 2035 GPU would result in significant and unavoidable impacts to transportation and traffic, related to vehicle delay and level of service. The Final EIR concluded the 2035 GPU would result in less-than-significant impacts to the following environmental resources with implementation of the identified mitigation measures:

- Air Quality (air quality violations, toxic air contaminants, and odors)
- Biological Resources (special status species, wildlife movement)
- Cultural Resources (historic, archaeological, and paleontological resources)
- Geology and Soils (alternative wastewater disposal)
- Noise (disturbance of sensitive receptors, vibration)
- Tribal Cultural Resources

In addition, the Final EIR concluded the 2035 GPU would result in less-than-significant resources to the following environmental resources without mitigation:

- Aesthetics
- Air Quality (consistency with air plans, net increase in criteria pollutants)
- Biological Resources (wetlands, consistency with biological resources policies and habitat conservation plans)
- Cultural Resources (human remains)
- Geology and Soils (fault rupture, ground failure, expansive soils)
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise (increase in ambient noise levels, traffic noise, airport noise)
- Population and Housing
- Public Services
- Recreation
- Traffic and Transportation (air traffic, emergency access, consistency with applicable plans)
- Utilities and Service Systems

4.2 Addendum Analysis and Format

The Final EIR evaluated the environmental impacts of construction and operation of the 2035 GPU. The impacts analysis contained in Section 5, Addendum Evaluation, of this Addendum follow the order of the Final EIR. For each environmental resource, the analysis 1) summarizes the impacts identified in the Final EIR; 2) discusses potential impacts, including cumulative impacts, associated with the proposed project; and 3) presents a conclusion regarding potential impacts associated with the proposed project and how they compare to impacts identified in the Final EIR.

The Final EIR for the 2035 GPU, which was prepared in 2020, assessed the environmental topic areas that were identified in the CEQA Guidelines Appendix G Checklist at the time of preparation of that document. Since certification of the Final EIR in 2020, the CEQA Guidelines were updated, and modifications to the CEQA Guidelines Appendix G Checklist were subsequently adopted. These modifications include adding Energy and Wildfire sections to the Appendix G Checklist. This Addendum evaluates the proposed project with the thresholds used in the Final EIR, and, where applicable, thresholds from the current (2025) CEQA Guidelines Appendix G Checklist that were not evaluated in the Final EIR are discussed in relation to the proposed project. It should be noted that changes in regulations after approval of the original EIR do not constitute new information triggering a supplemental or subsequent EIR (*Concerned Dublin Citizens v. City of Dublin* [2013] 214 Cal.App.4th 1301, 1320). Nor does it require a previously analyzed topics, such as Energy or Wildfire, to be reassessed under the new requirements (*Olen Properties Corp. v. City of Newport Beach* [2023] 93 Cal.App.5th 270, 280–281). Therefore, the analysis of the project impacts on Energy and Wildfire are included within this Addendum for informational purposes only.

5 Addendum Evaluation

5.1 Aesthetics

Final EIR Aesthetics Findings

The Final EIR determined that impacts to scenic vistas and state scenic highways would be less than significant, as the 2035 GPU would not facilitate development that would substantially obstruct scenic vistas or views of scenic natural or architectural resources. The Final EIR determined that the 2035 GPU would maintain Novato's visual character by prioritizing development in focus areas and preserving single-family neighborhoods, and impacts to the existing visual character or quality of the city would be less than significant. Because development facilitated by the 2035 GPU would be subject to existing regulations in the NMC and 2035 General Plan policies, the Final EIR concluded that the 2035 GPU would have a less than significant impact related to light and glare. In terms of cumulative impacts, the Final EIR determined that while development facilitated by the 2035 GPU would intensify urban development, the 2035 would not have a considerable contribution to significant cumulative impacts to aesthetics.

Addendum Analysis

The 2035 GPU identifies hillsides and ridgelines as scenic resources and other lands as depicted on Figure ES-5. The project site is not identified as having scenic resources on Figure ES-5. Short-range views of nearby hillsides and long-range views of hillsides and ridgelines are available from the project site. Public views of hillsides and ridgelines are already limited by existing development, including the existing office building proposed to be replaced by the project, and trees, and implementation of the proposed project would not have a substantial adverse effect on these views. In addition, the project would include areas of public access in the northern portion of the project site, which would help maintain public views of these scenic resources. Therefore, the proposed project would not have a substantial adverse effect on a public scenic vista, and impacts would be less than significant.

There are no officially designated state scenic highways in the vicinity of the project site (California Department of Transportation 2018). Therefore, implementation of the proposed project would not substantially damage scenic resources within a state scenic highway.

The project applicant proposes a different land use than what is designated for the site in the 2035 GPU, and the proposed project would alter the visual character of the site through the removal of the existing office building thereon and the introduction of new residential development. However, the project would be located in an area where single family residential development already exists. In addition, the project would preserve the open space area north of the existing development footprint within the project site and would maintain views of surrounding open space. Therefore, although the project would not be consistent with the 2035 GPU's land use designation, it would not substantially degrade the existing visual character or quality of the site and its surroundings and impacts would be less than significant.

Similar to the conclusions of the Final EIR, the project would add new sources of light and glare during construction and operation. New sources of light and glare during construction, such as security lighting, would be temporary. Further, light and glare associated with operation of the project (e.g., exterior residential lighting, car headlights) would be similar to existing sources of light

and glare associated with the office building in the project site. Therefore, the project would not introduce substantial new sources of light or glare and impacts would be less than significant.

Overall, project impacts associated with aesthetics would be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to aesthetics, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information that indicates that impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of aesthetics is required.

5.2 Air Quality

Final EIR Air Quality Findings

Air quality for the 2035 GPU is discussed in Section 4.2, *Air Quality,* of the Final EIR. The Final EIR determined that implementation of the 2035 GPU does not conflict with or obstruct implementation of the Bay Area Air District (BAAQMD)'s 2017 Clean Air Plan. As shown in the Final EIR, the 2035 GPU's Table 4.2-3 outlines policies that would be consistent with several control measures aimed at reducing criteria air pollutant emissions from the transportation, energy, building, and water sectors. In addition, the rate of vehicle miles travelled (VMT) would not exceed the population growth rate facilitated by the 2035 GPU. Therefore, the Final EIR determined that the 2035 GPU would not conflict with or obstruct the latest air quality plan and impacts would be less than significant.

The Final EIR determined that implementation of the 2035 GPU would not cause a violation of an air quality standard and would not contribute substantially to an existing or projected air quality violations, provided Mitigation Measure AQ-1, which requires BAAQMD's Basic Construction Measures for all projects, is implemented. The Final EIR determined construction emissions were potentially significant, but the implementation of BAAQMD's Basic Construction Mitigation Measures, or equivalent, expanded, or modified measures, would reduce these impacts to less than significant. Additionally, as discussed above, the 2035 GPU would be consistent with the 2017 Clean Air Plan control measures, leading to a reduction in air pollutant emissions. Therefore, The Final EIR determined that operational emissions from the 2035 GPU would be less than significant.

The Final EIR stated the implementation of the 2035 GPU could result in additional sources of toxic air contaminants (TACs) near sensitive receptors and place new sensitive receptors close to high-volume roadways and freeways. However, implementation of Final EIR Mitigation Measure AQ-2 would require all development projects facilitated by the 2035 GPU to prepare a health risk assessment (HRA) to evaluate TAC exposure for construction and operations of a project within 1,000 feet of sensitive receptors. Projects that may expose sensitive receptors to substantial pollutant concentrations must incorporate mitigation measures. Therefore, with the implementation of Mitigation Measure AQ-2, the Final EIR determined that TAC impacts would be less than significant.

Development facilitated by the 2035 GPU may include chemical odors or odors from food manufacturing land uses. The Final EIR determined that implementing Mitigation Measure AQ-3, which requires new manufacturing and laboratory development to be designed and constructed to minimize potential future odors and ensure prompt responses to odor complaints, would reduce odor impacts to less than significant levels. Additionally, the Final EIR determined that implementation of the 2035 GPU would not have a cumulatively considerable contribution to cumulative air quality impacts.

Addendum Analysis

Consistency with Bay Area Air District Clean Air Plan

The California Clean Air Act requires that air districts create a Clean Air Plan that describes how the jurisdiction will meet air quality standards. The most recently adopted air quality plan is the 2017 Clean Air Plan which includes control measures related to stationary sources, transportation, energy, buildings, agriculture, natural and working lands, waste management, water, and super-GHG pollutants. As shown in Table 2, the proposed project would include applicable control measures from the 2017 Clean Air Plan and would not disrupt or hinder implementation of such control measures. Similar to the 2035 GPU, the proposed project would be consistent with applicable control measures of the 2017 Clean Air Plan and would result in no new or more severe impacts related to conflicts with applicable air quality plans beyond those identified in the previously adopted Final EIR.

Additionally, a project would support the 2017 Clean Air Plan, on an individual project basis, if it is consistent with BAAQMD's quantitative thresholds, thereby demonstrating support for the Clean Air Plan's goals. As shown in Table 3 under Section, *Air Quality Standards*, the project would not result in exceedances of BAAQMD thresholds for criteria air pollutants and thus would not conflict with the 2017 Clean Air Plan's goal to attain air quality standards.

Air Quality Standards

CONSTRUCTION EMISSIONS

Project construction would generate short term emissions of criteria air pollutants. The criteria air pollutants of primary concern within the project area include ozone (O_3) precursor pollutants (i.e., reactive organic gases [ROG] and nitric oxide [NO_x]) and particulate matter with diameter 10 microns or less and 2.5 microns or less (PM_{10} and $PM_{2.5}$). Temporary generation of construction emissions would result from demolition, site grading, road paving, motor vehicle exhaust associated with construction equipment and worker trips, and the movement of construction equipment, especially on unpaved surfaces. Emissions of airborne particulate matter are largely dependent on the amount of ground disturbance associated with site preparation activities as well as weather conditions and the appropriate application of water.

Table 2 Project Consistency with Applicable Control Measures of 2017 Clean Air Plan

Control Measure	Evaluation
▪ **EN1: Decarbonize Electricity Production.** Engage with PG&E, municipal electric utilities and CCs to maximize the amount of renewable energy contributing to the production of electricity within the Bay rea as well as electricity imported into the region. Work with local governments to implement local renewable energy programs. Engage with stakeholders including dairy farms, forest managers, water treatment facilities, food processors, public works agencies and waste management to increase use of biomass in electricity production. ▪ **EN2: Decrease Electricity Demand.** Work with local governments to adopt additional energy-efficiency policies and programs. Support local government energy efficiency program via best practices, model ordinances, and technical support. Work with partners to develop messaging to decrease electricity demand during peak times. ▪ **BL1: Green Buildings.** Collaborate with partners such as KyotoUSA to identify energy-related improvements and opportunities for on-site renewable energy systems in school districts; investigate funding strategies to implement upgrades. Identify barriers to effective local implementation of the CALGreen (Title 24) statewide building energy code; develop solutions to improve implementation/enforcement. Work with ABAG's BayREN program to make additional funding available for energy-related projects in the buildings sector. Engage with additional partners to target reducing emissions from specific types of buildings.	**Consistent.** The proposed project would be required to comply with and install energy efficient appliances and electrical accommodations giving individual homeowners the ability to have a solar system and/or electric vehicle charger consistent with the latest Title 24 California Energy Code and CALGreen Standards. The proposed residences would be all-electric, with no natural gas or propane plumbing installed as indicated by the applicant.
▪ **WR2: Support Water Conservation.** Develop a list of best practices that reduce water consumption and increase on-site water recycling in new and existing buildings; incorporate into local planning guidance.	**Consistent.** The proposed project would be required to comply with the water conservation standards of CALGreen that are in effect at the time of building permit issuance. Likewise, the project will be required to comply with the water efficiency standards of the North Marin Water District, including District Regulation No. 15 addressing water efficient landscaping and irrigation. Accordingly, the project would incorporate water-efficiency measures, including efficient water fixtures and climate adapted plantings.

Source: BAAQMD 2017

The project would begin construction in July 2026 and end in July 2029 for approximately 37 months. Construction-generated emissions associated with the proposed project were calculated using the California Emissions Estimator Model (CalEEMod), version 2022.1. BAAQMD does not have quantitative thresholds for fugitive dust emissions during construction. However, the proposed project would incorporate the Final EIR's Mitigation Measure AQ-1, which would reduce construction emissions, including fugitive dust. See Appendix A for more details on construction modeling. Estimated average daily construction-generated emissions for the proposed project are summarized in Table 3. As shown, unmitigated construction-related emissions would not exceed BAAQMD's thresholds. Unmitigated emissions are presented as they provide a conservative estimate, while mitigated emissions are used for the HRA analysis. Therefore, the proposed project would not result in new or more severe impacts related to exposure of sensitive receptors to construction generated air pollution beyond those identified in the Final EIR for the 2035 GPU.

Table 3 Project Construction Emissions

	Average Daily Emissions (pounds per day)					
Construction Year	**ROG**	**NOX**	**CO**	**SOX**	**PM_{10} (exhaust)**	**$PM_{2.5}$ (exhaust)**
2026	1	12	11	<1	<1	<1
2027	3	13	16	<1	1	<1
2028	5	8	12	<1	<1	<1
2029	2	4	7	<1	<1	<1
BAAQMD Thresholds	54	54	N/A	N/A	82	54
Threshold Exceeded?	**No**	**No**	**N/A**	**N/A**	**No**	**No**

Lbs./day = pounds per day; ROG = reactive organic gases; NO_X = nitrogen oxide; CO = carbon monoxide; PM_{10} = particulate matter with a diameter no more than 10 microns; $PM_{2.5}$ = particulate matter with a diameter no more than 2.5 microns; SO_X = sulfur oxide N/A = notapplicable (no BAAQMD threshold for CO or SOX); BAAQMD = Bay Area Air District.

Source: See Table 2.2 "Construction Emissions by Sector, Unmitigated" average daily emissions in the CalEEMod worksheets in Appendix A. Numbers may not add up due to rounding.

OPERATIONAL EMISSIONS

Operational emissions modeled include mobile and area source emissions. Mobile source emissions are generated by vehicle trips to and from the project site. The project would generate approximately 622 daily vehicle trips, based on W-Trans' Focused Trip Generation Study (W-Trans 2025). However, the proposed project is expected to result in 732 fewer daily vehicle trips compared to the 1,354 daily trips generated by the existing office building. The operational emissions are based on the total vehicle trips generated by the proposed project, rather than the net reduction in daily trips, which represents a conservative approach. The mobile trip generation rates were adjusted to reflect the Focused Trip Generation Study results. Area source emissions are generated by landscape maintenance equipment, consumer products and architectural coatings. The project would install all-electric appliances, eliminating onsite energy source emissions from natural gas. Therefore, energy source air quality emissions are excluded in this analysis. According to BAAQMD's 2022 CEQA Guidelines, since concurrent construction and operational emissions would occur, construction-related exhaust emissions should be combined with operational emissions for all phases where construction and operations overlap. Table 4 summarizes the maximum average daily construction emissions alongside the project's average daily operational emissions by emission source. As shown, project operational emissions would not exceed BAAQMD's regional thresholds. Therefore, the proposed project would not result in new or more

severe impacts related to exposure of sensitive receptors to operations generated air pollution beyond those identified in the Final EIR for the 2035 GPU.

Table 4 Project Operational Emissions

	ROG	NO_X	CO	PM_{10}	$PM_{2.5}$	SO_X
	Average Daily Emissions (pounds per day)					
Construction Emissions						
Average Daily Emissions	3	13	16	4	2	<1
Operational Emissions						
Mobile	2	1	14	4	1	<1
Area	5	<1	2	<1	1	<1
Overlap Project Emissions	10	14	32	8	4	<1
BAAQMD Thresholds	54	54	N/A	82	54	N/A
Threshold Exceeded?	**No**	**No**	**N/A**	**No**	**No**	**N/A**
	Annual Emissions (tons per year)					
Construction Emissions						
Annual Emissions	1	2	3	1	<1	<1
Operational Emissions						
Mobile	<1	<1	3	1	<1	<1
Area	1	<1	<1	<1	<1	<1
Overlap Project Emissions	2	2	6	2	<1	<!
BAAQMD Thresholds	10	10	N/A	15	10	N/A
Threshold Exceeded?	**No**	**No**	**N/A**	**No**	**No**	**N/A**

ROG = reactive organic gases; NO_x = nitrogen oxide; CO = carbon monoxide; PM_{10} = particulate matter with a diameter no more than 10 microns; $PM_{2.5}$ = particulate matter with a diameter no more than 2.5 microns; SO_x = sulfur oxide N/A = not applicable (no BAAQMD threshold for CO or SO_X); BAAQMD = Bay Area Air Quality Management District.

Source: Average daily and annual emissions. See Table 2.6 "Operations Emissions by Sector, Mitigated". See CalEEMod worksheets in Appendix A. Numbers may not add up due to rounding.

Carbon Monoxide Hotspots

A CO hotspot is a localized concentration of CO that is above a CO ambient air quality standard. Localized CO hotspots can occur at areas with high vehicle density, such as intersections with heavy peak hour traffic. A project's localized air quality impact is considered significant if CO concentrations exceed BAAQMD's one-hour standard of 20.0 parts per million (ppm) and eight-hour standard of 9.0 ppm (BAAQMD 2023b).

BAAQMD recommends comparing project's attributes with the following screening criteria as a first step to evaluating whether the project would result in the generation of carbon monoxide concentrations that would substantially contribute to an exceedance of the *Thresholds of Significance*. The project would result in a less than significant impact to localized carbon monoxide concentrations if:

1. The project is consistent with an applicable congestion management program for designated roads or highways, regional transportation plan, and local congestion management agency plans.
2. The project would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.

3. The project traffic would not increase traffic volumes at the affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage).

As discussed in the Focused Trip Generation Study, the project would result in a net decrease in vehicle trips compared to trips generated by existing land uses within the project site. Therefore, the project would not conflict with the Marin County Congestion Management Program. According to the Transportation Authority of Marin's traffic counts, the highest traffic volumes in Novato are approximately 18,868 daily vehicle trips and 1,398 peak a.m. vehicle trips (Transportation Authority of Marin 2025). Therefore, the project would not exceed the thresholds of 44,000 vehicles per hour or 24,000 vehicles per hour as outlined in screening criteria 2 and 3 above. Therefore, the project would result in a less than significant impact related to carbon monoxide concentrations.

Toxic Air Contaminants

CONSTRUCTION IMPACTS

Construction-related activities would result in temporary project-generated DPM exhaust emissions from off-road, heavy-duty diesel equipment for site preparation, grading, building construction, and other construction activities. DPM was identified as a TAC by CARB in 1998. As outlined in the Final EIR for the 2035 GPU, Mitigation Measure AQ-2 requires that projects generating TAC emissions within 1,000 feet of the sensitive receptors must prepare an HRA. Additionally, the project must identify and implement mitigation measures to reduce health risks for projects that may expose sensitive receptors to substantial pollutant concentrations. The nearest sensitive receptor is located approximately 170 feet southwest of the project site; therefore, an HRA was prepared to evaluate construction TAC impacts. Results of the analysis were compared to BAAQMD's individual project thresholds, which include a cancer risk threshold of 10 in one million persons, a chronic Hazard Index (HI) significance threshold of 1.0, and an ambient $PM_{2.5}$ concentration increase >0.3 micrograms per cubic meter ($\mu g/m^3$). Additionally, the results were compared to BAAQMD's cumulative project threshold, which include a cancer risk threshold of 100 in one million persons, a chronic HI significance threshold of 10.0, and an ambient $PM_{2.5}$ concentration increase >0.8 $\mu g/m^3$. Since DPM is not associated with acute health risks (Office of Environmental Health Hazard Assessments 2025), acute risk was not evaluated in this construction HRA. The detailed results of the construction HRA are provided in Appendix B and summarized below.

The maximum risk from construction of the proposed project was identified for all sensitive receptors within 1,000 feet of the project site boundary, as detailed in Appendix D of this Addendum. The maximum off-site sensitive receptor for project specific construction emissions would be exposed to a cancer risk of 16.16 in one million at one of the single family units southwest of the project site. In addition, the chronic risk at the maximum off-site sensitive receptor would be exposed to a HI of 0.014 and a $PM_{2.5}$ concentration of 0.026 $\mu g/m^3$. The maximum off-site sensitive receptor would exceed BAAQMD 10 in one million cancer risk threshold. Therefore, in accordance with the Final EIR Mitigation Measure AQ-2, which requires identifying and implementing measures for projects that exposure sensitive receptors to substantial pollutant concentrations, the proposed project would implement these project-specific reduction measures under Mitigation Measure AQ-2:

- All mobile off-road equipment (wheeled or tracked) used during construction activities shall meet the United States Environmental Protection Agency (USEPA) Tier 4 Final standards. Tier 4 Final certification can be for the original equipment or equipment that is retrofitted to meet the Tier 4 Final standards.

- Alternative fuel (natural gas, propane, electric, etc.) construction equipment shall be incorporated where available. These requirements shall be incorporated into the contract agreement with the construction contractor. A copy of the equipment's certification or model year specifications shall be available upon request for all equipment on-site.
- Electricity shall be supplied to the site from the existing power grid to support the electric construction equipment. If connection to the grid is determined to be infeasible for portions of the project, a non-diesel fueled generator shall be used.

With implementation of the project specific reduction measures, cancer risk at the maximum off-site sensitive receptor would be reduced to 2.22 in one million. In addition, the chronic risk at the maximum off-site sensitive receptor would be reduced to a HI of 0.002, and the $PM_{2.5}$ concentration would be reduced to 0.019 µg/m^3. These maximum cancer, chronic risk, and ambient $PM_{2.5}$ concentration estimates would not exceed the regulatory threshold of 10 in one million for cancer risk, HI of 1 for chronic risk, or an ambient $PM_{2.5}$ concentration increase >0.3 µg/m^3.

The maximum off-site sensitive receptor would be exposed to cumulative TAC emitting sources, such as roadway and rail sources. Nearby roadway sources include Highway 101, Wood Hollow Drive, and Redwood Boulevard. Rail sources include the Sonoma-Marin Area Rail Transit's Novato San Marin station along Highway 101, approximately 0.3 mile southeast of the project site. Cumulative sources details can be found in Appendix D of this Addendum. With the implementation of project-specific reduction measures, the maximum cumulative off-site sensitive receptor would be exposed to a cancer risk of 8.51 in one million, which is below the 100 in one million cancer risk cumulative threshold. In addition, maximum cumulative off-site sensitive receptor would be exposed with a cumulative chronic risk of 0.02, which is below the cumulative chronic HI of 10, and a cumulative $PM_{2.5}$ concentration of 0.16 µg/m^3, which is below the cumulative threshold of 0.8 µg/m^3. The maximally exposed cumulative receptor is approximately 825 feet northeast of the project site along Redwood Boulevard at the Verandah at Valley Oaks townhomes.

Therefore, the health risk to nearby residents due to cumulative impacts would be less than significant. Given that neither the cancer risk nor the chronic risk would exceed regulatory thresholds, individual and cumulative health risk from construction of the proposed project would not result in new or more severe impacts related to exposure of sensitive receptors to TAC beyond those identified in the Final EIR for the 2035 GPU.

OPERATIONAL IMPACTS

As outlined in the Final EIR for the 2035 GPU, Mitigation Measure AQ-2 requires that projects placing sensitive receptors within 1,000 feet of uses generating toxic air contaminants, such as roadways with volumes of 10,000 average annual daily trips or greater, must prepare an HRA. Additionally, the project must identify and implement mitigation measures to reduce health risks for projects that may expose sensitive receptors to substantial pollutant concentrations. The northern border of the project site is located approximately 800 feet west of Highway 101, which may pose a health risk for future project residents. Therefore, an HRA was prepared to evaluate roadway TAC impacts.

The maximum risk from operation of the proposed project was identified for all sensitive receptors onsite, as detailed in Appendix C of this Addendum. A residential receptor at the northern border of the project site would be exposed to the maximum cancer risk of 3.6 in one million. The 2022 California Energy Code Subchapter 7, Section 150(m) requires all new sensitive use structures constructed to install Minimum Efficiency Reporting Values (MERV) 13 air filters in the building

ventilation systems that would remove approximately 85 percent of particle sizes 1.0-3.0 microns[1] (i.e., $PM_{2.5}$) (USEPA 2024). Therefore, this analysis conservatively assumes that the installation of MERV-13 filters would remove at least 50 percent of the cancer risk, resulting in a cancer risk of 1.8 in one million at the maximum on-site receptor. The chronic risk at the maximum sensitive receptor would have a HI of 0.001. None of these operational cancer or chronic risk numbers would exceed the regulatory threshold of 10 in one million for cancer risk or a HI of 1 for chronic risk. Given that neither the cancer risk nor the chronic risk would exceed regulatory thresholds, the proposed project would not result in new or more severe impacts related to exposure of sensitive receptors to air pollution beyond those identified in the Final EIR for the 2035 GPU.

Odors

During construction activities, heavy equipment and vehicles would emit odors associated with vehicle and engine exhaust and during idling. However, these odors would be intermittent and temporary and would cease upon completion, and odors disperse with distance. In addition, the proposed project would implement the Final EIR's Mitigation Measure AQ-1, which aims to reduce construction air quality impacts by minimizing idling times and ensuring construction equipment is in proper working order.

Common sources of operational odor complaints include sewage treatment plants, landfills, recycling facilities, and agricultural uses. The proposed project would construct single-family housing and would not generate other emissions adversely affecting a substantial number of people (such as those leading to odors). Therefore, the proposed project would not result in any new or significantly increased impacts from other emissions (such as those leading to odors) beyond those analyzed in the Final EIR for the 2035 GPU.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to air quality, and no new mitigation measures are necessary. However, the following Final EIR mitigation measures would be required as a condition of project approval:

AQ-1 Construction Emissions Reduction

New discretionary projects in the Plan Area that exceed the construction screening criteria of the Bay Area Air Quality Management District (BAAQMD) shall be conditioned to reduce construction emissions of reactive organic gases, nitrogen oxides, and particulate matter (PM_{10} and $PM_{2.5}$) by implementing the BAAQMD's Basic Construction Mitigation Measures (described below) or equivalent, expanded, or modified measures based on project and site specific conditions.

Basic Construction Mitigation Measures

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day, with priority given to the use of recycled water for this activity when feasible.
2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.

[1] MERV-13 air filters would provide 85 percent indoor effectiveness. However, the potential for individuals to be outside on the project site reduces the overall effectiveness.

3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping shall be prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 mph.
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
6. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified visible emissions evaluator.
8. A publicly visible sign shall be posted with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

Final EIR Mitigation Measure AQ-2, which requires a project-specific HRA, has now been implemented through the project-specific HRAs attached as Appendices C and D.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information that indicates that impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of air quality is required.

5.3 Biological Resources

Final EIR Biological Resources Findings

The General Plan EIR determined that impacts to federally protected wetlands, local policies protecting biological resources, and habitat conservation plans/natural community conservation plans would be less than significant. The General Plan EIR found that mitigation measures for nesting bird surveys would reduce impacts to avian bird species to a less than significant level. The General Plan EIR found that General Plan 2035 did not require assessment of sensitive biological resources, but that with Mitigation Measures BIO-1 and BIO-2 to require biological studies, the impact would be reduced to a less than significant level. The General Plan EIR identified potentially significant impacts on avian bird species. However, implementation of Mitigation Measure BIO-4, which requires nesting bird surveys, avian impacts would be reduced to a less-than-significant level. Implementation of the 2035 GPU also had the potential to result in a significant impact on wildlife movement corridors; however, with the incorporation of Mitigation Measures BIO-5 and BIO-6, which adds preservation of important wildlife movement corridors to General Plan Policy ES 3 and require a biological assessment on parcels with indicators of wildlife movement corridors, this impact would be reduced to a less-than-significant level.

The General Plan EIR determined that the NMC and General Plan goals and policies were sufficient to protect trees and woodlands. NMC Section 19.39, Woodland and Tree Preservation, requires a tree inventory and Woodland Conservation and Management Plan, and contains standards for tree and forest retention and mitigation. General Plan 2035 contains Goal ES 4 to protect trees and woodlands, including encouraging and, where appropriate, requiring actions by private property owners to protect the health of native woodlands and trees. Additionally, Goal ES 4 includes updates to the woodland tree removal/replacement requirements of the Zoning Code to prioritize replacement planting of native species and to consider tradeoffs of requiring fewer but larger replacement trees based on site conditions.

Addendum Analysis

The General Plan goals and policies aim to focus new growth and development at infill locations, in part to protect biological resources. Policies and actions in the General Plan included as mitigation in the General Plan EIR would be implemented to reduce potential impacts to the greatest extent possible. Applicable policies and actions would be required with implementation of the proposed project.

The project is an infill redevelopment within one of the four focus areas identified in the EIR, the North, North Redwood Boulevard Corridor. The project's area of disturbance will be limited to the existing limits of development at the project site except for construction of a small concrete lined ditch on the northern edge of the site to convey stormwater runoff from the hill above as well as slope stabilization and grading along hilly areas adjacent to and upslope of the project site. The project also includes landscaping and stormwater bioretention basins. Since the site already contains paved areas and office space, the project would not create a substantial development footprint change from current conditions.

The site is largely developed but contains a narrow border of coast live oak woodland, most of which occurs along the north side of the property on a slope above existing development. A Tree Inventory Report (Appendix E) prepared by Monk & Associates in July 2024 identified 405 trees within the project site, 19 of which qualify as Heritage Trees under the City's Municipal Code. In accordance with Mitigation Measure BIO-2, Rincon conducted an updated literature review (CDFW 2025, CNPS 2025, Appendix F) and reconnaissance site survey on January 30, 2025 to document existing biological conditions and evaluate the project site for the potential for sensitive biological resources.

Because the site lacks native herbaceous communities, has been previously graded, paved, and landscaped, and only a small area outside the previous limits of disturbance will be graded for construction of a small concrete ditch, special status plants are not expected to occur within the project site (Appendix F). Furthermore, no special status species were observed during a Rincon-conducted site survey conducted in January 2025. Because of the developed nature of the site, level of disturbance due to human presence, and lack of special-status species specific habitat requirements (e.g., salt marsh, coniferous forest, vernal pool, large nest trees adjacent to open water, etc.) no special-status wildlife have more than a low potential to occur (Appendix F). No state or federally protected waters or wetlands, sensitive natural communities, or corridors for wildlife movement were observed within the project site. There are no adopted habitat conservation plans applicable to the project site.

Given the project would impact locally protected trees, the project will be required to comply with General Plan policies and NMC (Ord. No. 1576 § 2[Exh. A]), Chapter XVII Trees and Shrubs) and NMC Division 19.39 requirements related to tree preservation and replacement. Furthermore, the project

has the potential to impact nesting birds, therefore the project would also be required to comply with Mitigation Measure BIO-4 from the General Plan EIR, protecting nesting birds from project related disturbance through pre-construction nesting bird surveys and avoidance buffers, if necessary.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to biological resources, and no new mitigation measures are necessary. However, the following Final EIR mitigation measure would be required as a condition of project approval:

BIO-4 Nesting Bird Protection

All discretionary projects shall retain the services of a qualified biologist(s) to conduct a pre-construction nesting bird survey during the nesting season (February 1 through August 31) at most 14 days prior to any and all development that may remove trees or vegetation that may provide suitable nesting habitat for migratory birds or other special-status bird species. If nests are found the qualified biologist(s) shall identify and the project sponsor shall implement appropriate avoidance measures, such as fenced buffer areas or staged tree removal periods.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information that indicates that impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of biological resources is required.

5.4 Cultural Resources

Final EIR Cultural Resources Findings

The Final EIR determined that construction of development facilitated by the 2035 GPU could result in a substantial adverse change in the significance of historical, cultural, and paleontological resources, and impacts would be potentially significant. The Final EIR included Mitigation Measure CUL-1, Historical Resources Study Program; CUL-2, Archaeological Resources Study Program; and CUL-3, Paleontological Resource Studies, which require historical, archaeological, and paleontological evaluations for all discretionary projects facilitated by the 2035 GPU, respectively. The Final EIR concluded that impacts to historical, archaeological, and paleontological resources would be less than significant with implementation of Mitigation Measures CUL-1, CUL-2, and CUL-3.

The Final EIR determined that, with compliance with California Health and Safety Code Sections 7050.5, 7051, and 7054, the 2035 GPU would have less-than-significant impacts to human remains. The Final EIR concluded cumulative impacts to cultural resources in Marin County would be potentially significant, and that the 2035 GPU would have a considerable contribution to these impacts.

Addendum Analysis

Because the site contains existing development, has been previously graded, paved, and landscaped, and only a small area outside the previous limits of disturbance will be graded for construction of a small concrete ditch, historical, cultural, or paleontological resource are not expected to occur within the project site. However, the project would involve ground disturbing activities, which could result in the unearthing of unknown historical, cultural, or paleontological resources. The proposed project would be required to implement Mitigation Measures CUL-1 through CUL-3. The project shall be evaluated to determine its potential to impact historical, cultural, and paleontological resources, and if potential impacts are identified, recommendations to avoid or reduce impacts shall be implemented. With implementation of Mitigation Measures CUL-1 through CUL-3, impacts to cultural resources would be reduced to the extent feasible and would not result in increases impacts beyond those identified within the Final EIR. Overall, project impacts associated with cultural resources would be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to cultural resources, and no new mitigation measures are necessary. However, the following Final EIR mitigation measures would be required as a condition of project approval:

CUL-1 Historical Resources Study Program

All discretionary projects shall investigate the potential to impact historical resources. A historical resources evaluation shall be performed to confirm the presence of historical resources within the project site when there is a structure(s) or feature of a type, period, and/or method of construction that could be qualified as having historic status. The study shall, at a minimum, be conducted by a qualified professional meeting the Secretary of the Interior's (SOI) Professional Qualification Standard (PQS) for architectural history (NPS 1983). The study shall include a pedestrian survey of the project site and background research including a records search at the Northwest Information Center (NWIC), building permit research, and/or research with the local historical society(ies). The subject property(ies) and/or structures shall be evaluated for federal, state, and local designation on California Department of Parks and Recreation 523 series forms, included as an appendix to the study. If historical impacts are identified, the study shall include recommendations to avoid or reduce impacts on historical resources and the project sponsor shall implement the recommendations or conduct additional environmental review.

CUL-2 Archaeological Resources Study Program

All discretionary projects shall investigate the potential to disturb archaeological resources. If preliminary reconnaissance suggests that cultural resources may exist, a Phase I cultural resources study shall be performed by a qualified professional meeting the Secretary of the Interior's (SOI) Professional Qualification Standard (PQS) for archaeology (NPS 1983). A Phase I cultural resources study shall include a pedestrian survey of the project site and sufficient background research and, as necessary, field sampling to determine whether archaeological resources may be present. Archival research shall include a records search at the Northwest Information Center (NWIC) and a Sacred Lands File (SLF) search with the Native American Heritage Commission (NAHC), and coordination with Native American tribes listed by the NAHC. The Phase I technical report documenting the study shall include recommendations to avoid or reduce impacts on archaeological resources. The project sponsor shall implement the recommendations.

CUL-3 Paleontological Resource Studies

Avoidance and/or mitigation for potential impacts to paleontological resources shall be required for any discretionary development proposal in Novato that occurs within high sensitivity geologic units (Pleistocene alluvium [Qpa] and Pleistocene alluvium [Qoa] deposits), whether they are mapped at the surface or occur at the subsurface. When paleontological resources are uncovered during site excavation, grading, or construction activities, work on the site will be suspended until the significance of the fossils can be determined by a qualified paleontologist. If significant resources are determined to exist, the paleontologist shall make recommendations for protection or recovery of the resource.

The City shall require the following specific measures for projects that could disturb geologic units with high paleontological sensitivity:

- **Retain a Qualified Paleontologist to Prepare a PMMP.** Prior to initial ground disturbance, the project applicant shall retain a Qualified Paleontologist, as defined by the SVP (2010), to direct all mitigation measures related to paleontological resources and design a Paleontological Mitigation and Monitoring Program (PMMP) for the project. The PMMP shall include measures for a preconstruction survey, a training program for construction personnel, paleontological monitoring, fossil salvage, curation, and final reporting, as applicable.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information that indicates that impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of cultural resources is required.

5.5 Energy

Final EIR Energy Findings

The Final EIR discusses energy in Section 5.3 *Energy Effects*. The Final EIR concluded that the 2035 GPU would result in consumption of energy beyond current conditions but that policies included in the 2035 GPU, such as ES 25 and ES 26, would promote energy conservation and efficiency. Additionally, the goals and policies of the 2035 GPU are projected to reduce VMT in Novato by 12.6 percent from 2015 to 2040, thereby decreasing the overall demand for transportation fuels. The Final EIR also found that the 2035 GPU would be consistent with the City's 2009 Climate Action Plan (CAP), particularly through several energy efficiency and renewable energy policies included in the 2035 GPU. The Final EIR determined that construction and operation of the 2035 GPU would not result in potentially significant environmental effects due to the wasteful, inefficient, or unnecessary consumption of energy and this impact would be less than significant.

Addendum Analysis

Construction Energy Demand

The project would require demolition, site preparation, and grading, including pavement and asphalt installation; building construction; architectural coating; and hardscaping/landscaping. During project construction, energy would be consumed in the form of petroleum-based fuels used

to power off-road construction vehicles and equipment on the project site, construction worker travel to and from the project site, and vehicles used to deliver materials to the site. As shown in Table 5, project construction would require approximately 9,903 gallons of gasoline and approximately 150,285 gallons of diesel fuel. These construction energy estimates are conservative because they assume that the construction equipment used in each phase of construction is operating every day of construction.

Table 5 Estimated Fuel Consumption during Construction

	Fuel Consumption (gallons)	
Source	**Gasoline**	**Diesel**
Construction Equipment & Vendor	–	150,285
Construction Worker Vehicle Trips	9,903	–

See Appendix G for energy calculation sheets.

Energy use during construction would be temporary in nature, and construction equipment used would be typical of similar-sized construction projects in the region. In addition, construction contractors would be required to comply with the provisions of California Code of Regulations Title 13 Sections 2449 and 2485, which prohibit diesel-fueled commercial motor vehicles and off-road diesel vehicles from idling for more than five minutes and would minimize unnecessary fuel consumption. Construction equipment would be subject to the USEPA Construction Equipment Fuel Efficiency Standard, which would also minimize inefficient, wasteful, or unnecessary fuel consumption. Furthermore, per applicable regulatory requirements such as 2022 CALGreen, the project would comply with construction waste management practices to divert a minimum of 65 percent of construction debris. These practices would result in efficient use of energy necessary to construct the project. In the interest of cost-efficiency, construction contractors also would not utilize fuel in a manner that is wasteful or unnecessary. Therefore, the project would not result in any new or significantly increase impacts from construction energy consumption beyond those analyzed in the Final EIR for the 2035 GPU.

Operational Energy Demand

Operation of the project would contribute to regional energy demand by consuming electricity, gasoline and diesel fuels. Electricity would be used for heating and cooling systems, lighting, appliances, and water and wastewater conveyance, among other purposes. Gasoline and diesel consumption would be associated with vehicle trips generated by residents. As discussed in the Focused Trip Generation Study, the project would result in a net decrease in vehicle trips compared to trips generated by existing land uses within the project site (Appendix H). Additionally, the proposed project site would be within half a mile of a Marin Transit Route 49 bus stop and Sonoma Marin Area rail transit, potentially reducing reliance on motor vehicles and encouraging alternative modes of transportation.

In addition to transportation energy use, operation of the project would consume electricity for building heating and power, lighting, and water conveyance, among other operational requirements. Operational activity was screened out using BAAQMD's Operational Screening Table for Criteria Air Pollutants. Therefore, this analysis excludes operational energy consumption data. The screening criteria indicate that operational energy consumption would not be significant. In addition, the project would comply with all standards set in California Building Code (CBC) Title 24,

which would minimize the wasteful, inefficient, or unnecessary consumption of energy resources during operation**.** California's Green Building Standards Code (CALGreen; California Code of Regulations, Title 24, Part 11) requires implementation of energy efficient light fixtures and building materials into the design of new construction projects. The 2022 Building Energy Efficiency Standards (CBC Title 24, Part 6) requires newly constructed buildings to meet energy performance standards set by the Energy Commission. Additionally, in compliance with the latest Title 24 Building Energy Efficiency Standards, the project would install energy efficient appliances and electrical accommodations giving individual homeowners the ability to have a solar system and/or electric vehicle charger. The project would not utilize natural gas and would install all-electric appliances for the proposed residential uses. Therefore, operation of the proposed project would not result in any new or significantly increase impacts from operational energy consumption beyond those analyzed in the Final EIR for the 2035 GPU.

As previously stated, the proposed project would reduce mobile trips compared to existing conditions, install all-electric appliances, and incorporate solar ready and water conservation features consistent with single-family residential buildings, in accordance with the latest Title 24 Standards. Compliance with these regulations would avoid potential conflicts with adopted energy conservation plans. Therefore, the proposed project would result in no new impacts related to energy or impacts that would be substantially more severe than those discussed in the Final EIR for the 2035 GPU.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to energy, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information that indicates that impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of energy is required.

5.6 Geology and Soils

Final EIR Geology and Soils Findings

The Final EIR determined that development facilitated by the 2035 GPU could expose residents and employees to the effects of fault rupture, seismic ground shaking, and seismic-related ground failure such as landslide, lateral spreading, subsidence, liquefaction or collapse. The Final EIR discussed that future development would be required to comply with applicable seismic design standards and goals and policies of the 2035 GPU, which would reduce the risk of loss of life, personal injury, and property damage. With compliance with applicable building standards and 2035 GPU goals and policies, the Final EIR concluded that the 2035 GPU would have less-than-significant impacts related to fault rupture, ground shaking, and ground failure. The Final EIR also concluded that impacts related to the loss of topsoil and expansive soil would be less than significant with compliance with applicable building codes and regulations within the NMC.

The Final EIR determined that some new development facilitated by the 2035 GPU may require the use of septic systems or alternative wastewater disposal systems, which could result in significant effects to the environment. The Final EIR included Mitigation Measure GEO-1, Soil Investigation Report, which requires new development requiring the use of alternative wastewater systems to complete a soil investigation report prior to issuance of grading or building permits. The Final EIR concluded that impacts related to soils supporting alternative wastewater systems would be less than significant with implementation of Mitigation Measure GEO-1.

The Final EIR determined that cumulative development would gradually increase the region's population and increase the number of people exposed to potential geologic hazards. However, because cumulative development would be required to comply with applicable building codes and soil and stormwater regulations, the Final EIR determined that cumulative impacts would be less than significant and the 2035 GPU would not have a considerable contribution to these impacts.

Addendum Analysis

The following analysis incorporates information from the Preliminary Geotechnical Exploration prepared for the project by ENGEO Incorporated in August 2024, which is included as Appendix I. Pursuant to NMC Section 4-1, the City of Novato adopted and incorporated the California Building Code. Section 1803.1.1.3 of the CBC states that the building department of each locality (in this case the Novato Building Division) must approve the soil investigation if it determines that the recommended action is likely to prevent structural damage in each dwelling. Further, as a condition of the building permit, the approved recommended action must be incorporated in the construction of each dwelling. Therefore, pursuant to the NMC and the CBC, the recommendations included in the Preliminary Geotechnical Exploration (Appendix I) and additional geotechnical investigations would be incorporated into the design of the project and verified by the City prior to issuance of a building permit.

The project site does not overlie a fault zone, but is proximate to the Rodgers Creek Fault Zone, which lies approximately seven miles east of the project site, and the San Andreas Fault Zone, which lies approximately 13 miles west of the project site (California Geological Survey 2025). As discussed in the Final EIR, proximity to fault zones increases the risk of seismic hazards. The project would be required to comply with the current iteration of the CBC, which requires buildings to be engineered to resist minor earthquakes without damage, resist moderate earthquakes without structural damage, and resist major earthquakes without collapse. Compliance with the CBC would reduce potential hazards associated with seismic ground shaking to the extent feasible and impacts would be less than significant.

The Preliminary Geotechnical Exploration identified that hilly areas adjacent to and upslope of the project site are susceptible to debris flows and landslides and provides recommended slope stabilization and grading methods for project construction (Appendix I). The project intends to generally avoid construction in hilly areas, but in any event, recommendations included in the final geotechnical report for the proposed project would be incorporated into project design pursuant to CBC section 1803.1.1.3, and the risk of landslides would be reduced to the extent feasible. The Preliminary Geotechnical Exploration determined that the risk of liquefaction and lateral spreading at the project site is negligible (Appendix I). Accordingly, impacts related to landslides, liquefaction, lateral spreading, and ground failure would be less than significant.

As described further in Section 5.8, *Hydrology and Water Quality,* the project site is greater than one acre and would be subject to the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance

Activities (Order No. 2022-0057-DWQ) adopted by the State Water Resources Control Board (SWRCB). Compliance with the NPDES permit requires each qualifying development project to file a Notice of Intent with the SWRCB. Permit conditions require the development of a stormwater pollution prevention plan (SWPPP), which must describe the site, the facility, erosion and sediment controls, runoff water quality monitoring, means of waste disposal, implementation of approved local plans, control of construction sediment and erosion control measures, maintenance responsibilities, and non-stormwater management controls. Inspection of construction sites before and after storms is also required to identify stormwater discharge from the construction activity and to identify and implement erosion controls, where necessary. Compliance with the Construction General Permit is reinforced through Chapter 7-4 of the NMC, *Urban Runoff Pollution Prevention.* In addition, as discussed further in Section 5.8, *Hydrology and Water Quality,* the Stormwater Control Plan prepared for the project includes recommendations and measures for runoff and stormwater control, which would further reduce the potential for soil erosion. Compliance with the Construction General Permit, NMC, and stormwater control measures would ensure that the project would not result in substantial soil erosion or the loss of topsoil. Impacts would be less than significant.

The Preliminary Geotechnical Exploration determined soils at the project site have moderate expansion potential (Appendix I). The Preliminary Geotechnical Exploration includes recommendations for grading and recompaction of soil during construction and for types of foundations for the proposed residences, that would reduce the risks associated with expansive soils to the extent feasible. As discussed previously, recommendations included in the final geotechnical report for the proposed project would be incorporated into project design pursuant to CBC Section 1803.1.1.3, and the risk of expansive soils would be reduced to the extent feasible. Accordingly, impacts related to expansive soils would be less than significant.

The proposed project would involve installation of sewer lines and connection to existing sewer mains. Accordingly, the project would not involve use of a septic system or alternative wastewater systems, and there would be no impact. Mitigation Measure GEO-1 of the Final EIR would not be required. Overall, with compliance with the CBC, NMC, and the recommendations made within the Preliminary Geotechnical Exploration, the proposed project would have less than significant impacts associated with geology and soils.

Overall, project impacts associated with geology and soils would be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to geology and soils, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information indicating impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of geology and soils is required.

5.7 Greenhouse Gas Emissions

Final EIR Greenhouse Gas Emissions Findings

GHG emissions for the 2035 GPU are discussed in Section 4.6, *Greenhouse Gas,* of the Final EIR. The Final EIR determined that implementing the 2035 GPU would not generate GHG emissions exceeding the 2035 GHG efficiency threshold, ensuring a fair share of statewide GHG reductions necessary to meet post-2020 SB 32 targets. The Final EIR utilized CARB's statewide GHG emissions targets for 2030 and 2050 to develop the 2035 efficiency threshold. Based on the State's 2035 emissions goal and service population, the 2035 GPU must meet a target of approximately 2.38 metric tons of carbon dioxide equivalent (MT of CO_2e) per year. Estimated GHG emissions associated with operation of the 2035 GPU are presented in Table 4.6-2 of the Final EIR. As shown therein, annual operational emissions would be approximately 191,003 MT of CO_2e year, or 2.29 MT of CO_2e per service population per year in 2035. The Final EIR determined that GHG emissions would not exceed the 2035 GHG efficiency threshold and impacts would be less than significant.

The Final EIR evaluated the 2035 GPU for consistency with City of Novato CAP and the Association of Bay Area Governments (ABAG) Metropolitan Transportation Commission (MTC)'s Plan Bay Area 2040. As detailed in Table 4.6-3 of the Final EIR, the 2035 GPU would be consistent with the CAP's GHG reduction goals through measures such as energy and water conservation, on-site energy production, and reducing transportation emissions by enhancing the circulation system. The Final EIR determined 2035 GPU would not conflict with plans, policies, and regulations adopted to reduce greenhouse gases and impacts would be less than significant. Additionally, the Final EIR determined that implementation of the 2035 GPU would not have a cumulatively considerable contribution to cumulative GHG emissions and climate change impacts.

Addendum Analysis

Several plans have been adopted to reduce GHG emissions in Novato and at the State level, including the CARB's 2022 Scoping Plan and BAAQMD's 2022 CEQA Guidelines. BAAQMD's 2022 CEQA Guidelines recommend using the approach endorsed by the California Supreme Court in *Center for Biological Diversity v. Department of Fish & Wildlife* (2015) (62 Cal.4th 204), which evaluates a project based on its effect on California's efforts to meet the State's long-term climate goals. If a project contributes its 'fair share' of what is required to achieve those long-term climate goals, a reviewing agency can determine that the impact will not be significant, as the project will help address global climate change.

The analysis evaluates its 'fair share' through part A of the BAAQMD guidance by ensuring that projects incorporate essential design elements, which aligns with the 2022 Scoping Plan's goal of carbon neutrality by 2045. Therefore, using BAAQMD's updated thresholds enables us to conclude that the impacts are less than significant while maintaining consistency with the Final EIR, without the need for additional numerical calculations.

The project would be consistent with BAAQMD criteria for buildings since it would include an all-electric building that does not include natural gas appliances or plumbing. The project would comply with the CARB In-Use Off-Road Diesel-Fueled Fleets Regulation during construction, which imposes limits on idling and restricts the use of older vehicles; this would reduce fuel consumption and lead to the use of fuel-efficient vehicles on the construction site. Construction equipment would also be maintained to applicable standards, and construction activity and associated fuel consumption and energy use would be temporary and typical for construction sites. Therefore, the project would not

result in wasteful or unnecessary energy consumption during construction and operation or conflict with existing energy standards and regulations and would be consistent with the BAAQMD building thresholds.

As detailed in the project's Focused Trip Generation Study prepared by W-Trans (Appendix H), the project is expected to result in a net decrease of 732 daily trips, 10,587 VMT, and 5.37 mile trip length compared to the current office building. Therefore, the net reduction of VMT would result in less VMT per capita for the proposed project, making it consistent with BAAQMD's VMT goal of 15 percent threshold below the existing VMT per capita for residential projects. In addition, the project would comply with the latest CALGreen Tier 1 electric vehicle requirements for single-family land uses. Therefore, the project would be consistent with BAAQMD's transportation GHG thresholds. In addition, the project would incorporate solar features consistent with the provisions in the 2022 Building Energy Efficiency Standards for single family residential buildings. The project would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases and impacts would be less than significant, consistent with the findings of the Final EIR for the 2035 GPU. Additionally, GHG emissions from project operations were screened out, consistent with BAAQMD's operational screening criteria and ensuring GHG impacts are less than significant. Furthermore, mobile emissions generally contribute to the majority of GHG emissions, and the proposed project is expected to result in a net reduction in GHG emissions compared to existing conditions. Therefore, along with the design features outlined above, the project's GHG emissions are expected to be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to greenhouse gas emissions, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information that indicates that impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of greenhouse gas emissions is required.

5.8 Hazards and Hazardous Materials

Final EIR Hazards and Hazardous Materials Findings

The Final EIR determined that development facilitated by the 2035 GPU, in particular biotechnology and research and development uses, could increase the amount of hazardous materials transported and stored throughout the city. The Final EIR concluded that new development facilitated by the 2035 GPU would be required to comply with existing regulations, standards, and guidelines established by the United States Environmental Protection Agency, the state, Marin County, and City of Novato related to storage, use, and disposal of hazardous materials, and impacts related to the routine transport, use, or disposal of hazardous materials would be less than significant.

The Final EIR found that development facilitated by the 2035 GPU could result in hazardous emissions within one-quarter mile of schools. While the exact quantity and sources of potential emissions could not be known because exact future development is unknown, the Final EIR

determined that compliance with relevant regulations such as the California Education Code and California Fire Code would minimize risks. The Final EIR concluded that impacts related to hazardous emissions near schools would be less than significant.

The Final EIR identified 25 sites within the city that are included on a list of hazardous materials sites. The Final EIR determined that development facilitated by the 2035 GPU on these sites would require remediation under the oversight of the applicable regulatory agency, such as the California Department of Toxic Substances Control or the Regional Water Quality Control Board, prior to the initiation of new construction activities. With compliance with existing state and local regulations, as well as implementation of 2035 GPU policies, the Final EIR concluded that impacts related to development on sites included on a list of hazardous materials sites would be less than significant.

There are no airports within Novato; however, the Gnoss Field-Marin County Airport is located one mile north of the city and the northern and central portions of the city are located within the airport's area of influence. With compliance with 2035 GPU policies, the Final EIR concluded impacts related to airport hazards would be less than significant. In addition, the Final EIR determined that development facilitated by the 2035 GPU would be required to conform with 2035 GPU policies pertaining to emergency access, and new development would be reviewed by the Novato Fire Prevention District to ensure adequate emergency access. The Final EIR concluded that impacts related to emergency access would be less than significant.

The Final EIR determined that development facilitated by the 2035 GPU could be located in areas susceptible to wildfire. The Final EIR found that most development facilitated by the 2035 GPU would occur in urbanized areas, which have a reduced wildfire risk, and compliance with 2035 GPU policies pertaining to emergency access and wildfire prevention would reduce the risk of wildfire at new development within Wildland-Urban Interface areas. The Final EIR concluded that impacts related to wildland fires would be less than significant.

The Final EIR found that implementation of safety and hazards policies contained in the 2035 GPU and compliance with existing laws and regulations would reduce cumulative hazards and hazardous materials. While the 2035 GPU would have an incremental contribution to cumulative hazards and hazardous materials impacts, the Final EIR concluded that cumulative impacts would be less than significant.

Addendum Analysis

The following analysis incorporates information from the Phase I Environmental Site Assessment (ESA) prepared for the project by Tetra Tech, Inc in June 2015. The ESA is included as Appendix J. The ESA did not identify any environmental conditions in connection with the site that contribute to hazards (Appendix J).

The project would result in the construction and operation of a new residential development. Project construction would include the temporary transport, storage, use, or disposal of potentially hazardous materials including fuels, lubricating fluids, cleaners, and solvents. If spilled, these substances could pose a risk to the environment and to human health. However, as discussed in the Final EIR, the transport, storage, use, or disposal of hazardous materials is subject to various federal, state, and local regulations designed to reduce risks associated with hazardous materials, including potential risks associated with upset or accident conditions. Such regulation includes U.S. Department of Transportation regulations (Hazardous Materials Transport Act, 49 Code of Federal Regulations), Resources Conservation and Recovery Act, Hazardous Waste Control Law (California Health and Safety Code Division 20, Chapter 6.5), and the Hazardous Waste Control Regulations

(Title 22, California Code of Regulations, Divisions 4 and 4.5). Compliance with applicable laws and regulations would reduce potential impacts related to the transport, storage, use, or disposal of hazardous materials during project construction. In operation, the proposed residences would not require the routine use, transport, and disposal of hazardous materials. The project site is not within 0.25 mile of a school and would not involve the emission of acutely hazardous materials or substances. Accordingly, impacts related to the use, transport, storage, and disposal of hazardous materials and the release of hazardous materials would be less than significant.

A search of Cortese List data resources, including the California Department of Toxic Substances Control EnviroStor database, the SWRCB GeoTracker database, and the California Environmental Protection Agency list of hazardous materials sites was conducted in February 2025 to determine if the project site is located on a hazardous materials site pursuant to Government Code Section 65962.5. The project site is not located on a hazardous materials site (California Department of Toxic Substances Control 2025; SWRCB 2025a; California Environmental Protection Agency 2025). The project site is adjacent to an inactive hazardous materials site, identified as Fireman's Fund Insurance, which is located southwest of the project site along Wood Hollow Drive (Case No. T0604100050; SWRCB 2025b). That site previously contained leaking underground diesel storage tanks, which was associated with contaminated groundwater. The leaking underground storage tanks have been removed from the site and the site's status is listed as "completed – case closed" as of January 1998, indicating corrective action has been taken. The ESA determined this site is not considered to be of environmental concern to the proposed project (Appendix J). Accordingly, the site is not located on a hazardous materials site and impacts would be less than significant.

The project site is located in the Overflight Zone of the Gnoss Field-Marin County Airport Land Use Compatibility Plan, which is an area associated with aircraft ascent and descent but has minimal aircraft hazard risk. The project site is located outside of the airport's noise contours (Marin County Airport Land Use Commission 1991). Therefore, the project would not result in a safety hazard or excessive noise for people residing or working in the project area, and impacts would be less than significant.

Construction of the project would require installation of water and sewer lines, which may require a partial closure of Wood Hollow Drive. Road closures would be temporary, and barriers and flaggers would direct traffic around the closed lane of Wood Hollow Drive. Accordingly, the project would not impair implementation of or physically interfere with an adopted emergency response or emergency evacuation plan and impacts would be less than significant.

The project site is not located within a Fire Hazard Severity Zone (FHSZ; California Department of Forestry and Fire Protection 2024). Because the project site is not located in or near state responsibility areas or lands classified as Very High Fire Hazard Severity Zones, the project would not result in wildfire impacts. No impact would occur.

Overall, project impacts associated with hazards and hazardous materials would be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to hazards and hazardous materials, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information that indicates that impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of hazards and hazardous materials is required.

5.9 Hydrology and Water Quality

Final EIR Hydrology and Water Quality Findings

The Final EIR found that development facilitated by the 2035 GPU could involve grading, excavation, and other ground-disturbing activities which could result in soil erosion or water quality degradation. Development would be required to comply with the National Pollutant Discharge Elimination System (NPDES) general permit, Marin County's Stormwater Pollution Prevention Plan, the City's grading ordinance, and other regulations that require erosion control best management and pollution prevention practices. With compliance with existing regulations and 2035 GPU policies, the Final EIR determined that impacts related to water quality would be less than significant.

The Final EIR determined that the 2035 GPU would result in a net increase of approximately 4.7 million square feet of commercial, industrial, and office uses, and around 930 new residential units by 2035.This development would primarily be infill, which would minimize the conversion of undeveloped areas into impervious surfaces. Further, the Final EIR found that the total new impervious surface area associated with development facilitated by the 2035 GPU would be less than one percent of the Novato Valley Basin recharge area, and development would not substantially increase the amount of impervious surfaces in the Novato Valley Basin. The Final EIR also determined that compliance with the State Water Resources Control Board's Phase II General Permit and 2035 GPU policies would ensure proper site design measures and Low Impact Development standards to reduce runoff and maximize groundwater infiltration. Finally, the Final EIR identified that Novato does not use groundwater for municipal water supply, and new development would not require groundwater for water supply and would not substantially deplete groundwater supplies. The Final EIR concluded that impacts related to groundwater supply and recharge would be less than significant.

The Final EIR determined that development facilitated by the 2035 GPU would involve construction activities like stockpiling, grading, excavation, and paving, which could alter drainage patterns and increase soil erosion. The Final EIR found that compliance with the City's grading ordinance, the NPDES Construction General Permit, and the City's Urban Runoff Pollution Prevention Ordinance would require erosion control measures and best management practices to manage disturbed soils and prevent sediment transport. The Final EIR also found that compliance with 2035 GPU policies related to stormwater drainage would minimize stormwater runoff from future development sites and would facilitate maintenance of municipal stormwater systems.

The Final EIR determined that relatively small areas in Novato, including areas adjacent to Novato Creek and Arroyo San Jose, are subject to flooding from a 100-year storm and are designated as Special Flood Hazard Areas. The Final EIR determined the City's stormwater system is currently adequate, and improvements will concurrently occur with new development under the 2035 GPU. Future development in 100-year flood hazard areas must comply with the Novato Municipal Code,

and the Final EIR concluded that compliance with the California Building Code, Novato Municipal Code, and 2035 GPU policies would further reduce flood risks. The Final EIR determined that impacts related to flooding would be less than significant.

The Final EIR determined that cumulative impacts related to hydrology and water quality would be less than significant.

Addendum Analysis

Construction of the proposed project would involve excavation activities that could result in erosion and sedimentation that could substantially degrade surface or groundwater quality. As mentioned in Section 5.5, *Geology and Soils,* the project site is greater than one acre and would be subject to the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2022-0057-DWQ) adopted by the SWRCB. Compliance with the NPDES permit requires each qualifying development project to file a Notice of Intent with the SWRCB. Permit conditions require the development of a SWPPP, which must describe the site, the project, erosion and sediment controls, runoff water quality monitoring, means of waste disposal, implementation of approved local plans, control of construction sediment and erosion control measures, maintenance responsibilities, and non-stormwater management controls. Inspection of construction sites before and after storms is also required to identify stormwater discharge from the construction activity and to identify and implement erosion controls, where necessary. The project applicant would be required to submit the SWPPP to the City for approval and to the SWRCB's Stormwater Multiple Application and Report Tracking System. With compliance with these existing policies and regulations, the proposed project would not result in violations to water quality standards or waste discharge requirements, and would not otherwise substantially degrade surface or groundwater quality. Impacts would be less than significant.

The Final EIR includes an analysis of water supply and estimated water demand for projects associated with envisioned land uses in the 2035 GPU. The project site is currently designated for business and professional office use, and the project would involve changing the site's use to residential uses. To determine the water demand of the proposed project compared to current land uses on the project site, this analysis uses the same approach as the Final EIR which utilized the water demand calculations based on sewage generation factors developed by the City of Los Angeles (City of Los Angeles 2006). Sewage generation projections were then multiplied by a water demand factor of 1.1 to calculate the original water demand. This is a commonly used approach to estimate water supply demands. Table 6 shows the estimated water demand of the current office land uses compared to the projected water demand of residential uses under the proposed project.

Table 6 Projected Total Water Demand Compared to Existing Land Uses

Account Type	Proposed Project Growth Forecast	Sewage Generation Factor	Projected Water Demand (gpd)	Projected Water Demand (AFY)
Office	140,805 square feet	150 gpd/1,000 sq. ft	23,233	26
Single Family Residential	66 units	180 gpd/unit	13,068	14
Net difference under proposed project			**-10,165**	**-12**

gpd = gallons per day; AFY = acre-feet per year

Note: Sewage generation projections were all multiplied by a water demand factor of 1.1 to calculate the original water demand.

Source for water demand factors used in calculations: City of Los Angeles 2006

As shown in Table 6, the proposed project would result in a net decrease in water demand of approximately 10,165 gallons per day or 12 acre-feet per year. So while the proposed project would involve different land uses at the project site than what was originally envisioned in the 2035 GPU, it would result in reduced impacts to water supply compared to existing land uses on the project site. Furthermore, the project would facilitate the development of residential uses, which is consistent with development envisioned by the 2035 GPU and accounted for in its water supply analysis. Therefore, the water demand associated with the proposed project has been accounted for in water supply estimates in the Final EIR.

Additionally, the project would result in a net decrease in impervious surface area within the project site, and stormwater and irrigation runoff generated by the project would be collected and directed to onsite bioretention areas. Treated stormwater would then be discharged to drain into existing City storm drain facilities on Wood Hollow Drive and Meadow Crest Road. Therefore, the project would not substantially alter the drainage pattern of the project site. Impacts would be less than significant.

The project site is not within a flood hazard zone (Federal Emergency Management Agency 2016). The project would not risk substantial release of pollutants due to project inundation and would not impede or redirect flood flows. In addition, the project site is not proximate to a water body and would not be subject to seiche or tsunami. Impacts would be less than significant.

Although not discussed in the Final EIR, the project would not conflict with or obstruct implementation of a groundwater management plan. As discussed in the Final EIR, Novato does not use groundwater for municipal water supply, and new development would not require groundwater for water supply and would not substantially deplete groundwater supplies. Impacts would be less than significant.

Overall, impacts related to hydrology and water quality would be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to hydrology and water quality, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information that indicates that impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of hydrology and water quality is required.

5.10 Land Use and Planning

Final EIR Land Use and Planning Findings

The Final EIR determined that the 2035 GPU would not physically divide established communities in Novato, and 2035 GPU policies would facilitate orderly development that enhances connectivity. The Final EIR evaluated regionally and locally adopted land use plans, policies, and regulations applicable to the 2035 GPU, including the Association of Bay Area Governments' (ABAG) Plan Bay Area 2040, and determined that the 2035 GPU would be consistent with applicable plans and

policies that intend to avoid or mitigate an environmental effect. The Final EIR concluded that impacts to land use and planning would be less than significant, and that cumulative impacts would be less than significant.

Addendum Analysis

The project would not physically divide an established community. The project site is one contiguous parcel, and there are currently no means of access across the project site. The project would not impair mobility or close an existing street. For these reasons, the project would not physically divide an established community and there would be no impact.

The proposed project does not include rezoning the project site or changes to the General Plan land use designation of the site. While the project's inconsistency with the permitted use and density of the Business and Professional Office land use designation and the Planned District zoning designation may be considered a conflict with the 2035 GPU and NMC, CEQA first considers whether such use and density standards have the purpose of avoiding or mitigating a physical environmental effect, which they do not in this case. CEQA next considers whether the conflict would cause a significant environmental impact. As discussed in other sections of this Addendum, the project would not cause such impacts due to its conflict with the permitted land use and development intensity (floor area ratio) applicable to the site. As such, the proposed project would not conflict with applicable land use plans, policies, or regulations adopted for the purpose of avoiding or mitigating an environmental effect, and impacts would be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to land use and planning, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information that indicates that impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of land use and planning is required.

5.11 Noise

Final EIR Noise Findings

The Final EIR discusses noise in Section 4.10, *Noise.* The Final EIR concluded that the 2035 GPU would result in impacts to ambient noise and ground borne vibration which would be mitigated to a less than significant level with implementation of Mitigation Measures N-1 and N-2. The Final EIR concluded that implementing Program NS 1 in the 2035 GPU would ensure stationary operational noise impacts remain less than significant. Implementing Programs NS 1c, NS 4a, and NS 4b would ensure mobile operational noise impacts are less than significant. For airport noise impacts, implementing Program NS 1c would maintain aircraft related noise at a less than significant level. Additionally, the implementation of all noise policies and actions of the 2035 GPU would ensure cumulative noise impacts remain less than significant.

Addendum Analysis

The GPU 2035 goals and policies support reduction of noise-related impacts. Policies and actions in GPU 2035 included as mitigation in the Final EIR are implemented to help reduce noise-related impacts to the greatest extent possible. These policies and actions would be required with implementation of the project.

Construction Noise

The Final EIR identified less-than-significant impacts with mitigation concerning construction noise that would exceed ambient noise levels and may temporarily disturb people at neighboring properties. Implementation of Mitigation Measure N-1 from the General Plan EIR would be required to reduce noise during construction to reduce noise levels at nearby noise receptors.

The closest sensitive noise receptors to the project are the single-family residences located on Woodgate Place, located approximately 390 feet west of the center of the project site[2], and the single-family residence located approximately 490 feet west of the center of the proposed Project at 400 Wood Hollow Drive. The project site is currently developed with an existing office building. The construction phase with the highest noise would occur during demolition activities. Noise levels during demolition activities could be up to 85 dBA L_{eq} at 50 feet (FTA 2018), which would attenuate to approximately 67 dBA L_{eq} or below at a distance of 390 feet from the center of construction activity to the nearest off-site residences.

The project demolition and construction phases would be subject to complying with the standard construction hours detailed in NMC Section 19.22.070.B.4, which allows for construction activities, inclusive of demolition work, Monday through Friday between 7:00 a.m. to 6:00 p.m. and Saturday between 10:00 a.m. to 5:00 p.m. Project construction activities would only occur during these allowed days and times. If construction is necessary outside of these allowable days and times, authorization would need to be granted by Community Development Director pursuant to NMC Section 19.22.070.B.4. In addition, in accordance with the Final EIR, the project would implement Mitigation Measure N-1, which would include measures to minimize construction noise for mufflers, stationary equipment, staging areas, and back-up alarms, which would further reduce construction noise levels. Therefore, the project would not result in any new or significantly increased impacts from construction noise beyond those analyzed in the Final EIR for the 2035 GPU.

Operational Noise

Two types of noise impacts could occur during operation of the proposed project: (1) mobile-source noise from vehicles traveling to and from the project (from visitors and deliveries) and (2) stationary-source noise from people and equipment on the project site. Based on the program-level traffic noise analysis conducted for the Final EIR, with implementation of GPU 2035 policies and regulations in Programs NS 1c, NS 3, NS 4a, NS 4b, increases in roadway and rail noise in the Plan Area, including the North, North Redwood focus area, would be reduced to a less than significant level. Implementation of the above policies and regulations would ensure that noise impacts are considered as individual development projects are proposed and that various noise reduction techniques are considered for noise abatement.

[2] Construction equipment is typically dispersed in various areas of a site, with only a limited amount of equipment operating near a given location at a particular time. For this reason, the FTA's Transit Noise and Vibration Impact Assessment document (page 177) recommends to “assume that all equipment operates at the center of the project.” Therefore, it is standard industry practice to analyze average construction noise from the center of the project site, which represents the approximate center of where noise would be generated because equipment moves around the project site throughout the workday.

Traffic noise increases associated with the operation of the proposed project are expected to be lower because the number of vehicle trips generated by the project would be less than the existing office use that was presumed in the Final EIR. Therefore, the proposed project would not result in any new significant impacts or a substantial increase in the severity of a previously identified significant impact.

Regarding operational stationary noise sources, according to the site plans provided by Carlson, Barbee & Gibson Civil Engineers (CBG 2025), the primary on-site operational noise source from the project would be a ground-mounted HVAC unit behind each proposed residential building. This analysis assumes the use of a typical Carrier 24ANB7 2.5-ton HVAC unit for residential uses (see Appendix K for manufacturer's specifications); each unit would have a sound power level of 72 dBA, equivalent to a sound pressure level (SPL) of 64 dBA at 3 feet.

Per Novato Municipal Code Section 19.22.070, project impacts would be significant if the project's operational noise creates exterior noise levels that exceed 60 dBA during daytime hours of 6:00 a.m. – 10:00 p.m. or 45 dBA during nighttime hours of 10:00 p.m. – 6:00 a.m. at a residential property line. The ground-mounted HVAC units would be located as close as 230 feet from the nearest residential property line to the west of the project site. Noise levels generated by one ground-mounted HVAC would be approximately 26 dBA L_{eq} at 230 feet, which would not exceed the daytime exterior noise standard of 60 dBA or the nighttime exterior noise standards of 45 dBA for residential properties. Therefore, impacts related to HVAC equipment noise would be less than significant.

In addition to mechanical equipment, the project would generate noise from people gathering in common areas. Typically, a conversation between two people using a normal voice (not raised) at a distance of three feet is 60 dBA (Engineering ToolBox 2005). No amplified sound is proposed as part of project operations, and speech from conversations would quickly dissipate and would not interfere with surrounding outdoor activities and noise-sensitive uses. Furthermore, Public Resources Code section 21085 (enacted by per Assembly Bill 1307 (2023)), the effect of noise generated by residential project occupants and their guests is not a significant effect on the environment. Therefore, the proposed project would not result in any new significant impacts or a substantial increase in the severity of a previously identified significant impact.

Groundborne Vibration

The Final EIR identified less-than-significant impacts with mitigation from groundborne vibration levels associated with construction. Implementation of Mitigation Measure N-2 from the Final EIR would be required to reduce vibration during construction to reduce vibration levels at nearby noise receptors.

The greatest vibratory source during construction in the project vicinity would be a large bulldozer used during demolition, site preparation, and grading, and a vibratory roller during paving. Vibration generated by construction equipment has the potential to damage or annoy nearby receptors. The closest vibration sensitive receptors to the project would be the single-family residence to the west that has the potential to disturb an area where people sleep. The construction equipment with the highest vibration level would be a vibratory roller. A vibratory roller creates a vibration level of approximately 94 VdB at a distance of 25 feet (FTA 2018). At a distance of 270 feet from the center of the nearest proposed on-site road to the nearest residential building to the west[3], vibration levels would attenuate to 63 VdB, which is lower than the FTA threshold of 72 VdB for residential

[3] According to the FTA, vibration annoyance is typically measured from the center of a work site to ensure a consistent reference point for evaluating the impact on surrounding areas. This helps in accurately assessing the intensity and potential annoyance caused by vibrations to nearby residents and structures

structures where people sleep. Therefore, the proposed project would not result in new significant impacts or a substantial increase in the severity of a previously identified significant impact.

Airport Noise

The Final EIR identified less-than-significant impacts from airport noise. The Gnoss Field Airport is located approximately 1.1 miles to the northeast of the project site. According to the General Plan 2035 and Gnoss Field Airport Land Use Plan (MCALUP 1991), residential development included in the proposed project should not be located within the 60 dBA CNEL contour included in the Airport Land Use Plan. Because the project is located outside of the airport's noise contours, the proposed project would not expose future residents to any new significant noise impacts or a substantial increase in the severity of a previously identified significant impact.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to noise, and no new mitigation measures are necessary. However, the following Final EIR mitigation measures would be required as a condition of project approval:

N-1 Construction Noise Reduction Measures

The following measures to minimize exposure to construction noise shall be included as standard conditions of approval for applicable projects involving construction:

1. *Mufflers*. During excavation and grading construction phases, all construction equipment, fixed or mobile, shall be operated with closed engine doors and shall be equipped with properly operating and maintained mufflers consistent with manufacturers' standards.
2. *Stationary Equipment*. All stationary construction equipment shall be placed so that emitted noise is directed away from the nearest sensitive receptors.
3. *Equipment Staging Areas*. Equipment staging shall be located in areas that will create the greatest distance feasible between construction-related noise sources and noise-sensitive receptors.
4. *Smart Back-up Alarms*. Mobile construction equipment shall have smart back-up alarms that automatically adjust the sound level of the alarm in response to ambient noise levels. Alternatively, back-up alarms shall be disabled and replaced with human spotters to ensure safety when mobile construction equipment is moving in the reverse direction.

N-2 Construction Vibration Reduction Measures

The following measures to minimize exposure to construction vibration shall be included as standard conditions of approval for applicable projects involving construction:

1. *Building Examination*. The pre-existing condition of any buildings within 25 feet of any construction activities shall be recorded in order to evaluate damage from project-related construction. Fixtures and finishes within a 25-foot radius of construction activities susceptible to damage will be documented (photographically and in writing) prior to construction. All damage will be repaired back to its pre-existing condition.
2. *Stationary Equipment*. All vibratory stationary construction equipment shall be placed as far as possible from the nearest sensitive receptors.

3. *Equipment Staging Areas*. Equipment staging shall be located in areas that will create the greatest distance feasible between construction-related vibration sources and noise-sensitive receptors.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information that indicates that impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of noise is required.

5.12 Population and Housing

Final EIR Population and Housing Findings

The Final EIR determined the 2035 GPU would facilitate the development of approximately 935 residential units in Novato by 2035, which would have an associated population increase of 3,340 residents. Because of the city's proximity to other San Francisco Bay Area communities, the Final EIR found that potential commercial and industrial development would not result in indirect population growth as future employees would likely live throughout the surrounding area. Impacts related to direct or indirect population growth would be less than significant. The Final EIR concluded that development facilitated by the 2035 GPU would not displace substantial numbers of residential units or people such that replacement housing would be required, and impacts would be less than significant.

The Final EIR concluded that the 2035 GPU would be consistent with regional population, job, and housing projections, and the 2035 GPU would have an incremental contribution to cumulative impacts associated with population and housing.

Addendum Analysis

The project would involve demolition of the existing office building and associated parking lot. No existing housing would be demolished, and the project would not displace existing residential units or people. Accordingly, replacement housing would not be required and no impact would occur.

The project would involve construction of 66 detached single-family residences. The average number of persons per household in Novato is 2.45 (California Department of Finance 2024). Assuming each proposed residential unit is occupied by an average number of persons per household, and assuming a maximum growth scenario in which all residents would relocate to Novato from elsewhere, the project would generate a population increase of approximately 162 people.[4] As discussed above, the 2035 GPU is anticipated to facilitate an increase of 935 residential units and 3,340 people by 2035. The 66 residences and 162 people associated with the proposed project would represent approximately 7 percent of the anticipated increase in housing units and population in Novato. Therefore, the proposed project has been accounted for in population growth projections for the 2035 GPU, and the project would not induce substantial unplanned population growth.

4 An average of 2.45 people per residence multiplied by 66 proposed residences equals approximately 162 people.

Although the project site is not currently designated for residential use, the addition of residential units would not result in an exceedance of anticipated population growth. The average number of persons per household as of 2024, 2.45 persons, is lower than the estimate used in the Final EIR (2.64 persons). Additionally, the Final EIR estimated the increased population against the city's 2015 population, which was 52,290 people. The population of Novato has since decreased, and as of 2024, the city has a current population of 51,140 people (California Department of Finance 2024). Therefore, although the 2035 GPU did not originally account for residential use at the project site, the project would not result in an increase in population beyond what was estimated in the Final EIR. Therefore, impacts related to population and housing would be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to population and housing, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information indicating impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of population and housing is required.

5.13 Public Services

Final EIR Public Services Findings

The Final EIR determined the 2035 GPU would add approximately 3,340 new residents to the city, which would incrementally increase the need for new police and fire protection facilities. While the 2035 GPU did not include specific development projects, such as new police and fire facilities, the Final EIR found that 2035 GPU goals and policies would ensure adequate infrastructure and service levels are provided to meet future needs. The Final EIR estimated that the 2035 GPU could result in the addition of 655 new students to the Novato Unified School District area, and determined that existing school facilities have capacity to accommodate these additional students. The Final EIR determined that impacts related to public services would be less than significant. The Final EIR concluded that the 2035 GPU would have an incremental contribution to cumulative public services impacts associated with public services and cumulative impacts would be less than significant.

Addendum Analysis

As discussed in Section 5.11, *Population and Housing,* the proposed project would not induce a substantial, unplanned increase in population or housing units within the city. The project's anticipated increase in population and housing units could lead to additional demand for public services, however, this growth was accounted for in the Final EIR for the 2035 GPU. As discussed in the Final EIR and summarized above, the 2035 GPU would ensure adequate infrastructure and service levels are provided to meet future needs, and existing school facilities have capacity to accommodate additional students. In addition, the project applicant would be required to pay Public Facilities Impact Fees. The purpose of Public Facilities Impact Fees is to provide funding for necessary maintenance and improvements created by development projects, including general facilities and equipment, libraries, police, parks and recreation, streets and traffic, fire, and storm

drainage. Public facilities impact fees are based on the uses, the number of dwelling units, and the amount of square footage to be located on the property after completion of the development project. As such, through payment of the Public Facilities Impact Fees, the incremental demand on public services from additional growth would be addressed. Furthermore, as described in the 2035 GPU, if expansion of fire, police, school, or recreational facilities is needed to meet demand, those future facilities would undergo a development review process and be subject to environmental review pursuant to CEQA. That environmental review would identify site-specific conditions and physical changes. Therefore, the project would also not require new or physically altered governmental facilities or schools. Impacts would be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to public services, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information indicating impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of public services is required.

5.14 Recreation

Final EIR Recreation Findings

The Final EIR determined that the 2035 GPU would add approximately 3,340 new residents, increasing demand for parks and recreational facilities. To maintain the City's park ratio goal of 4.5 acres per 1,000 residents, approximately 15 additional acres of parkland would be needed by 2035. New or improved parks would adhere to 2035 GPU goals and policies, ensuring responsible growth and adequate planning. In addition, future developments would be required to pay parkland dedication fees. The Final EIR determined that impacts related to recreation would be less than significant. The Final EIR concluded the Final EIR would have an incremental contribution to cumulative impacts and cumulative impacts related to recreation would be less than significant.

Addendum Analysis

As discussed in Section 5.11, *Population and Housing,* the proposed project would not induce a substantial, unplanned increase in population or housing units within the city. The project's anticipated increase in population was accounted for in the Final EIR for the 2035 GPU. As discussed in the Final EIR and summarized above, the 2035 GPU would ensure adequate parkland is provided. The proposed project includes the construction of a publicly accessible recreational open space area on the western side of the project site and would include amenities such as outdoor seating areas, tables, and play structures. In addition, the remaining portion of the parcel north of the proposed residences, outside of the existing development footprint, would remain undeveloped as passive open space. Furthermore, the proposed project would be required to pay parkland dedication fees to the City of Novato. Therefore, the project would also not require new or physically altered recreational facilities. Impacts would be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to recreation, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information that indicates that impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of recreation is required.

5.15 Transportation and Traffic

The Final EIR was prepared and certified prior to adoption of the final CEQA guidelines that would change the metric of transportation analyses under CEQA from level of service (LOS) to VMT. LOS, a measure of traffic congestion, was replaced as the metric of transportation analyses by VMT pursuant to Senate Bill 743. While a preliminary assessment of VMT generated by the 2035 GPU was prepared, it was included in the Final EIR (Section 4.14, Transportation and Traffic) for informational purposes only.

Changes in regulations after approval of the original EIR do not constitute new information triggering a supplemental or subsequent EIR (*Concerned Dublin Citizens v. City of Dublin* [2013] 214 Cal.App.4th 1301, 1320). Nor does it require a previously analyzed topics, such as the change from the LOS standard to the VMT standard for traffic, to be reassessed under the new requirements (*Olen Properties Corp. v. City of Newport Beach* [2023] 93 Cal.App.5th 270, 280–281). In conformance with this standard, the following analysis is presented in terms of LOS to demonstrate consistency with the Final EIR. A brief VMT analysis is included for informational purposes only.

Final EIR Transportation and Traffic Findings

The Final EIR determined new development facilitated by the 2035 GPU would increase traffic volumes in Novato, which may increase motor vehicle delay and conflict with the city's LOS traffic standards. Impacts were determined to be potentially significant. The Final EIR included Mitigation Measure T-1, Intersection Delay Mitigations, which would reduce traffic delays at impacted intersections to the extent feasible. However, the Final EIR found that even with implementation of Mitigation Measure T-1, impacts to some intersections would remain significant and unavoidable. The Final EIR determined that traffic generated by development facilitated by the 2035 GPU could conflict with the County of Marin Congestion Management Program, and that impacts would be potentially significant. With implementation of Mitigation Measure T-1 and applicable 2035 GPU policies, impacts related to compliance with the Congestion Management Program would be less than significant. The Final EIR concluded that the 2035 GPU would not result in changes to air traffic patterns or an increase in traffic hazards and impacts would be less than significant. In addition, the Final EIR determined that compliance with 2035 GPU goals and policies related to emergency access would reduce potential impacts related to emergency access to a less-than-significant level.

Addendum Analysis

The proposed project would involve the construction of internal sidewalks that would connect to existing sidewalks on Meadow Crest Road and Wood Hollow Drive. The project would not modify or inhibit use of existing bicycle and pedestrian facilities on Wood Hollow Drive, Meadow Crest Road, and in the city generally. The nearest transit stop to the project site is the Novato San Marin SMART Station, which serves the Sonoma Marin Area Rail Transit train and the Marin Transit bus. The project would not affect the operation of these transit services. Therefore, the project would not conflict with the City's Bicycle/Pedestrian Plan and would not conflict with plans or policies for transit services.

As discussed above, SB 743 (2013) and the subsequent amendment of the CEQA Guidelines was not incorporated into CEQA at the time the Final EIR was prepared and certified, and therefore this analysis includes a brief discussion of LOS. However, as discussed above, it should be noted that LOS is no longer analyzed under CEQA. A trip generation study was prepared for the proposed project by W-Trans in January 2025 and is included as Appendix H to this Addendum. Therein, it compares the amount of trips generated by the existing office land use and the projected number of trips associated with the proposed project. As shown in Table 7, the proposed project would result in a net decrease of trips to and from the project site compared to existing trips associated with the office use. Accordingly, the project would not substantially affect the LOS of study intersections in the city, and growth associated with the proposed project was captured in the Final EIR's traffic and transportation analysis. The project would not result in greater impacts to LOS than those identified in the Final EIR.

Table 7 Existing and Estimated Daily Trip Generation

		Daily		AM Peak Hour				PM Peak Hour			
Land Use	**Units/Area**	**Trip Rate**	**Trips**	**Rate**	**Trips**	**In**	**Out**	**Rate**	**Trips**	**In**	**Out**
Existing											
Office Building	124.87 ksq. ft.	10.84	1,354	1.52	190	167	23	1.44	180	31	149
Proposed											
Single-Family Residential	66 units	9.43	622	0.70	46	12	34	0.94	62	39	23
Difference			-732		-144	-155	11		-118	8	-126

Notes: ksq. ft. = 1,000 square feet

Trip rates are multiplied by the units/area to determine the number of trips.

Source: Appendix H

As shown above, the trip generation estimates indicate that the proposed project would result in a net decrease of 732 daily trips, 144 morning peak hour trips, and 118 evening peak hour trips. As explained above Table 7, this information is presented for informational purposes only; because the project would not result in greater impacts to LOS than those identified in the Final EIR and is subject to complying with Mitigation Measure T-1, impacts would be less than significant.

To be consistent with updates to the CEQA Guidelines, a VMT analysis was also prepared for the proposed project by W-Trans in January 2025, which is included as Appendix H to this Addendum. As discussed therein, VMT associated with the site's current office use was compared to estimated VMT associated with the site's potential future residential use. Table 8 compares the projected VMT

associated with the project site as an office use (existing use) and as a residential use (proposed project use) in cumulative conditions in 2040.

Table 8 Comparison of Total VMT Potential in 2040

Land Use	Daily Trips	Average 2040 Trip Length (miles)	Total Vehicle Miles Traveled
Existing			
Office Building	1,354	9.90	13,405
Proposed			
Single-Family Residential	622	4.53	2,818
Difference	**-732**	**-5.37**	**-10,587**

Source: Appendix H

As shown in Table 8, the project would result in fewer daily trips and shorter daily trips compared to trips associated with continued office use of the project site, and would substantially reduce VMT compared to future baseline conditions. Accordingly, the project would result in less than significant impacts related to VMT.

Vehicle access to the project site would be available via the existing driveway on Meadow Crest Road. Residents' vehicles and emergency vehicles would be able to access and circulate through the project site via this driveway and proposed internal streets, which would provide access to each proposed residence. In addition, a 20-foot wide emergency vehicle access path would be installed along the southern boundary of the project site, which would connect to Wood Hollow Drive. The driveway and emergency vehicle access path are designed to accommodate the turning radii of emergency vehicles, which would be verified by the Novato Fire Protection District prior to issuance of building permits. Accordingly, impacts related to emergency access would be less than significant.

As a residential project, the project would not involve incompatible uses, such as the operation of farm equipment or other large vehicles, that would increase vehicle hazards at the project site. Therefore, the project would not substantially increase hazards due to a geometric design feature or incompatible uses, and impacts would be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to transportation and traffic, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information that indicates that impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of transportation and traffic is required.

5.16 Tribal Cultural Resources

Final EIR Tribal Cultural Resources Findings

In accordance with Senate Bill 18 (2004), the City of Novato notified the Federated Indians of Graton Rancheria (FIGR) of proposed project, invited them to participate in consultation, and provided them with a copy of the public review draft of the 2035 GPU. A representative of the FIGR responded stating that they did not have comments on the draft General Plan. The City also notified the FIGR of the 2035 GPU and invited them to participate in consultation pursuant to Assembly Bill 52. FIGR indicated they wished to engage in formal consultation, but did not attend a consultation meeting with the City. The City decided to continue preparation of the Final EIR and provided the FIGR with the Draft EIR and the 2035 GPU for review.

The Final EIR determined that development facilitated by the 2035 GPU could result impacts to tribal cultural resources. The Final EIR included Mitigation Measure TCR-1, Tribal Cultural Resources, which required a new policy be added to the 2035 GPU which states the City shall comply with Assembly Bill 52 (2014) to identify tribal cultural resources that could be impacted by future development. The Final EIR concluded that impacts to tribal cultural resources would be less than significant with mitigation.

Addendum Analysis

Pursuant to Public Resources Code Section 21080.3.1, the lead agency of a project must begin Native American Consultation prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report for a project. Because this project is analyzed as an addendum to the DSP Final EIR, AB 52 (2014) consultation for this project is not required. In addition, because the project would not involve a general plan amendment, consultation pursuant to Senate Bill 18 (2004) is not required.

As discussed within Section 5.4, *Cultural Resources*, the site contains existing development, has been previously graded, paved, and landscaped, and only a small area outside the previous limits of disturbance will be graded for construction of a small concrete ditch and slope stabilization as recommended within the final geotechnical report. However, the project would involve ground disturbing activities, which could result in the unearthing of unknown tribal cultural resources. Similarly with Section 5.4, *Cultural Resources*, the proposed project would be required to implement Mitigation Measures CUL-2 which would require coordination with Native American tribes listed by the Native American Heritage Commission (NAHC). Through Mitigation Measure CUL-2, the project shall be evaluated to determine its potential to impact tribal cultural resources, and if potential impacts are identified, recommendations to avoid or reduce impacts shall be implemented. With implementation of Mitigation Measure CUL-2, impacts to tribal cultural resources would be reduced to the extent feasible and would not result in increases impacts beyond those identified within the Final EIR. Overall, project impacts associated with tribal cultural resources would be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to tribal cultural resources, and no new mitigation measures are necessary. However, the following Final EIR mitigation measures would be required as a condition of project approval:

CUL-2 Archaeological Resources Study Program

All discretionary projects shall investigate the potential to disturb archaeological resources. If preliminary reconnaissance suggests that cultural resources may exist, a Phase I cultural resources study shall be performed by a qualified professional meeting the Secretary of the Interior's (SOI) Professional Qualification Standard (PQS) for archaeology (NPS 1983). A Phase I cultural resources study shall include a pedestrian survey of the project site and sufficient background research and, as necessary, field sampling to determine whether archaeological resources may be present. Archival research shall include a records search at the Northwest Information Center (NWIC) and a Sacred Lands File (SLF) search with the Native American Heritage Commission (NAHC), and coordination with Native American tribes listed by the NAHC. The Phase I technical report documenting the study shall include recommendations to avoid or reduce impacts on archaeological resources. The project sponsor shall implement the recommendations.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information indicating impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of tribal cultural resources is required.

5.17 Utilities and Service Systems

Final EIR Utilities and Service Systems Findings

The Final EIR determined that the Novato Treatment Plant (Novato Sanitary District) has adequate capacity to accommodate the increase in wastewater flows associated with buildout of the 2035 GPU, and impacts related to wastewater treatment requirements and capacity would be less than significant. The Final EIR determined that the North Marin Water District has adequate water supply for development facilitated by the 2035 GPU, and impacts related to water supply or the construction or expansion of new water facilities would be less than significant. The Final EIR determined solid waste facilities that serve Novato had adequate capacity for solid waste generated by development facilitated by the 2035 GPU, and impacts related to solid waste disposal capacity and compliance with solid waste statutes and regulations would be less than significant. The Final EIR concluded that implementation of the 2035 GPU would not result in cumulatively considerable contributions to cumulative wastewater, water, and solid waste impacts and cumulative impacts would be less than significant.

Addendum Analysis

As described in Section 5.11, *Population and Housing,* the project would not generate housing units or population growth that would exceed growth anticipated by the 2035 GPU and the Final EIR. The Final EIR determined that development facilitated by the 2035 GPU would be served by sufficient water supplies. Therefore, the proposed project would have adequate water supply and would not require or result in the construction of new or expanded water facilities. Additionally, the project would have sufficient water supplies in normal, dry, and multiple dry years. Impacts would be less than significant.

The project site is located in a developed area already served by existing water, wastewater, stormwater, electric power, natural gas, and telecommunication facilities. The proposed project would connect to existing infrastructure. Because the population growth under the proposed project is anticipated by the Final EIR, the project would not require or result in the construction of new or expanded wastewater, stormwater, electric power, natural gas, and telecommunication facilities. Impacts would be less than significant.

The proposed project would generate solid waste during construction and operation. During construction, the current California Green Building Standards code would require that 65 percent of construction and demolition debris be diverted from landfills. Handling of debris and waste generated during construction would be subject to California Green Building Standards requirements, compliance with which would not impair the attainment of solid waste reduction goals. In addition, the Final EIR found that solid waste disposal facilities would have adequate capacity for growth facilitated by the 2035 GPU; because the project would not exceed growth anticipated by the 2035 GPU, the project would not generate solid waste that exceeds the capacity of solid waste disposal facilities that serve the city. Impacts would be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to utilities and service systems, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information that indicates that impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of utilities and service systems is required.

5.18 Wildfire

Final EIR Wildfire Findings

Wildfire was added as an environmental topic to the CEQA Guidelines Appendix G Checklist after preparation of the Final EIR. Accordingly, the Final EIR does not include a separate chapter or section dedicated to analysis of wildfire impacts. However, it does analyze such impacts in Section 4.7, *Hazards and Hazardous Materials*, and concludes that impacts would be less than significant with no mitigation required. Development in areas susceptible to wildfires or in areas adjacent to wildfire hazard areas has the potential to impact both the new development and nearby existing development if there are no buffers between structures and flammable vegetation and inadequate fire protection services in the vulnerable wildfire areas. However, the city of Novato is primarily urbanized and most of the growth facilitated by the 2035 GPU would occur as infill and redevelopment within the urbanized areas of the City. Because development would occur in urbanized areas of the City, where large tracts of vegetation cover are not present, the Final EIR concluded that the 2035 GPU would not increase wildfire risk in Novato. The Final EIR also identified 2035 GPU goals and policies that would require development in Wildland-Urban Interface (WUI) areas to comply with applicable building standards, implement a vegetation management plan, and maintain emergency access. The Final EIR concluded that impacts related to wildland fires would be less than significant.

Addendum Analysis

The project site is located within a Local Responsibility Area, and is not within or adjacent to a FHSZ[5]. The nearest FHSZs to the project site are a Moderate FHSZ located approximately 0.5-mile southeast of the site on the opposite side of U.S. 101, and a High FHSZ approximately 0.5-mile north of the site (California Department of Forestry and Fire Protection 2024). However, the project would involve the construction of residences within the existing development footprint in the southern portion of the project site and would not include development of the oak woodlands in the northern portion of the site; accordingly, residences would be located adjacent to undeveloped woodlands, which is a potential fire hazard.

As discussed in Section 5.8, *Hazards and Hazardous Materials,* construction of the project would require installation of water and sewer lines, which may require a partial closure of Wood Hollow Drive. Road closures would be temporary, and barriers and flaggers would direct traffic around the closed lane of Wood Hollow Drive. Accordingly, the project would not impair implementation of emergency response plans or evacuation plans, and impacts would be less than significant.

There are undeveloped areas immediately east, north, and west of the project site, which are surrounded by Moderate and High FHSZs further to the north and east. According to guidance provided by the California Department of Forestry and Fire Protection, sloping land increases susceptibility to wildfire because fire typically burns faster up steep slopes (California Department of Forestry and Fire Protection 2000). The project site and surrounding undeveloped areas are sloped, with the areas sloping upward to the northwest and southeast. In the event of a wildfire, fire would burn faster upslope away from the project site (to the north) and existing development. Additionally, the predominant prevailing wind direction in Novato is from west to east, away from the project site and existing development (WeatherSpark 2025).

The project would involve the use of construction equipment, which may produce sparks that could ignite vegetation. Project construction would be required to comply with regulations related to construction equipment and fire suppressants, including but not limited to California Public Resources Code Section 4442, which requires spark arrestors on potentially-spark inducing equipment. The project would not exacerbate existing wildfire risk and would not substantially increase the risk of exposing project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire. Impacts would be less than significant.

The project would involve the construction of new internal roadways and utility connections on the project site. However, no extensions would occur beyond the project site into Moderate or High FHSZs. The project would not result in the installation of associated infrastructure that would not exacerbate fire risk or result in temporary or ongoing impacts to the environment, and the project would have no impact.

[5] Rincon Consultants, Inc. (hereinafter referred to as "Rincon") creates analyses of wildfire risk based on numerous sources, including State and Federal hazard maps such as CALFire Fire Hazard Severity Zones Maps, as well as software modeling programs that are considered standard for wildfire analysis. These sources are intended as informational tools to support the analysis of potential wildfire impacts and the development of risk reduction measures and are considered industry standard tools for wildfire analysis. The included analysis is based upon the information and industry best practices available at the time of preparation. While Rincon has made every effort to ensure the accuracy and reliability of the information provided, the analysis in this report is intended for informational purposes only and should not be construed as definitive or exhaustive. Each situation may differ based on site-specific conditions, weather, and other factors that may impact the analysis, as well as the limitations of the programs themselves. Wildfire is unpredictable, and the specific conditions of wildfire could result in fire behavior that diverges from the assumptions used in this analysis. There is no guarantee that wildfire behavior and specific treatment to avoid such behavior will follow or prevent the predicted results from wildfire modeling technology.

As discussed in Section 5.6, *Geology and Soils,* hilly areas adjacent to and upslope of the project site are susceptible to debris flows and landslides. The project would incorporate recommendations from the final geotechnical report, including but not limited to slope stabilization and particular grading methods, which would reduce the risk of landslides to the extent feasible. Therefore, the project would not expose people or structures to substantial new risk of post-fire slope instability and impacts would be less than significant.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects related to wildfire, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information indicating impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of wildfire is required.

5.19 Effects Found Not to be Significant

Final EIR Findings

The Final EIR determined impacts to agricultural resources and mineral resources would be less than significant and, pursuant to CEQA Guidelines Section 15128, were not discussed in further detail in the Final EIR. The Final EIR determined development facilitated by the 2035 GPU would not convert agricultural lands to non-agricultural uses, conflict with a Williamson Act contract, or result in the loss of forest land. The Final EIR determined there are no active quarries in the city, and implementation of the 2035 GPU would not result in a loss of availability of mineral resources. The Final EIR concluded that impacts related to agriculture and forestry resources and mineral resources would be less than significant.

Addendum Analysis

The project site is designated as Urban and Built-Up Land by the California Department of Conservation, and it is not enrolled in a Williamson Act contract (California Department of Conservation 2022; 2023). Therefore, the proposed project would not conflict with agricultural zoning designations, a Williamson Act contract, and would not involve the conversion of agricultural land to non-agricultural use or result in the loss of forest land. There would be no impact. In addition, the project site does not overlie a known mineral resource (United States Geological Survey 2025). Accordingly, the project would not result in the loss of availability of a mineral resource and there would be no impact.

Effects and Mitigation Measures

The project would not result in new or substantially more severe significant effects to agriculture, forestry, and mineral resources, and no new mitigation measures are necessary.

Conclusion

Impacts would be similar to those identified in the Final EIR. The project would not result in new impacts not addressed or analyzed in the Final EIR nor present new information indicating impacts would be more significant than those of the 2035 GPU. Therefore, the impacts of the project would be within the scope of the Final EIR and no additional environmental assessment of agriculture, forestry, and mineral resources is required.

5.20 Other CEQA Required Considerations

Impacts Identified in the Certified Final EIR

Growth-Inducing Impacts

The Final EIR determined that although the 2035 GPU would result in a population increase, the anticipated population growth would be consistent with projections prepared by ABAG. Additionally, the residential development proposed under the 2035 GPU would assist the city in meeting its Regional Housing Needs Allocation goal. The Final EIR also determined that the 2035 GPU would not result in the need for new or expanded public facilities and services, and would not result in a jobs-to-housing ratio in Novato that would induce new residential growth.

Irreversible Environmental Effects

The Final EIR acknowledges that implementation of the 2035 GPU would involve irretrievable commitments of non-renewable resources, such as water for water demand generated by buildout of the 2035 GPU and the commitment of energy sources and increased energy use. Additionally, the 2035 GPU would result in irreversible construction-related impacts, such as the consumption of non-renewable building materials. Implementation of the 2035 GPU would also result in an irreversible increase in air pollutant and GHG emissions associated with construction and operation of development, and vehicle traffic generated by the 2035 GPU.

Energy Effects

The Final EIR found that, although implementation of the 2035 GPU would result in overall consumption of energy beyond existing conditions, the 2035 GPU would implement a land use strategy that promotes greater overall energy conservation and efficiency in community and municipal operations. 2035 GPU policies and programs would ensure that project development would comply with existing energy efficiency regulations and would encourage new and existing development to take advantage of voluntary energy efficiency programs. The Final EIR concluded that impacts related to energy would be less than significant.

Addendum Analysis

The proposed project would not substantially change the findings presented for the 2035 GPU in the Final EIR. The proposed project would not result in buildout beyond what is allowed by the 2035 GPU. Additionally, the proposed project would not result in greater physical changes to the environment or more intense land uses than what is analyzed in the Final EIR. As described in Sections 5.1 through 5.19 above, the proposed project would not result in new or more severe direct, indirect, or cumulative impacts beyond those identified in the previously certified Final EIR. Therefore, the proposed project would also not result in new or more severe significant and unavoidable impacts, growth inducing effects, irreversible environmental effects, or energy effects beyond those previously discussed in the Final EIR.

6 Summary of Findings

The City of Novato, acting as the lead agency, determined that an addendum is the appropriate environmental document under CEQA because the proposed project would not require revisions to the certified Final EIR due to the involvement of new significant environmental effects or substantial increases in the severity of significant effects previously identified in the Final EIR.

As discussed in detail in the preceding sections, potential impacts associated with the Wood Hollow Residences Project are consistent with potential impacts characterized and mitigated for in the Final EIR. Substantive revisions to the Final EIR are not necessary, because no new significant impacts or significant impacts of substantially greater severity than previously described would occur because of the proposed project. Thus, the conditions outlined in *CEQA Guidelines* Section 15162(a) requiring preparation of a subsequent EIR would not be met.

Based on the analysis contained herein, the following determinations are applicable:

- No further evaluation of environmental impacts is required for the Wood Hollow Residences Project.
- No subsequent EIR is necessary pursuant to *CEQA Guidelines* Section 15162.
- This addendum is the appropriate level of environmental analysis and documentation for the Wood Hollow Residences Project pursuant to *CEQA Guidelines* Section 15164.

Pursuant to *CEQA Guidelines* Section 15164(c), this addendum will be included in the public record for the Final EIR. Documents related to this addendum will be available at the City of Novato Community Development Department, located at 922 Machin Avenue, Novato, California 94945.

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7.2 List of Preparers

Rincon Consultants, Inc. prepared this EIR Addendum under contract to the City of Novato. Persons involved in data gathering analysis, project management, and quality control are listed below.

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Wood Hollow Residence Projects v2
Construction Start Date	7/1/2026
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60
Precipitation (days)	43.4
Location	38.12493524544095, -122.56976337969391
County	Marin
City	Novato
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	911
EDFZ	2
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	66.0	Dwelling Unit	6.78	189,808	53,036	—	158	—

Parking Lot	24.0	Space	0.22	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.60	5.38	24.5	21.8	0.05	0.89	7.77	8.66	0.81	3.12	3.93	—	6,227	6,227	0.48	0.46	5.89	6,384
Mit.	4.72	4.68	8.34	21.0	0.05	0.11	7.77	7.88	0.10	3.12	3.22	—	6,227	6,227	0.48	0.46	5.89	6,384
% Reduced	16%	13%	66%	4%	—	87%	—	9%	88%	—	18%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.60	5.37	29.2	29.4	0.05	1.24	7.81	9.05	1.14	3.97	5.12	—	5,436	5,436	0.22	0.06	0.03	5,456
Mit.	4.72	4.67	3.14	28.9	0.05	0.10	7.81	7.91	0.10	3.97	4.07	—	5,436	5,436	0.22	0.06	0.03	5,456
% Reduced	16%	13%	89%	2%	—	92%	—	13%	91%	—	20%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.77	4.58	13.4	16.0	0.03	0.52	3.36	3.83	0.48	1.53	1.95	—	3,155	3,155	0.15	0.11	0.60	3,178
Mit.	4.05	4.01	2.68	16.9	0.03	0.07	3.36	3.41	0.07	1.53	1.58	—	3,155	3,155	0.15	0.11	0.60	3,178

% Reduced	15%	12%	80%	-6%	—	87%	—	11%	86%	—	19%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.87	0.84	2.44	2.91	0.01	0.10	0.61	0.70	0.09	0.28	0.36	—	522	522	0.03	0.02	0.10	526
Mit.	0.74	0.73	0.49	3.08	0.01	0.01	0.61	0.62	0.01	0.28	0.29	—	522	522	0.03	0.02	0.10	526
% Reduced	15%	12%	80%	-6%	—	87%	—	11%	86%	—	19%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.19	2.39	24.5	21.8	0.05	0.89	7.77	8.66	0.81	3.12	3.93	—	6,227	6,227	0.48	0.46	5.89	6,384
2027	5.60	5.38	15.2	18.4	0.03	0.61	3.08	3.68	0.56	1.42	1.97	—	3,790	3,790	0.21	0.14	1.77	3,839
2028	5.55	5.33	9.21	13.8	0.02	0.30	0.25	0.55	0.28	0.06	0.34	—	2,777	2,777	0.12	0.05	0.99	2,795
2029	5.52	5.31	8.85	13.8	0.02	0.28	0.25	0.53	0.25	0.06	0.31	—	2,768	2,768	0.12	0.05	0.89	2,786
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.80	3.20	29.2	29.4	0.05	1.24	7.81	9.05	1.14	3.97	5.12	—	5,436	5,436	0.22	0.05	0.01	5,456
2027	5.60	5.37	28.0	28.8	0.05	1.17	7.81	8.98	1.08	3.97	5.05	—	5,433	5,433	0.22	0.06	0.03	5,453
2028	5.55	5.33	9.23	13.8	0.02	0.30	0.25	0.55	0.28	0.06	0.34	—	2,764	2,764	0.12	0.05	0.03	2,783
2029	5.51	5.30	8.87	13.7	0.02	0.28	0.25	0.53	0.25	0.06	0.31	—	2,755	2,755	0.12	0.05	0.02	2,774
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.51	1.21	11.6	11.1	0.02	0.46	3.36	3.83	0.42	1.53	1.95	—	2,521	2,521	0.15	0.11	0.60	2,558
2027	3.64	3.33	13.4	16.0	0.03	0.52	2.41	2.93	0.48	1.17	1.65	—	3,155	3,155	0.14	0.06	0.42	3,178
2028	4.77	4.58	7.93	11.8	0.02	0.26	0.21	0.47	0.24	0.05	0.29	—	2,376	2,376	0.10	0.05	0.37	2,393

2029	2.41	2.31	4.23	6.54	0.01	0.14	0.11	0.25	0.12	0.03	0.15	—	1,287	1,287	0.05	0.02	0.17	1,296
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.28	0.22	2.13	2.02	< 0.005	0.08	0.61	0.70	0.08	0.28	0.36	—	417	417	0.03	0.02	0.10	424
2027	0.66	0.61	2.44	2.91	0.01	0.10	0.44	0.54	0.09	0.21	0.30	—	522	522	0.02	0.01	0.07	526
2028	0.87	0.84	1.45	2.16	< 0.005	0.05	0.04	0.09	0.04	0.01	0.05	—	393	393	0.02	0.01	0.06	396
2029	0.44	0.42	0.77	1.19	< 0.005	0.02	0.02	0.04	0.02	< 0.005	0.03	—	213	213	0.01	< 0.005	0.03	214

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.83	0.47	8.34	21.0	0.05	0.11	7.77	7.88	0.10	3.12	3.22	—	6,227	6,227	0.48	0.46	5.89	6,384
2027	4.72	4.68	3.12	18.9	0.03	0.08	3.08	3.14	0.07	1.42	1.48	—	3,790	3,790	0.21	0.14	1.77	3,839
2028	4.72	4.67	3.10	15.7	0.02	0.08	0.25	0.32	0.07	0.06	0.13	—	2,777	2,777	0.12	0.05	0.99	2,795
2029	4.71	4.67	3.08	15.7	0.02	0.08	0.25	0.32	0.07	0.06	0.13	—	2,768	2,768	0.12	0.05	0.89	2,786
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.56	0.55	2.64	28.9	0.05	0.10	7.81	7.91	0.10	3.97	4.07	—	5,436	5,436	0.22	0.05	0.01	5,456
2027	4.72	4.67	3.14	28.8	0.05	0.10	7.81	7.91	0.10	3.97	4.07	—	5,433	5,433	0.22	0.06	0.03	5,453
2028	4.71	4.67	3.12	15.7	0.02	0.08	0.25	0.32	0.07	0.06	0.13	—	2,764	2,764	0.12	0.05	0.03	2,783
2029	4.71	4.67	3.10	15.6	0.02	0.08	0.25	0.32	0.07	0.06	0.13	—	2,755	2,755	0.12	0.05	0.02	2,774
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.30	0.22	2.41	10.8	0.02	0.05	3.36	3.41	0.04	1.53	1.58	—	2,521	2,521	0.15	0.11	0.60	2,558
2027	2.25	2.21	2.57	16.9	0.03	0.07	2.41	2.48	0.07	1.17	1.23	—	3,155	3,155	0.14	0.06	0.42	3,178
2028	4.05	4.01	2.68	13.4	0.02	0.07	0.21	0.27	0.06	0.05	0.11	—	2,376	2,376	0.10	0.05	0.37	2,393
2029	2.02	2.00	1.46	7.41	0.01	0.03	0.11	0.15	0.03	0.03	0.06	—	1,287	1,287	0.05	0.02	0.17	1,296

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.05	0.04	0.44	1.96	< 0.005	0.01	0.61	0.62	0.01	0.28	0.29	—	417	417	0.03	0.02	0.10	424
2027	0.41	0.40	0.47	3.08	0.01	0.01	0.44	0.45	0.01	0.21	0.23	—	522	522	0.02	0.01	0.07	526
2028	0.74	0.73	0.49	2.45	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	393	393	0.02	0.01	0.06	396
2029	0.37	0.36	0.27	1.35	< 0.005	0.01	0.02	0.03	0.01	< 0.005	0.01	—	213	213	0.01	< 0.005	0.03	214

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.36	7.14	2.12	19.0	0.04	0.09	3.75	3.85	0.09	0.95	1.04	20.8	5,225	5,246	2.36	0.15	11.6	5,362
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.96	6.75	2.31	14.8	0.04	0.09	3.75	3.85	0.09	0.95	1.04	20.8	5,004	5,025	2.38	0.17	1.63	5,136
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.03	6.83	2.00	15.7	0.04	0.07	3.57	3.64	0.07	0.90	0.98	20.8	4,668	4,688	2.37	0.16	5.69	4,801
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.28	1.25	0.37	2.87	0.01	0.01	0.65	0.66	0.01	0.16	0.18	3.45	773	776	0.39	0.03	0.94	795

2.5. Operations Emissions by Sector, Unmitigated

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

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

Mobile	2.12	1.97	1.24	14.9	0.04	0.02	3.75	3.78	0.02	0.95	0.97	—	3,866	3,866	0.15	0.14	10.3	3,921
Area	5.16	5.13	0.25	3.85	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	288	288	0.01	< 0.005	—	288
Energy	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,062	1,062	0.11	0.01	—	1,067
Water	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Waste	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36
Total	7.36	7.14	2.12	19.0	0.04	0.09	3.75	3.85	0.09	0.95	1.04	20.8	5,225	5,246	2.36	0.15	11.6	5,362
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.07	1.91	1.46	14.4	0.04	0.02	3.75	3.78	0.02	0.95	0.97	—	3,655	3,655	0.17	0.15	0.27	3,705
Area	4.82	4.81	0.22	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	278	278	0.01	< 0.005	—	278
Energy	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,062	1,062	0.11	0.01	—	1,067
Water	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Waste	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36
Total	6.96	6.75	2.31	14.8	0.04	0.09	3.75	3.85	0.09	0.95	1.04	20.8	5,004	5,025	2.38	0.17	1.63	5,136
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.99	1.84	1.35	13.6	0.04	0.02	3.57	3.59	0.02	0.90	0.92	—	3,585	3,585	0.16	0.14	4.34	3,636
Area	4.97	4.96	0.02	1.85	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	11.8	11.8	< 0.005	< 0.005	—	11.8
Energy	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,062	1,062	0.11	0.01	—	1,067
Water	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Waste	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36
Total	7.03	6.83	2.00	15.7	0.04	0.07	3.57	3.64	0.07	0.90	0.98	20.8	4,668	4,688	2.37	0.16	5.69	4,801
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.36	0.34	0.25	2.48	0.01	< 0.005	0.65	0.66	< 0.005	0.16	0.17	—	594	594	0.03	0.02	0.72	602
Area	0.91	0.90	< 0.005	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.95	1.95	< 0.005	< 0.005	—	1.96

Energy	0.01	0.01	0.11	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	176	176	0.02	< 0.005	—	177
Water	—	—	—	—	—	—	—	—	—	—	—	0.63	1.44	2.07	0.07	< 0.005	—	4.17
Waste	—	—	—	—	—	—	—	—	—	—	—	2.81	0.00	2.81	0.28	0.00	—	9.84
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	1.28	1.25	0.37	2.87	0.01	0.01	0.65	0.66	0.01	0.16	0.18	3.45	773	776	0.39	0.03	0.94	795

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.12	1.97	1.24	14.9	0.04	0.02	3.75	3.78	0.02	0.95	0.97	—	3,866	3,866	0.15	0.14	10.3	3,921
Area	5.16	5.13	0.25	3.85	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	288	288	0.01	< 0.005	—	288
Energy	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,062	1,062	0.11	0.01	—	1,067
Water	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Waste	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36
Total	7.36	7.14	2.12	19.0	0.04	0.09	3.75	3.85	0.09	0.95	1.04	20.8	5,225	5,246	2.36	0.15	11.6	5,362
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.07	1.91	1.46	14.4	0.04	0.02	3.75	3.78	0.02	0.95	0.97	—	3,655	3,655	0.17	0.15	0.27	3,705
Area	4.82	4.81	0.22	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	278	278	0.01	< 0.005	—	278
Energy	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,062	1,062	0.11	0.01	—	1,067
Water	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Waste	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36
Total	6.96	6.75	2.31	14.8	0.04	0.09	3.75	3.85	0.09	0.95	1.04	20.8	5,004	5,025	2.38	0.17	1.63	5,136

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.99	1.84	1.35	13.6	0.04	0.02	3.57	3.59	0.02	0.90	0.92	—	3,585	3,585	0.16	0.14	4.34	3,636
Area	4.97	4.96	0.02	1.85	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	11.8	11.8	< 0.005	< 0.005	—	11.8
Energy	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,062	1,062	0.11	0.01	—	1,067
Water	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Waste	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36
Total	7.03	6.83	2.00	15.7	0.04	0.07	3.57	3.64	0.07	0.90	0.98	20.8	4,668	4,688	2.37	0.16	5.69	4,801
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.36	0.34	0.25	2.48	0.01	< 0.005	0.65	0.66	< 0.005	0.16	0.17	—	594	594	0.03	0.02	0.72	602
Area	0.91	0.90	< 0.005	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.95	1.95	< 0.005	< 0.005	—	1.96
Energy	0.01	0.01	0.11	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	176	176	0.02	< 0.005	—	177
Water	—	—	—	—	—	—	—	—	—	—	—	0.63	1.44	2.07	0.07	< 0.005	—	4.17
Waste	—	—	—	—	—	—	—	—	—	—	—	2.81	0.00	2.81	0.28	0.00	—	9.84
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	1.28	1.25	0.37	2.87	0.01	0.01	0.65	0.66	0.01	0.16	0.18	3.45	773	776	0.39	0.03	0.94	795

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

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

Off-Road Equipment	2.72	2.29	20.7	19.0	0.03	0.84	—	0.84	0.78	—	0.78	—	3,427	3,427	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Demolition	—	—	—	—	—	—	1.83	1.83	—	0.28	0.28	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.49	4.47	4.11	0.01	0.18	—	0.18	0.17	—	0.17	—	742	742	0.03	0.01	—	744
Dust From Material Movement	—	—	—	—	—	—	1.11	1.11	—	0.57	0.57	—	—	—	—	—	—	—
Demolition	—	—	—	—	—	—	0.40	0.40	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.82	0.75	< 0.005	0.03	—	0.03	0.03	—	0.03	—	123	123	< 0.005	< 0.005	—	123
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.10	0.10	—	—	—	—	—	—	—

Demoliti	—	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.55	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	127	127	< 0.005	< 0.005	0.48	129
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.41	0.05	3.81	2.28	0.02	0.05	0.70	0.75	0.03	0.19	0.22	—	2,674	2,674	0.34	0.43	5.41	2,816
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.7	25.7	< 0.005	< 0.005	0.04	26.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.01	0.86	0.50	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	579	579	0.07	0.09	0.50	609
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.26	4.26	< 0.005	< 0.005	0.01	4.32
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.16	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	95.8	95.8	0.01	0.02	0.08	101

3.2. Demolition (2026) - Mitigated

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

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

Off-Road	0.36	0.36	4.51	18.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,427	3,427	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Demolition	—	—	—	—	—	—	1.83	1.83	—	0.28	0.28	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.98	3.93	0.01	0.01	—	0.01	0.01	—	0.01	—	742	742	0.03	0.01	—	744
Dust From Material Movement	—	—	—	—	—	—	1.11	1.11	—	0.57	0.57	—	—	—	—	—	—	—
Demolition	—	—	—	—	—	—	0.40	0.40	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	123	123	< 0.005	< 0.005	—	123
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.10	0.10	—	—	—	—	—	—	—

Demolition	—	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.55	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	127	127	< 0.005	< 0.005	0.48	129
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.41	0.05	3.81	2.28	0.02	0.05	0.70	0.75	0.03	0.19	0.22	—	2,674	2,674	0.34	0.43	5.41	2,816
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.7	25.7	< 0.005	< 0.005	0.04	26.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.01	0.86	0.50	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	579	579	0.07	0.09	0.50	609
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.26	4.26	< 0.005	< 0.005	0.01	4.32
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.16	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	95.8	95.8	0.01	0.02	0.08	101

3.3. Site Preparation (2026) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	6.30	6.22	0.01	0.27	—	0.27	0.25	—	0.25	—	1,145	1,145	0.05	0.01	—	1,149
Dust From Material Movement	—	—	—	—	—	—	1.66	1.66	—	0.85	0.85	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.15	1.14	< 0.005	0.05	—	0.05	0.05	—	0.05	—	190	190	0.01	< 0.005	—	190
Dust From Material Movement	—	—	—	—	—	—	0.30	0.30	—	0.16	0.16	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.57	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	138	138	< 0.005	0.01	0.01	140
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.0	30.0	< 0.005	< 0.005	0.05	30.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.96	4.96	< 0.005	< 0.005	0.01	5.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2026) - Mitigated

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

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

Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	0.56	6.12	0.01	0.02	—	0.02	0.02	—	0.02	—	1,145	1,145	0.05	0.01	—	1,149
Dust From Material Movement	—	—	—	—	—	—	1.66	1.66	—	0.85	0.85	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.10	1.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	190	190	0.01	< 0.005	—	190
Dust From Material Movement	—	—	—	—	—	—	0.30	0.30	—	0.16	0.16	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.57	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	138	138	< 0.005	0.01	0.01	140
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.0	30.0	< 0.005	< 0.005	0.05	30.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.96	4.96	< 0.005	< 0.005	0.01	5.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Site Preparation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.63	3.05	28.0	28.3	0.05	1.17	—	1.17	1.08	—	1.08	—	5,298	5,298	0.21	0.04	—	5,316

Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.64	5.91	5.98	0.01	0.25	—	0.25	0.23	—	0.23	—	1,120	1,120	0.05	0.01	—	1,124
Dust From Material Movement	—	—	—	—	—	—	1.62	1.62	—	0.83	0.83	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.08	1.09	< 0.005	0.05	—	0.05	0.04	—	0.04	—	185	185	0.01	< 0.005	—	186
Dust From Material Movement	—	—	—	—	—	—	0.30	0.30	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.53	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	136	136	< 0.005	0.01	0.01	137

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	28.8	28.8	< 0.005	< 0.005	0.05	29.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.76	4.76	< 0.005	< 0.005	0.01	4.83
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Site Preparation (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	0.55	5.98	0.01	0.02	—	0.02	0.02	—	0.02	—	1,120	1,120	0.05	0.01	—	1,124
Dust From Material Movement	—	—	—	—	—	—	1.62	1.62	—	0.83	0.83	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.10	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	185	185	0.01	< 0.005	—	186
Dust From Material Movement	—	—	—	—	—	—	0.30	0.30	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.53	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	136	136	< 0.005	0.01	0.01	137
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	28.8	28.8	< 0.005	< 0.005	0.05	29.2

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.76	4.76	< 0.005	< 0.005	0.01	4.83
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Grading (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.89	1.59	14.2	17.3	0.03	0.60	—	0.60	0.55	—	0.55	—	2,960	2,960	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.34	3.04	3.69	0.01	0.13	—	0.13	0.12	—	0.12	—	633	633	0.03	0.01	—	635

Dust From Material Movement	—	—	—	—	—	—	0.59	0.59	—	0.29	0.29	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.56	0.67	< 0.005	0.02	—	0.02	0.02	—	0.02	—	105	105	< 0.005	< 0.005	—	105
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.51	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	125	125	< 0.005	< 0.005	0.43	127
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.11	0.01	0.99	0.60	< 0.005	0.01	0.19	0.20	0.01	0.05	0.06	—	705	705	0.09	0.11	1.34	742
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.9	24.9	< 0.005	< 0.005	0.04	25.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.22	0.13	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	151	151	0.02	0.02	0.12	158
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.13	4.13	< 0.005	< 0.005	0.01	4.19

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.0	25.0	< 0.005	< 0.005	0.02	26.2

3.8. Grading (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.29	2.04	17.8	0.03	0.06	—	0.06	0.06	—	0.06	—	2,960	2,960	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.44	3.80	0.01	0.01	—	0.01	0.01	—	0.01	—	633	633	0.03	0.01	—	635
Dust From Material Movement	—	—	—	—	—	—	0.59	0.59	—	0.29	0.29	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.69	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	105	105	< 0.005	< 0.005	—	105
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.51	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	125	125	< 0.005	< 0.005	0.43	127
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.11	0.01	0.99	0.60	< 0.005	0.01	0.19	0.20	0.01	0.05	0.06	—	705	705	0.09	0.11	1.34	742
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.9	24.9	< 0.005	< 0.005	0.04	25.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.22	0.13	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	151	151	0.02	0.02	0.12	158
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.13	4.13	< 0.005	< 0.005	0.01	4.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.0	25.0	< 0.005	< 0.005	0.02	26.2

3.9. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Architectural Coatings	4.27	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Architectural Coatings	4.27	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.45	4.06	5.59	0.01	0.15	—	0.15	0.13	—	0.13	—	1,036	1,036	0.04	0.01	—	1,039

Architectural Coating	1.84	1.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.74	1.02	< 0.005	0.03	—	0.03	0.02	—	0.02	—	171	171	0.01	< 0.005	—	172
Architectural Coatings	0.34	0.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.81	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	197	197	< 0.005	0.01	0.69	200
Vendor	0.02	0.01	0.25	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	191	191	0.02	0.03	0.41	200
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.72	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	184	184	< 0.005	0.01	0.02	187
Vendor	0.02	0.01	0.27	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	191	191	0.02	0.03	0.01	199
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.30	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	79.9	79.9	< 0.005	< 0.005	0.13	81.0
Vendor	0.01	< 0.005	0.11	0.07	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	82.4	82.4	0.01	0.01	0.08	86.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	0.02	13.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	0.01	14.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.33	2.82	14.8	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Architectural Coatings	4.27	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.33	2.82	14.8	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Architectural Coatings	4.27	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.14	1.22	6.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,036	1,036	0.04	0.01	—	1,039
Architectural Coatings	1.84	1.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.22	1.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	171	171	0.01	< 0.005	—	172
Architectural Coatings	0.34	0.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.81	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	197	197	< 0.005	0.01	0.69	200
Vendor	0.02	0.01	0.25	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	191	191	0.02	0.03	0.41	200
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.72	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	184	184	< 0.005	0.01	0.02	187
Vendor	0.02	0.01	0.27	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	191	191	0.02	0.03	0.01	199

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.30	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	79.9	79.9	< 0.005	< 0.005	0.13	81.0
Vendor	0.01	< 0.005	0.11	0.07	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	82.4	82.4	0.01	0.01	0.08	86.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	0.02	13.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	0.01	14.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Architectural Coatings	4.27	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Architectural Coatings	4.27	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.85	7.67	11.1	0.02	0.26	—	0.26	0.24	—	0.24	—	2,061	2,061	0.08	0.02	—	2,068
Architectural Coatings	3.67	3.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.40	2.03	< 0.005	0.05	—	0.05	0.04	—	0.04	—	341	341	0.01	< 0.005	—	342
Architectural Coatings	0.67	0.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.04	0.76	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	194	194	< 0.005	< 0.005	0.62	195

Vendor	0.02	0.01	0.24	0.14	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	186	186	0.01	0.03	0.37	194
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.68	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	181	181	< 0.005	0.01	0.02	183
Vendor	0.02	0.01	0.25	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	186	186	0.01	0.03	0.01	194
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.57	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	156	156	< 0.005	0.01	0.23	158
Vendor	0.02	< 0.005	0.21	0.12	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	160	160	0.01	0.02	0.14	167
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.8	25.8	< 0.005	< 0.005	0.04	26.2
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.4	26.4	< 0.005	< 0.005	0.02	27.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.33	2.81	14.8	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,406

Architectural Coatings	4.27	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.33	2.81	14.8	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,406
Architectural Coatings	4.27	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.28	2.42	12.7	0.02	0.06	—	0.06	0.06	—	0.06	—	2,061	2,061	0.08	0.02	—	2,068
Architectural Coatings	3.67	3.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.44	2.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	341	341	0.01	< 0.005	—	342

Architectural Coating	0.67	0.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.04	0.76	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	194	194	< 0.005	< 0.005	0.62	195
Vendor	0.02	0.01	0.24	0.14	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	186	186	0.01	0.03	0.37	194
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.68	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	181	181	< 0.005	0.01	0.02	183
Vendor	0.02	0.01	0.25	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	186	186	0.01	0.03	0.01	194
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.57	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	156	156	< 0.005	0.01	0.23	158
Vendor	0.02	< 0.005	0.21	0.12	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	160	160	0.01	0.02	0.14	167
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.8	25.8	< 0.005	< 0.005	0.04	26.2
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.4	26.4	< 0.005	< 0.005	0.02	27.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Building Construction (2029) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.15	0.97	8.58	12.9	0.02	0.28	—	0.28	0.25	—	0.25	—	2,397	2,397	0.10	0.02	—	2,405
Architectural Coatings	4.27	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.15	0.97	8.58	12.9	0.02	0.28	—	0.28	0.25	—	0.25	—	2,397	2,397	0.10	0.02	—	2,405
Architectural Coatings	4.27	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49	0.41	3.65	5.48	0.01	0.12	—	0.12	0.11	—	0.11	—	1,019	1,019	0.04	0.01	—	1,022
Architectural Coatings	1.81	1.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.67	1.00	< 0.005	0.02	—	0.02	0.02	—	0.02	—	169	169	0.01	< 0.005	—	169
Architectural Coatings	0.33	0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.04	0.72	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	191	191	< 0.005	< 0.005	0.56	192
Vendor	0.02	0.01	0.23	0.14	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	180	180	0.01	0.03	0.33	189
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.64	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	178	178	< 0.005	0.01	0.01	180
Vendor	0.02	0.01	0.24	0.14	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	180	180	0.01	0.03	0.01	189
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.26	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	75.9	75.9	< 0.005	< 0.005	0.10	77.0
Vendor	0.01	< 0.005	0.10	0.06	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	76.7	76.7	0.01	0.01	0.06	80.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.6	12.6	< 0.005	< 0.005	0.02	12.7

Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.7	12.7	< 0.005	< 0.005	0.01	13.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Building Construction (2029) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.33	2.81	14.8	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Architectural Coatings	4.27	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.33	2.81	14.8	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Architectural Coatings	4.27	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.15	0.14	1.20	6.30	0.01	0.03	—	0.03	0.03	—	0.03	—	1,019	1,019	0.04	0.01	—	1,022
Architectural Coatings	1.81	1.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.22	1.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	169
Architectural Coatings	0.33	0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.04	0.72	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	191	191	< 0.005	< 0.005	0.56	192
Vendor	0.02	0.01	0.23	0.14	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	180	180	0.01	0.03	0.33	189
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.64	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	178	178	< 0.005	0.01	0.01	180
Vendor	0.02	0.01	0.24	0.14	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	180	180	0.01	0.03	0.01	189
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.26	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	75.9	75.9	< 0.005	< 0.005	0.10	77.0

Vendor	0.01	< 0.005	0.10	0.06	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	76.7	76.7	0.01	0.01	0.06	80.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.6	12.6	< 0.005	< 0.005	0.02	12.7
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.7	12.7	< 0.005	< 0.005	0.01	13.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Paving (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	0.67	6.46	9.92	0.01	0.24	—	0.24	0.22	—	0.22	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.46	0.71	< 0.005	0.02	—	0.02	0.02	—	0.02	—	108	108	< 0.005	< 0.005	—	108
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.8	17.8	< 0.005	< 0.005	—	17.9
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.45	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	120	120	< 0.005	< 0.005	0.35	121
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.03	8.03	< 0.005	< 0.005	0.01	8.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.33	1.33	< 0.005	< 0.005	< 0.005	1.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Paving (2029) - Mitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.14	0.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	108	108	< 0.005	< 0.005	—	108
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.8	17.8	< 0.005	< 0.005	—	17.9
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.05	0.04	0.03	0.45	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	120	120	< 0.005	< 0.005	0.35	121
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.03	8.03	< 0.005	< 0.005	0.01	8.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.33	1.33	< 0.005	< 0.005	< 0.005	1.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	2.12	1.97	1.24	14.9	0.04	0.02	3.75	3.78	0.02	0.95	0.97	—	3,866	3,866	0.15	0.14	10.3	3,921
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	2.12	1.97	1.24	14.9	0.04	0.02	3.75	3.78	0.02	0.95	0.97	—	3,866	3,866	0.15	0.14	10.3	3,921
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	2.07	1.91	1.46	14.4	0.04	0.02	3.75	3.78	0.02	0.95	0.97	—	3,655	3,655	0.17	0.15	0.27	3,705
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.07	1.91	1.46	14.4	0.04	0.02	3.75	3.78	0.02	0.95	0.97	—	3,655	3,655	0.17	0.15	0.27	3,705
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.36	0.34	0.25	2.48	0.01	< 0.005	0.65	0.66	< 0.005	0.16	0.17	—	594	594	0.03	0.02	0.72	602
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.36	0.34	0.25	2.48	0.01	< 0.005	0.65	0.66	< 0.005	0.16	0.17	—	594	594	0.03	0.02	0.72	602

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	2.12	1.97	1.24	14.9	0.04	0.02	3.75	3.78	0.02	0.95	0.97	—	3,866	3,866	0.15	0.14	10.3	3,921
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.12	1.97	1.24	14.9	0.04	0.02	3.75	3.78	0.02	0.95	0.97	—	3,866	3,866	0.15	0.14	10.3	3,921
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	2.07	1.91	1.46	14.4	0.04	0.02	3.75	3.78	0.02	0.95	0.97	—	3,655	3,655	0.17	0.15	0.27	3,705
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.07	1.91	1.46	14.4	0.04	0.02	3.75	3.78	0.02	0.95	0.97	—	3,655	3,655	0.17	0.15	0.27	3,705
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.36	0.34	0.25	2.48	0.01	< 0.005	0.65	0.66	< 0.005	0.16	0.17	—	594	594	0.03	0.02	0.72	602
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.36	0.34	0.25	2.48	0.01	< 0.005	0.65	0.66	< 0.005	0.16	0.17	—	594	594	0.03	0.02	0.72	602

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	259	259	0.04	0.01	—	262
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.61	4.61	< 0.005	< 0.005	—	4.65
Total	—	—	—	—	—	—	—	—	—	—	—	—	264	264	0.04	0.01	—	266
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	259	259	0.04	0.01	—	262
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.61	4.61	< 0.005	< 0.005	—	4.65
Total	—	—	—	—	—	—	—	—	—	—	—	—	264	264	0.04	0.01	—	266
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	42.9	42.9	0.01	< 0.005	—	43.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.76	0.76	< 0.005	< 0.005	—	0.77
Total	—	—	—	—	—	—	—	—	—	—	—	—	43.7	43.7	0.01	< 0.005	—	44.1

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	259	259	0.04	0.01	—	262
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.61	4.61	< 0.005	< 0.005	—	4.65
Total	—	—	—	—	—	—	—	—	—	—	—	—	264	264	0.04	0.01	—	266
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	259	259	0.04	0.01	—	262

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.61	4.61	< 0.005	< 0.005	—	4.65
Total	—	—	—	—	—	—	—	—	—	—	—	—	264	264	0.04	0.01	—	266
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	42.9	42.9	0.01	< 0.005	—	43.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.76	0.76	< 0.005	< 0.005	—	0.77
Total	—	—	—	—	—	—	—	—	—	—	—	—	43.7	43.7	0.01	< 0.005	—	44.1

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	798	798	0.07	< 0.005	—	800
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	798	798	0.07	< 0.005	—	800
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	798	798	0.07	< 0.005	—	800
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	798	798	0.07	< 0.005	—	800
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	0.01	0.01	0.11	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	132	132	0.01	< 0.005	—	132
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.01	0.11	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	132	132	0.01	< 0.005	—	132

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	798	798	0.07	< 0.005	—	800
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	798	798	0.07	< 0.005	—	800
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	798	798	0.07	< 0.005	—	800
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.07	0.04	0.63	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	798	798	0.07	< 0.005	—	800
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.01	0.01	0.11	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	132	132	0.01	< 0.005	—	132

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.01	0.11	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	132	132	0.01	< 0.005	—	132

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.03	0.01	0.22	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	278	278	0.01	< 0.005	—	278
Consumer Products	4.06	4.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.73	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.34	0.32	0.04	3.75	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.0	10.0	< 0.005	< 0.005	—	10.0
Total	5.16	5.13	0.25	3.85	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	288	288	0.01	< 0.005	—	288
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.03	0.01	0.22	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	278	278	0.01	< 0.005	—	278
Consumer Products	4.06	4.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	0.73	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	4.82	4.81	0.22	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	278	278	0.01	< 0.005	—	278
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.13	1.13	< 0.005	< 0.005	—	1.14
Consumer Products	0.74	0.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.03	0.03	< 0.005	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.82	0.82	< 0.005	< 0.005	—	0.82
Total	0.91	0.90	< 0.005	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.95	1.95	< 0.005	< 0.005	—	1.96

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.03	0.01	0.22	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	278	278	0.01	< 0.005	—	278
Consumer Products	4.06	4.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.73	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	0.34	0.32	0.04	3.75	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.0	10.0	< 0.005	< 0.005	—	10.0
Total	5.16	5.13	0.25	3.85	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	288	288	0.01	< 0.005	—	288
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.03	0.01	0.22	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	278	278	0.01	< 0.005	—	278
Consumer Products	4.06	4.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.73	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	4.82	4.81	0.22	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	278	278	0.01	< 0.005	—	278
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.13	1.13	< 0.005	< 0.005	—	1.14
Consumer Products	0.74	0.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.03	0.03	< 0.005	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.82	0.82	< 0.005	< 0.005	—	0.82
Total	0.91	0.90	< 0.005	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.95	1.95	< 0.005	< 0.005	—	1.96

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.63	1.44	2.07	0.07	< 0.005	—	4.17
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.63	1.44	2.07	0.07	< 0.005	—	4.17

4.4.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.82	8.69	12.5	0.39	0.01	—	25.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.63	1.44	2.07	0.07	< 0.005	—	4.17
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.63	1.44	2.07	0.07	< 0.005	—	4.17

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2.81	0.00	2.81	0.28	0.00	—	9.84
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.81	0.00	2.81	0.28	0.00	—	9.84

4.5.2. Mitigated

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

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

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.0	0.00	17.0	1.70	0.00	—	59.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2.81	0.00	2.81	0.28	0.00	—	9.84
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.81	0.00	2.81	0.28	0.00	—	9.84

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.36	1.36
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	7/1/2026	9/30/2026	6.00	79.0	—

Site Preparation	Site Preparation	10/1/2026	3/31/2027	6.00	156	—
Grading	Grading	4/1/2027	6/30/2027	6.00	78.0	—
Building Construction	Building Construction	7/1/2027	6/30/2029	6.00	627	—
Paving	Paving	7/1/2029	7/31/2029	6.00	26.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—

Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	36.8	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	9.94	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	23.8	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	7.06	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—

Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	36.8	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	9.94	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	23.8	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	7.06	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Building Construction	384,361	128,120	0.00	0.00	565

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	8,500	79.0	140,805	—
Site Preparation	0.00	0.00	234	0.00	—
Grading	0.00	6,200	78.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.94

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	0.73	0%
Parking Lot	0.22	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O

2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005
2029	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	623	630	564	224,691	5,283	5,339	4,785	1,905,299
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	623	630	564	224,691	5,283	5,339	4,785	1,905,299
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	13
Propane Fireplaces	0

Electric Fireplaces	0
No Fireplaces	53
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	13
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	53
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
384361.2	128,120	0.00	0.00	565

5.10.3. Landscape Equipment

Season	Unit	Value

Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	463,890	204	0.0330	0.0040	2,490,188
Parking Lot	8,242	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	463,890	204	0.0330	0.0040	2,490,188
Parking Lot	8,242	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	1,994,652	533,670
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	1,994,652	533,670
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	31.5	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	31.5	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	9.43	annual days of extreme heat
Extreme Precipitation	15.4	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	7.20	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	4	0	0	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	4	1	1	4
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	10.6

AQ-PM	14.7
AQ-DPM	5.51
Drinking Water	5.55
Lead Risk Housing	14.1
Pesticides	0.00
Toxic Releases	25.9
Traffic	58.9
Effect Indicators	—
CleanUp Sites	2.07
Groundwater	35.0
Haz Waste Facilities/Generators	26.7
Impaired Water Bodies	12.5
Solid Waste	0.00
Sensitive Population	—
Asthma	16.3
Cardio-vascular	3.78
Low Birth Weights	1.68
Socioeconomic Factor Indicators	—
Education	12.0
Housing	20.6
Linguistic	13.3
Poverty	10.7
Unemployment	33.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—

Above Poverty	85.39715129
Employed	48.77454125
Median HI	85.07635057
Education	—
Bachelor's or higher	88.66931862
High school enrollment	100
Preschool enrollment	80.93160529
Transportation	—
Auto Access	88.68215065
Active commuting	52.03387656
Social	—
2-parent households	90.42730656
Voting	98.99910176
Neighborhood	—
Alcohol availability	78.13422302
Park access	81.35506224
Retail density	39.31733607
Supermarket access	41.88374182
Tree canopy	88.86179905
Housing	—
Homeownership	82.99756191
Housing habitability	93.08353651
Low-inc homeowner severe housing cost burden	68.45887335
Low-inc renter severe housing cost burden	83.61349929
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	82.81791351
Arthritis	0.0

Asthma ER Admissions	91.6
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	82.1
Cognitively Disabled	58.3
Physically Disabled	47.8
Heart Attack ER Admissions	98.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	89.7
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	79.7
Children	88.7
Elderly	8.1
English Speaking	86.1
Foreign-born	19.0

Outdoor Workers	69.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	87.1
Traffic Density	46.5
Traffic Access	23.0
Other Indices	—
Hardship	8.4
Other Decision Support	—
2016 Voting	99.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	1.00
Healthy Places Index Score for Project Location (b)	93.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on applicant provided information
Construction: Construction Phases	Based on applicant provided construction schedule and 6 day work weeks per municipal code.
Construction: Dust From Material Movement	Based on applicant provided information
Construction: Trips and VMT	The project would remove approximately ~146,000 square feet of asphalt during the demolition phase
Construction: Architectural Coatings	Conservatively assuming that coating emissions would occur during the building construction phase.

Appendix B

Construction Health Risk Assessment

Wood Hollow Residences Project - Unmitigated Risk

Construction Modeling Assumptions

AERMOD Sources

PolyAreas		
Offroad Construction Exhaust		
Release Height	5	m
Emissions rate	1	g/s
Init Vert Dimension	1.4	m
SCAQMD LST Guidance, 2008		
Line Volume		
Onroad Hauling Exhaust		
Vehicle Height	14	ft
Plume Height	7.25	m
Plume Width	9.05	m
Release Height	3.63	m
Emissions rate	1	g/s
EPA Haul Road Guidance & Caltrans Heigh & Low Clearance Guidance[1]		

[1] USEPA Haul Road Workgroup Final Report Dec 6, 2011, Page 4.

https://www.epa.gov/sites/default/files/2020-10/documents/haul_road_workgroup-final_report_package-20120302.pdf

Meteorology: Napa County Airport

Wood Hollow Residences Project - Unmitigated Risk

Health Risk Assessment Risk Factors

Residential Risk	Abbreviation	UOM	3rd Trimester	0<2	2<16	16<30
Daily Breathing Rate	DBR	L/kg-day	361	1090	572	261
Fraction Of Time At Home	FAH	unitless	0.85	0.85	0.72	0.73
Exposure Frequency	EF	days/year	0.96	0.96	0.96	0.96
Age Sensitivity Factor	ASF	unitless	10	10	3	1
Inhalation Absorption Factor	A	unitless	1	1	1	1
Conversion Factor	CF_1	m^3/L	0.001	0.001	0.001	0.001
Conversion Factor	CF_2	$\mu g/m^3$	0.001	0.001	0.001	0.001
Cancer Potency Factor (diesel exhaust)	CPF	$mg/kg\text{-}day^{-1}$	1.1	1.1	1.1	1.1
Averaging Time (for residential exposure)	AT	years	30.00	30.00	30.00	70.00

Risk Factors

Wood Hollow Residences Project - Unmitigated Risk

Health Risk Assessment Exposure Duration Assumptions for Offroad Equipment

Residential Receptors

			Start Date	*7/1/2026*	*9/30/2026*	*9/30/2028*
OFFROAD			*End Date*	*9/29/2026*	*9/29/2028*	*9/27/2042*
	7/1/2026	*7/31/2029*	*Days*	*90*	*730*	*5110*
Phase	Start Date	End Date	Duration (days)	3rd Tri	0<2	02<16
Demolition	7/1/2026	9/30/2026	92	91	0	0
Site Preparation -2026	10/1/2026	12/31/2026	92	0	92	0
Site Preparation -2027	1/1/2027	3/31/2027	90	0	90	0
Grading	4/1/2027	6/30/2027	91	0	91	0
Building Construction -2027	7/1/2027	12/31/2027	184	0	184	0
Building Construction -2028	1/1/2028	12/31/2028	366	0	273	93
Building Construction -2029	1/1/2029	6/30/2029	181	0	0	181
Paving - 2029	7/1/2029	7/31/2029	31	0	0	31

Intake Factor for Inhalation, IF (m^3/kg-day)

Phase	Year	Equation	3rd Trimester	0<2	2<16
Demolition	2026	$\frac{DBR \cdot FAH \cdot EF \cdot ED \cdot ASF \cdot A \cdot CF_1}{AT}$	0.024452799	0	0
Site Preparation -2026	2026		0	0.074643898	0
Site Preparation -2027	2027		0	0.073021205	0
Grading	2027		0	0.073832551	0
Building Construction -2027	2027		0	0.149287796	0
Building Construction -2028	2028		0	0.221497654	0.010073719
Building Construction -2029	2029		0	0	0.019605841
Paving - 2029	2029		0	0	0.003357906

Risk Calculation Part 1, R1

Equation	3rd Trimester	0<2	2<16
$IF \cdot CPF \cdot CF_2$	2.68981E-05	0	0
	0	8.21083E-05	0
	0	8.03233E-05	0
	0	8.12158E-05	0
	0	0.000164217	0
	0	0.000243647	1.108E-05
	0	0	2.157E-05
	0	0	3.694E-06

Wood Hollow Residences Project - Unmitigated Risk

Offroad DPM Emissions, Ground Level Concentrations and Health Risk Calculations
Residential Receptors

Phase	Year	Emissions (lbs/day)	Work Hours Per Day	Emissions (g/s)
Demolition	2026	0.843	10	0.010622666
Site Preparation -2026	2026	1.243	10	0.015655318
Site Preparation -2027	2027	1.172	10	0.014763514
Grading	2027	0.598	10	0.007530493
Building Construction -2027	2027	0.337	10	0.004240743
Building Construction -2028	2028	0.300	10	0.003782919
Building Construction -2029	2029	0.276	10	0.003473015
Paving - 2029	2029	0.239	10	0.003011872

Risk Summary	
Maximum Risk, Uncontrolled	16.14
UTM X	537577
UTM Y	4219756

AERMOD Column Identifier:			*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*					
			Demolition	Site Preparation -2026	Site Preparation - 2027	Grading	Building Construction -2027	Building Construction - 2028	Building Construction - 2029	Paving - 2029	Child Risk				
Unique Identifier	X (UTM)	Y (UTM)	2026	2026	2027	2027	2027	2028	2029	2029	3rd Trimester	0<2	2<16	Total	per million
5375714219724	537571	4219724	0.028158243	0.041498646	0.039134681	0.019961604	0.011241234	0.010027649	0.009206163	0.007983781	7.57403E-07	1.24612E-05	3.39151E-07	1.35578E-05	13.55776983
5375754219738	537575	4219738	0.031285875	0.046108041	0.043481502	0.022178807	0.012489836	0.011141454	0.010228723	0.008870567	8.4153E-07	1.38453E-05	3.76822E-07	1.50637E-05	15.06367723
5375774219756	537577	4219756	0.033525982	0.049409435	0.046594832	0.023766838	0.013384124	0.011939196	0.010961112	0.00950571	9.01785E-07	1.48367E-05	4.03803E-07	1.61423E-05	16.14225534
5375474219848	537547	4219848	0.022383444	0.032987946	0.031108792	0.015867803	0.008935839	0.007971141	0.007318128	0.006346437	6.02072E-07	9.90562E-06	2.69597E-07	1.07773E-05	10.77729079
5375104219859	537510	4219859	0.01633426	0.024072869	0.022701561	0.011579488	0.006520906	0.00581692	0.005340385	0.004631296	4.3936E-07	7.2286E-06	1.96737E-07	7.8647E-06	7.864700259
5374624219861	537462	4219861	0.014516616	0.021394087	0.020175376	0.010290946	0.005795272	0.005169624	0.004746118	0.004115934	3.90469E-07	6.42422E-06	1.74845E-07	6.98953E-06	6.989531914
5374364219822	537436	4219822	0.016049998	0.023653932	0.022306489	0.011377972	0.006407423	0.005715689	0.005247447	0.004550698	4.31714E-07	7.1028E-06	1.93314E-07	7.72783E-06	7.727832134
5374284219802	537428	4219802	0.015877167	0.02339922	0.022066287	0.011255451	0.006338427	0.005654141	0.005190941	0.004501695	4.27065E-07	7.02632E-06	1.91232E-07	7.64462E-06	7.644616723
5373974219826	537397	4219826	0.013335057	0.019652746	0.01853323	0.009453329	0.005323574	0.00474885	0.004359814	0.003780924	3.58687E-07	5.90133E-06	1.60614E-07	6.42063E-06	6.420629014
5373694219842	537369	4219842	0.012293186	0.018117273	0.017085225	0.008714738	0.004907642	0.004377821	0.004019181	0.003485519	3.30663E-07	5.44026E-06	1.48065E-07	5.91898E-06	5.918983808
5373464219851	537346	4219851	0.011866049	0.017487772	0.016491584	0.008411937	0.004737122	0.00422571	0.003879531	0.003364412	3.19174E-07	5.25123E-06	1.4292E-07	5.71332E-06	5.713323594
5373274219864	537327	4219864	0.010458333	0.01541313	0.014535123	0.007413996	0.004175139	0.003724398	0.003419287	0.002965279	2.81309E-07	4.62826E-06	1.25965E-07	5.03553E-06	5.035529724
5373084219872	537308	4219872	0.009329993	0.013750222	0.012966942	0.006614107	0.003724687	0.003322576	0.003050384	0.002645358	2.50959E-07	4.12892E-06	1.12375E-07	4.49225E-06	4.492251238
5373284219929	537328	4219929	0.006517643	0.009605477	0.009058302	0.004620409	0.00260195	0.002321048	0.002130903	0.001847964	1.75312E-07	2.88433E-06	7.85015E-08	3.13815E-06	3.138146748
5373704219959	537370	4219959	0.004877397	0.007188139	0.006778668	0.003457626	0.001947137	0.001736927	0.001594635	0.001382901	1.31193E-07	2.15845E-06	5.87456E-08	2.34839E-06	2.348393114
5373204219970	537320	4219970	0.004876866	0.007187356	0.006777929	0.003457249	0.001946925	0.001736738	0.001594461	0.001382751	1.31178E-07	2.15822E-06	5.87392E-08	2.34814E-06	2.348137382
5373804219975	537380	4219975	0.004297824	0.006333985	0.00597317	0.003046762	0.001715762	0.001530531	0.001405147	0.001218573	1.15603E-07	1.90197E-06	5.1765E-08	2.06934E-06	2.069337624
5373304219998	537330	4219998	0.004092382	0.006031211	0.005687644	0.002901122	0.001633746	0.00145737	0.001337979	0.001160324	1.10077E-07	1.81105E-06	4.92906E-08	1.97042E-06	1.970420227
5373864219995	537386	4219995	0.003712197	0.005470907	0.005159258	0.002631606	0.00148197	0.001321979	0.00121368	0.001052529	9.9851E-08	1.6428E-06	4.47114E-08	1.78737E-06	1.787366781
5373864220023	537386	4220023	0.003133261	0.004617692	0.004354646	0.002221194	0.00125085	0.00111581	0.0010244	0.000888382	8.42787E-08	1.3866E-06	3.77385E-08	1.50862E-06	1.50861817
5374254220024	537425	4220024	0.002953632	0.004352961	0.004104995	0.002093854	0.001179139	0.001051841	0.000965672	0.000837451	7.9447E-08	1.30711E-06	3.55749E-08	1.42213E-06	1.422129381
5374294220041	537429	4220041	0.002716747	0.004003847	0.003775769	0.001925924	0.00108457	0.000967482	0.000888224	0.000770286	7.30753E-08	1.20228E-06	3.27218E-08	1.30807E-06	1.30807261
5373984220063	537398	4220063	0.002462653	0.003629372	0.003422626	0.001745794	0.000983131	0.000876994	0.000805149	0.000698242	6.62406E-08	1.08983E-06	2.96613E-08	1.18573E-06	1.185730101
5374014220082	537401	4220082	0.002240745	0.003302333	0.003114216	0.001588482	0.000894542	0.000797969	0.000732598	0.000635324	6.02717E-08	9.91625E-07	2.69886E-08	1.07888E-06	1.078884991
5374084220102	537408	4220102	0.002043588	0.00301177	0.002840205	0.001448716	0.000815834	0.000727758	0.000668139	0.000579424	5.49686E-08	9.04374E-07	2.46139E-08	9.83957E-07	0.983957023
5375124219962	537512	4219962	0.004489776	0.006616877	0.006239947	0.003182838	0.001792392	0.001598889	0.001467904	0.001272998	1.20766E-07	1.98692E-06	5.4077E-08	2.16176E-06	2.161759411
5375634219961	537563	4219961	0.005939876	0.008753984	0.008255314	0.004210826	0.002371296	0.002115295	0.001942006	0.001684149	1.59771E-07	2.62865E-06	7.15426E-08	2.85996E-06	2.859960749
5375264220026	537526	4220026	0.003367173	0.004962423	0.004679739	0.002387016	0.001344231	0.00119911	0.001100876	0.000954703	9.05705E-08	1.49012E-06	4.05558E-08	1.62124E-06	1.621242839
5375234220064	537523	4220064	0.002886284	0.004253706	0.004011394	0.00204611	0.001152252	0.001027857	0.000943653	0.000818356	7.76355E-08	1.2773E-06	3.47638E-08	1.3897E-06	1.389702479
5374854220057	537485	4220057	0.002518103	0.003711093	0.003499691	0.001785103	0.001005268	0.000896741	0.000823278	0.000713964	6.77321E-08	1.11437E-06	3.03292E-08	1.21243E-06	1.212428591
5375204220090	537520	4220090	0.002624648	0.003868116	0.003647769	0.001860634	0.001047803	0.000934684	0.000858112	0.000744173	7.0598E-08	1.16152E-06	3.16125E-08	1.26373E-06	1.263728565

5374764220098	537476	4220098	0.002153745	0.003174116	0.002993303	0.001526807	0.000859811	0.000766987	0.000704154	0.000610657	5.79316E-08	9.53124E-07	2.59407E-08	1.037E-06	1.036995979
5375224220118	537522	4220118	0.002452455	0.003614343	0.003408453	0.001738565	0.00097906	0.000873363	0.000801815	0.000695351	6.59663E-08	1.08532E-06	2.95385E-08	1.18082E-06	1.180820033
5374724220119	537472	4220119	0.002015863	0.00297091	0.002801672	0.001429062	0.000804766	0.000717885	0.000659074	0.000571563	5.42228E-08	8.92105E-07	2.428E-08	9.70608E-07	0.970607778
5374714220147	537471	4220147	0.001895402	0.002793378	0.002634254	0.001343666	0.000756676	0.000674986	0.00061969	0.000537408	5.09827E-08	8.38796E-07	2.28291E-08	9.12608E-07	0.912607608
5375204220145	537520	4220145	0.002238621	0.003299202	0.003111263	0.001586976	0.000893694	0.000797212	0.000731903	0.000634722	6.02146E-08	9.90684E-07	2.6963E-08	1.07786E-06	1.07786206
5375224220166	537522	4220166	0.002111998	0.00311259	0.002935282	0.001497213	0.000843145	0.00075212	0.000690505	0.00059882	5.68087E-08	9.34649E-07	2.54379E-08	1.0169E-06	1.016895391
537988.414219932.15	537988.41	4219932.2	0.021472656	0.031645659	0.029842968	0.015222138	0.008572238	0.007646793	0.007020352	0.006088199	5.77573E-07	9.50256E-06	2.58627E-07	1.03388E-05	10.33876041
537975.134219953.4	537975.13	4219953.4	0.023409806	0.034500563	0.032535242	0.016595399	0.00934558	0.008336647	0.007653691	0.006637444	6.29679E-07	1.03598E-05	2.81959E-07	1.12715E-05	11.2714686
537969.164219968.01	537969.16	4219968	0.024128216	0.035559332	0.033533699	0.017104686	0.009632381	0.008592485	0.007888571	0.006841137	6.49003E-07	1.06778E-05	2.90611E-07	1.16174E-05	11.61737261
537945.254219984.61	537945.25	4219984.6	0.0282701	0.041663497	0.039290141	0.0200409	0.011285889	0.010067483	0.009242734	0.008015496	7.60411E-07	1.25107E-05	3.40498E-07	1.36116E-05	13.61162713
537951.894219999.88	537951.89	4219999.9	0.026289929	0.038745189	0.036538074	0.018637141	0.010495372	0.009362309	0.008595329	0.007454053	7.07149E-07	1.16344E-05	3.16648E-07	1.26582E-05	12.65820458
537957.24220015.15	537957.2	4220015.2	0.024712038	0.036419748	0.034345102	0.017518562	0.009865452	0.008800395	0.008079448	0.007006669	6.64706E-07	1.09361E-05	2.97643E-07	1.18985E-05	11.89847397
537933.964220011.83	537933.96	4220011.8	0.029203195	0.04303866	0.040586968	0.020702379	0.011658396	0.010399775	0.009547804	0.008280059	7.8551E-07	1.29237E-05	3.51737E-07	1.40609E-05	14.06089828
537929.984220034.41	537929.98	4220034.4	0.028524619	0.042038598	0.039643875	0.020221331	0.011387498	0.010158122	0.009325947	0.00808766	7.67257E-07	1.26234E-05	3.43564E-07	1.37342E-05	13.73417422
537942.594220029.76	537942.59	4220029.8	0.026559851	0.03914299	0.036913215	0.018828491	0.01060313	0.009458433	0.008683579	0.007530585	7.14409E-07	1.17539E-05	3.19899E-07	1.27882E-05	12.78816793
537957.24220025.77	537957.2	4220025.8	0.024284582	0.035789778	0.033751018	0.017215535	0.009694805	0.00864817	0.007939694	0.006885472	6.53209E-07	1.0747E-05	2.92495E-07	1.16927E-05	11.69266031
537934.634220050.34	537934.63	4220050.3	0.026681587	0.0393224	0.037082405	0.018914791	0.010651729	0.009501786	0.008723379	0.007565101	7.17683E-07	1.18077E-05	3.21365E-07	1.28468E-05	12.84678185
537949.244220045.03	537949.24	4220045	0.024684738	0.036379514	0.034307159	0.017499209	0.009854554	0.008790673	0.008070522	0.006998929	6.63972E-07	1.0924E-05	2.97314E-07	1.18853E-05	11.88532931
537962.524220038.39	537962.52	4220038.4	0.022962698	0.03384163	0.031913846	0.01627844	0.009167087	0.008177423	0.007507512	0.006510674	6.17652E-07	1.0162E-05	2.76573E-07	1.10562E-05	11.05619284
537963.844219981.95	537963.84	4219982	0.024690687	0.036388281	0.034315427	0.017503426	0.009856929	0.008792791	0.008072467	0.007000615	6.64132E-07	1.09267E-05	2.97386E-07	1.18882E-05	11.88819351
537981.114219975.97	537981.11	4219976	0.021878548	0.032243849	0.030407082	0.015509878	0.008734277	0.007791339	0.007153056	0.006203282	5.88491E-07	9.68218E-06	2.63515E-07	1.05342E-05	10.53419131
537990.44219970.66	537990.4	4219970.7	0.020545298	0.03027895	0.028554113	0.014564726	0.008202021	0.007316544	0.006717158	0.005825262	5.52629E-07	9.09217E-06	2.47457E-07	9.89225E-06	9.892251165
537973.144219998.55	537973.14	4219998.6	0.022614593	0.033328606	0.031430046	0.016031666	0.009028118	0.008053457	0.007393701	0.006411975	6.08289E-07	1.00079E-05	2.72381E-07	1.08886E-05	10.88858565
537984.434219993.9	537984.43	4219993.9	0.020983589	0.030924888	0.029163256	0.014875434	0.008376994	0.007472628	0.006860454	0.005949532	5.64418E-07	9.28613E-06	2.52736E-07	1.01033E-05	10.10328176
537996.384219988.59	537996.38	4219988.6	0.019396669	0.02858614	0.026957734	0.013750454	0.007743469	0.006907497	0.006341621	0.005499589	5.21733E-07	8.58385E-06	2.33623E-07	9.3392E-06	9.339203691
537978.454220013.82	537978.45	4220013.8	0.02139288	0.031528087	0.029732094	0.015165584	0.00854039	0.007618384	0.00699427	0.00606558	5.75427E-07	9.46726E-06	2.57666E-07	1.03003E-05	10.30034936
537991.074220006.52	537991.07	4220006.5	0.019788326	0.029163352	0.027502065	0.014028103	0.007899826	0.007046974	0.006469671	0.005610636	5.32268E-07	8.75717E-06	2.3834E-07	9.52778E-06	9.527780962
538003.024220001.21	538003.02	4220001.2	0.018340563	0.027029689	0.025489946	0.013001772	0.007321855	0.0065314	0.005996334	0.005200148	4.93326E-07	8.11648E-06	2.20902E-07	8.8307E-06	8.830704849
537984.434220030.42	537984.43	4220030.4	0.020139087	0.02968029	0.027989556	0.01427676	0.008039855	0.007171886	0.00658435	0.005710088	5.41703E-07	8.9124E-06	2.42565E-07	9.69667E-06	9.696666818
537997.044220024.45	537997.04	4220024.5	0.018675177	0.027522831	0.025954996	0.013238983	0.007455438	0.006650562	0.006105733	0.005295022	5.02326E-07	8.26456E-06	2.24933E-07	8.99182E-06	8.991816431
538011.654220019.8	538011.65	4220019.8	0.017064569	0.025149172	0.023716552	0.01209721	0.006812457	0.006076995	0.005579155	0.004838362	4.59004E-07	7.55179E-06	2.05534E-07	8.21633E-06	8.216332681

Wood Hollow Residences Project - Unmitigated Risk

Offroad DPM Emissions, Ground Level Concentrations and Health Risk Calculations
Residential Receptors

Phase	Year	Emissions (lbs/day)	Days Per Year	Work Hours Per Day	Emissions (g/s)	Wt. Trip Length (mi)	Modeled Trip Length (mi)
Demolition	2026	0.0487		10	0.000613497		
Site Preparation -2026	2026	0.0000		10	0		
Site Preparation -2027	2027	0.0000		10	0		
Grading	2027	0.0088		10	0.000110398		
Building Construction -2027	2027	0.0000		10	0		
Building Construction -2028	2028	0.0000		10	0		
Building Construction -2029	2029	0.0000		10	0		
Paving - 2029	2029	0.0000		10	0		

Risk Summary	
Maximum Risk, Uncontrolled	0.030959
UTM X	537988.41
UTM Y	4219932.15

		AERMOD Column Identifier:	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*					
			Demolition	Site Preparation - 2026	Site Preparation -2027	Grading	Building Construction - 2027	Building Construction - 2028	Building Construction - 2029	Paving - 2029	Child Risk				
Unique Identifier	X (UTM)	Y (UTM)	2026	2026	2027	2027	2027	2028	2029	2029	3rd Trimester	0<2	2<16	Total	per million
5375714219724	537571	4219724	0.000497656	0	0	8.95529E-05	0	0	0	0	1.3386E-08	7.27311E-09	0	2.06591E-08	0.02065911
5375754219738	537575	4219738	0.000515509	0	0	9.27655E-05	0	0	0	0	1.38662E-08	7.53402E-09	0	2.14002E-08	0.02140023
5375774219756	537577	4219756	0.00050373	0	0	9.06458E-05	0	0	0	0	1.35494E-08	7.36187E-09	0	2.09112E-08	0.02091124
5375474219848	537547	4219848	0.000193067	0	0	3.47423E-05	0	0	0	0	5.19314E-09	2.82163E-09	0	8.01477E-09	0.00801477
5375104219859	537510	4219859	0.000160748	0	0	2.89266E-05	0	0	0	0	4.32382E-09	2.34929E-09	0	6.67312E-09	0.00667312
5374624219861	537462	4219861	0.000164988	0	0	2.96894E-05	0	0	0	0	4.43785E-09	2.41125E-09	0	6.8491E-09	0.00684910
5374364219822	537436	4219822	0.000209828	0	0	3.77584E-05	0	0	0	0	5.64397E-09	3.06658E-09	0	8.71056E-09	0.00871056
5374284219802	537428	4219802	0.000232822	0	0	4.18961E-05	0	0	0	0	6.26247E-09	3.40263E-09	0	9.66509E-09	0.00966509
5373974219826	537397	4219826	0.000186141	0	0	3.34959E-05	0	0	0	0	5.00684E-09	2.7204E-09	0	7.72724E-09	0.00772724
5373694219842	537369	4219842	0.000171736	0	0	3.09038E-05	0	0	0	0	4.61937E-09	2.50988E-09	0	7.12925E-09	0.00712925
5373464219851	537346	4219851	0.000168718	0	0	3.03606E-05	0	0	0	0	4.53818E-09	2.46576E-09	0	7.00395E-09	0.00700395
5373274219864	537327	4219864	0.000153037	0	0	2.75389E-05	0	0	0	0	4.1164E-09	2.23659E-09	0	6.35299E-09	0.00635299
5373084219872	537308	4219872	0.000141558	0	0	2.54733E-05	0	0	0	0	3.80765E-09	2.06883E-09	0	5.87648E-09	0.00587648
5373284219929	537328	4219929	0.00010838	0	0	1.9503E-05	0	0	0	0	2.91522E-09	1.58395E-09	0	4.49917E-09	0.00449917
5373704219959	537370	4219959	8.81534E-05	0	0	1.58631E-05	0	0	0	0	2.37116E-09	1.28834E-09	0	3.65949E-09	0.00365949
5373204219970	537320	4219970	9.12699E-05	0	0	1.6424E-05	0	0	0	0	2.45499E-09	1.33388E-09	0	3.78887E-09	0.00378887
5373804219975	537380	4219975	8.15337E-05	0	0	1.46719E-05	0	0	0	0	2.1931E-09	1.19159E-09	0	3.38469E-09	0.00338469
5373304219998	537330	4219998	8.20184E-05	0	0	1.47591E-05	0	0	0	0	2.20614E-09	1.19868E-09	0	3.40481E-09	0.00340481
5373864219995	537386	4219995	7.50368E-05	0	0	1.35028E-05	0	0	0	0	2.01835E-09	1.09664E-09	0	3.11499E-09	0.00311499
5373864220023	537386	4220023	6.88896E-05	0	0	1.23966E-05	0	0	0	0	1.853E-09	1.0068E-09	0	2.8598E-09	0.00285980
5374254220024	537425	4220024	6.60736E-05	0	0	1.18899E-05	0	0	0	0	1.77725E-09	9.65647E-10	0	2.7429E-09	0.00274290
5374294220041	537429	4220041	6.4092E-05	0	0	1.15333E-05	0	0	0	0	1.72395E-09	9.36687E-10	0	2.66064E-09	0.00266064
5373984220063	537398	4220063	6.08834E-05	0	0	1.09559E-05	0	0	0	0	1.63765E-09	8.89794E-10	0	2.52744E-09	0.00252744
5374014220082	537401	4220082	5.82147E-05	0	0	1.04757E-05	0	0	0	0	1.56586E-09	8.50792E-10	0	2.41666E-09	0.00241666
5374084220102	537408	4220102	5.573E-05	0	0	1.00286E-05	0	0	0	0	1.49903E-09	8.14479E-10	0	2.31351E-09	0.00231351
5375124219962	537512	4219962	7.87975E-05	0	0	1.41796E-05	0	0	0	0	2.1195E-09	1.1516E-09	0	3.27111E-09	0.00327111
5375634219961	537563	4219961	0.000100423	0	0	1.80711E-05	0	0	0	0	2.70119E-09	1.46766E-09	0	4.16885E-09	0.00416885
5375264220026	537526	4220026	7.2E-05	0	0	1.29563E-05	0	0	0	0	1.93666E-09	1.05226E-09	0	2.98892E-09	0.00298892
5375234220064	537523	4220064	6.59939E-05	0	0	1.18755E-05	0	0	0	0	1.77511E-09	9.64482E-10	0	2.73959E-09	0.00273959
5374854220057	537485	4220057	6.03129E-05	0	0	1.08533E-05	0	0	0	0	1.6223E-09	8.81456E-10	0	2.50376E-09	0.00250376
5375204220090	537520	4220090	6.24049E-05	0	0	1.12297E-05	0	0	0	0	1.67857E-09	9.1203E-10	0	2.5906E-09	0.00259060
5374764220098	537476	4220098	5.53374E-05	0	0	9.95793E-06	0	0	0	0	1.48847E-09	8.08741E-10	0	2.29721E-09	0.00229721
5375224220118	537522	4220118	6.06687E-05	0	0	1.09173E-05	0	0	0	0	1.63187E-09	8.86656E-10	0	2.51853E-09	0.00251853
5374724220119	537472	4220119	5.31472E-05	0	0	9.5638E-06	0	0	0	0	1.42956E-09	7.76732E-10	0	2.20629E-09	0.00220629
5374714220147	537471	4220147	5.11227E-05	0	0	9.19949E-06	0	0	0	0	1.3751E-09	7.47144E-10	0	2.12225E-09	0.00212225
5375204220145	537520	4220145	5.7681E-05	0	0	1.03796E-05	0	0	0	0	1.55151E-09	8.42991E-10	0	2.3945E-09	0.00239450
5375224220166	537522	4220166	5.61104E-05	0	0	1.0097E-05	0	0	0	0	1.50926E-09	8.20038E-10	0	2.3293E-09	0.00232930
537988.414219932.1	537988.41	4219932.2	0.000745767	0	0	0.0001342	0	0	0	0	2.00597E-08	1.08992E-08	0	3.09589E-08	0.03095887
537975.134219953.4	537975.13	4219953.4	0.000714294	0	0	0.000128537	0	0	0	0	1.92131E-08	1.04392E-08	0	2.96524E-08	0.02965236
537969.164219968.0	537969.16	4219968	0.00068992	0	0	0.000124151	0	0	0	0	1.85575E-08	1.0083E-08	0	2.86405E-08	0.02864052
537945.254219984.6	537945.25	4219984.6	0.000682945	0	0	0.000122895	0	0	0	0	1.83699E-08	9.98105E-09	0	2.83509E-08	0.02835095
537951.894219999.8	537951.89	4219999.9	0.000641822	0	0	0.000115495	0	0	0	0	1.72638E-08	9.38005E-09	0	2.66438E-08	0.02664383
537957.24220015.15	537957.2	4220015.2	0.00060573	0	0	0.000109001	0	0	0	0	1.6293E-08	8.85257E-09	0	2.51455E-08	0.02514555
537933.964220011.8	537933.96	4220011.8	0.000633619	0	0	0.000114019	0	0	0	0	1.70431E-08	9.26017E-09	0	2.63033E-08	0.02630332
537929.984220034.4	537929.98	4220034.4	0.000587601	0	0	0.000105738	0	0	0	0	1.58053E-08	8.58763E-09	0	2.4393E-08	0.02439297

537942.594220029.7	537942.59	4220029.8	0.000588472	0	0	0.000105895	0	0	0	0	1.58288E-08	8.60036E-09	0	2.44291E-08	0.02442913
537957.24220025.77	537957.2	4220025.8	0.00058527	0	0	0.000105319	0	0	0	0	1.57426E-08	8.55356E-09	0	2.42962E-08	0.02429619
537934.634220050.3	537934.63	4220050.3	0.00055257	0	0	9.94346E-05	0	0	0	0	1.48631E-08	8.07566E-09	0	2.29387E-08	0.02293875
537949.244220045.0	537949.24	4220045	0.000554669	0	0	9.98122E-05	0	0	0	0	1.49195E-08	8.10633E-09	0	2.30258E-08	0.02302585
537962.524220038.3	537962.52	4220038.4	0.000558374	0	0	0.000100479	0	0	0	0	1.50192E-08	8.16048E-09	0	2.31797E-08	0.02317967
537963.844219981.9	537963.84	4219982	0.000666503	0	0	0.000119937	0	0	0	0	1.79276E-08	9.74076E-09	0	2.76684E-08	0.02766840
537981.114219975.9	537981.11	4219976	0.000659908	0	0	0.00011875	0	0	0	0	1.77503E-08	9.64437E-09	0	2.73946E-08	0.02739462
537990.44219970.66	537990.4	4219970.7	0.000661104	0	0	0.000118965	0	0	0	0	1.77824E-08	9.66185E-09	0	2.74443E-08	0.02744429
537973.144219998.5	537973.14	4219998.6	0.000623491	0	0	0.000112197	0	0	0	0	1.67707E-08	9.11214E-09	0	2.58828E-08	0.02588284
537984.434219993.9	537984.43	4219993.9	0.000622006	0	0	0.00011193	0	0	0	0	1.67308E-08	9.09045E-09	0	2.58212E-08	0.02582121
537996.384219988.5	537996.38	4219988.6	0.00062154	0	0	0.000111846	0	0	0	0	1.67182E-08	9.08363E-09	0	2.58019E-08	0.02580186
537978.454220013.8	537978.45	4220013.8	0.000590583	0	0	0.000106275	0	0	0	0	1.58855E-08	8.6312E-09	0	2.45167E-08	0.02451674
537991.074220006.5	537991.07	4220006.5	0.000593681	0	0	0.000106832	0	0	0	0	1.59689E-08	8.67648E-09	0	2.46454E-08	0.02464536
538003.024220001.2	538003.02	4220001.2	0.000594006	0	0	0.000106891	0	0	0	0	1.59776E-08	8.68123E-09	0	2.46589E-08	0.02465885
537984.434220030.4	537984.43	4220030.4	0.000557583	0	0	0.000100337	0	0	0	0	1.49979E-08	8.14892E-09	0	2.31468E-08	0.02314682
537997.044220024.4	537997.04	4220024.5	0.000559233	0	0	0.000100634	0	0	0	0	1.50423E-08	8.17304E-09	0	2.32153E-08	0.02321533
538011.654220019.8	538011.65	4220019.8	0.000557712	0	0	0.00010036	0	0	0	0	1.50014E-08	8.1508E-09	0	2.31522E-08	0.02315217

Wood Hollow Residences Project - Unmitigated Risk

Cancer Risk Summary & Maximum Annual GLC for Chronic Calculations

Cancer Risk Summary

Max Risk: 16.16317

XY	X	Y	Offroad Risk	Haul Risk	Total Risk
3757142197	537571	4219724	13.55776983	0.020659	13.578429
3757542197	537575	4219738	15.06367723	0.0214	15.085077
3757742197	537577	4219756	16.14225534	0.020911	16.163167
3754742198	537547	4219848	10.77729079	0.008015	10.785306
3751042198	537510	4219859	7.864700259	0.006673	7.8713734
3746242198	537462	4219861	6.989531914	0.006849	6.996381
3743642198	537436	4219822	7.727832134	0.008711	7.7365427
3742842198	537428	4219802	7.644616723	0.009665	7.6542818
3739742198	537397	4219826	6.420629014	0.007727	6.4283563
3736942198	537369	4219842	5.918983808	0.007129	5.9261131
3734642198	537346	4219851	5.713323594	0.007004	5.7203275
3732742198	537327	4219864	5.035529724	0.006353	5.0418827
3730842198	537308	4219872	4.492251238	0.005876	4.4981277
3732842199	537328	4219929	3.138146748	0.004499	3.1426459
3737042199	537370	4219959	2.348393114	0.003659	2.3520526
3732042199	537320	4219970	2.348137382	0.003789	2.3519263
3738042199	537380	4219975	2.069337624	0.003385	2.0727223
3733042199	537330	4219998	1.970420227	0.003405	1.973825
3738642199	537386	4219995	1.787366781	0.003115	1.7904818
3738642200	537386	4220023	1.50861817	0.00286	1.511478
3742542200	537425	4220024	1.422129381	0.002743	1.4248723
3742942200	537429	4220041	1.30807261	0.002661	1.3107332
3739842200	537398	4220063	1.185730101	0.002527	1.1882575
3740142200	537401	4220082	1.078884991	0.002417	1.0813016
3740842201	537408	4220102	0.983957023	0.002314	0.9862705
3751242199	537512	4219962	2.161759411	0.003271	2.1650305
3756342199	537563	4219961	2.859960749	0.004169	2.8641296
3752642200	537526	4220026	1.621242839	0.002989	1.6242318
3752342200	537523	4220064	1.389702479	0.00274	1.3924421
3748542200	537485	4220057	1.212428591	0.002504	1.2149323
3752042200	537520	4220090	1.263728565	0.002591	1.2663192
3747642200	537476	4220098	1.036995979	0.002297	1.0392932
3752242201	537522	4220118	1.180820033	0.002519	1.1833386
3747242201	537472	4220119	0.970607778	0.002206	0.9728141
3747142201	537471	4220147	0.912607608	0.002122	0.9147299
3752042201	537520	4220145	1.07786206	0.002394	1.0802566
3752242201	537522	4220166	1.016895391	0.002329	1.0192247
88.4142199	537988.41	4219932.2	10.33876041	0.030959	10.369719
975.1342199	537975.13	4219953.4	11.2714686	0.029652	11.301121
69.1642199	537969.16	4219968	11.61737261	0.028641	11.646013
45.2542199	537945.25	4219984.6	13.61162713	0.028351	13.639978
51.8942199	537951.89	4219999.9	12.65820458	0.026644	12.684848
957.2422001	537957.2	4220015.2	11.89847397	0.025146	11.92362
33.9642200	537933.96	4220011.8	14.06089828	0.026303	14.087202
29.9842200	537929.98	4220034.4	13.73417422	0.024393	13.758567
42.5942200	537942.59	4220029.8	12.78816793	0.024429	12.812597
957.2422002	537957.2	4220025.8	11.69266031	0.024296	11.716957
34.6342200	537934.63	4220050.3	12.84678185	0.022939	12.869721
49.2442200	537949.24	4220045	11.88532931	0.023026	11.908355
62.5242200	537962.52	4220038.4	11.05619284	0.02318	11.079373
63.8442199	537963.84	4219982	11.88819351	0.027668	11.915862
81.1142199	537981.11	4219976	10.53419131	0.027395	10.561586
990.4421997	537990.4	4219970.7	9.892251165	0.027444	9.9196955
73.1442199	537973.14	4219998.6	10.88858565	0.025883	10.914468
984.4342199	537984.43	4219993.9	10.10328176	0.025821	10.129103
96.3842199	537996.38	4219988.6	9.339203691	0.025802	9.3650055
78.4542200	537978.45	4220013.8	10.30034936	0.024517	10.324866
91.0742200	537991.07	4220006.5	9.527780962	0.024645	9.5524263
03.0242200	538003.02	4220001.2	8.830704849	0.024659	8.8553637
84.4342200	537984.43	4220030.4	9.696666818	0.023147	9.7198136
97.0442200	537997.04	4220024.5	8.991816431	0.023215	9.0150318
011.6542200	538011.65	4220019.8	8.216332681	0.023152	8.2394848

Max GLC for Chronic Calcs

Max GLC: 0.083836

XY	X	Y	2026	2027	2028	2029	Max
5375714219724	537571	4219724	0.0701545	0.0704271	0.0100276	0.0171899	0.0701545
5375754219738	537575	4219738	0.0779094	0.0782429	0.0111415	0.0190993	
5375774219756	537577	4219756	0.0834391	0.0838364	0.0119392	0.0204668	
5375474219848	537547	4219848	0.0555645	0.0559472	0.0079711	0.0136646	
5375104219859	537510	4219859	0.0405679	0.0408309	0.0058169	0.0099717	
5374624219861	537462	4219861	0.0360757	0.0362913	0.0051696	0.0088621	
5374364219822	537436	4219822	0.0399138	0.0401296	0.0057157	0.0097981	
5374284219802	537428	4219802	0.0395092	0.0397021	0.0056541	0.0096926	
5373974219826	537397	4219826	0.0331739	0.0333436	0.0047489	0.0081407	
5373694219842	537369	4219842	0.0305822	0.0307385	0.0043778	0.0075047	
5373464219851	537346	4219851	0.0295225	0.029671	0.0042257	0.0072439	
5373274219864	537327	4219864	0.0260245	0.0261518	0.0037244	0.0063846	
5373084219872	537308	4219872	0.0232218	0.0233312	0.0033226	0.0056957	
5373284219929	537328	4219929	0.0162315	0.0163002	0.002321	0.0039789	
5373704219959	537370	4219959	0.0121537	0.0121993	0.0017369	0.0029775	
5373204219970	537320	4219970	0.0121555	0.0121985	0.0017367	0.0029772	
5373804219975	537380	4219975	0.0107133	0.0107504	0.0015305	0.0026237	
5373304219998	537330	4219998	0.0102056	0.0102373	0.0014574	0.0024983	
5373864219995	537386	4219995	0.0092581	0.0092863	0.001322	0.0022662	
5373864220023	537386	4220023	0.0078198	0.0078391	0.0011158	0.0019128	
5374254220024	537425	4220024	0.0073727	0.0073899	0.0010518	0.0018031	
5374294220041	537429	4220041	0.0067847	0.0067978	0.0009675	0.0016585	
5373984220063	537398	4220063	0.0061529	0.0061625	0.000877	0.0015034	
5374014220082	537401	4220082	0.0056013	0.0056077	0.000798	0.0013679	
5374084220102	537408	4220102	0.0051111	0.0051148	0.0007278	0.0012476	
5375124219962	537512	4219962	0.0111854	0.0112294	0.0015989	0.0027409	
5375634219961	537563	4219961	0.0147943	0.0148555	0.0021153	0.0036262	
5375264220026	537526	4220026	0.0084016	0.0084239	0.0011991	0.0020556	
5375234220064	537523	4220064	0.007206	0.0072216	0.0010279	0.001762	
5374854220057	537485	4220057	0.0062895	0.0063009	0.0008967	0.0015372	
5375204220090	537520	4220090	0.0065552	0.0065674	0.0009347	0.0016023	
5374764220098	537476	4220098	0.0053832	0.0053899	0.000767	0.0013148	
5375224220118	537522	4220118	0.0061275	0.006137	0.0008734	0.0014972	
5374724220119	537472	4220119	0.0050399	0.0050451	0.0007179	0.0012306	
5374714220147	537471	4220147	0.0047399	0.0047438	0.000675	0.0011571	
5375204220145	537520	4220145	0.0055955	0.0056023	0.0007972	0.0013666	
5375224220166	537522	4220166	0.0052807	0.0052857	0.0007521	0.0012893	
537988.414219932.	537988.41	4219932.2	0.0538641	0.0537715	0.0076468	0.0131086	
537975.134219953	537975.13	4219953.4	0.0586247	0.0586048	0.0083366	0.0142911	
537969.164219968.	537969.16	4219968	0.0603775	0.0603949	0.0085925	0.0147297	
537945.254219984.	537945.25	4219984.6	0.0706165	0.0707398	0.0100675	0.0172582	
537951.894219999.	537951.89	4219999.9	0.0656769	0.0657861	0.0093623	0.0160494	
537957.24220015.	537957.2	4220015.2	0.0617375	0.0618381	0.0088004	0.0150861	
537933.964220011.	537933.96	4220011.8	0.0728755	0.0730618	0.0103998	0.0178279	
537929.984220034.	537929.98	4220034.4	0.0711508	0.0713584	0.0101581	0.0174136	
537942.594220029.	537942.59	4220029.8	0.0662913	0.0664507	0.0094584	0.0162142	
537957.24220025.	537957.2	4220025.8	0.0606596	0.0607667	0.0086482	0.0148252	
537934.634220050.	537934.63	4220050.3	0.0665566	0.0667484	0.0095018	0.0162885	
537949.244220045.	537949.24	4220045	0.0616189	0.0617607	0.0087907	0.0150695	
537962.524220038.	537962.52	4220038.4	0.0573627	0.0574599	0.0081774	0.0140182	
537963.844219981.	537963.84	4219982	0.0617455	0.0617957	0.0087928	0.0150731	
537981.114219975.	537981.11	4219976	0.0547823	0.05477	0.0077913	0.0133563	
537990.44219970.	537990.4	4219970.7	0.0514854	0.0514398	0.0073165	0.0125424	
537973.144219998.	537973.14	4219998.6	0.0565667	0.056602	0.0080535	0.0138057	
537984.434219993	537984.43	4219993.9	0.0525305	0.0525276	0.0074726	0.01281	
537996.384219988.	537996.38	4219988.6	0.0486043	0.0485635	0.0069075	0.0118412	
537978.454220013.	537978.45	4220013.8	0.0535116	0.0535443	0.0076184	0.0130598	
537991.074220006.	537991.07	4220006.5	0.0495454	0.0495368	0.007047	0.0120803	
538003.024220001.	538003.02	4220001.2	0.0459643	0.0459205	0.0065314	0.0111965	
537984.434220030.	537984.43	4220030.4	0.050377	0.0504065	0.0071719	0.0122944	
537997.044220024.	537997.04	4220024.5	0.0467572	0.0467501	0.0066506	0.0114008	
538011.654220019	538011.65	4220019.8	0.0427715	0.0427266	0.006077	0.0104175	

Wood Hollow Residences Project - Unmitigated Risk

Maximum Individual Non-Cancer Impact Calculations - Sensitive Receptors (Maximum Impacted Senior Residential Receptor) (IMPACT AT ALL OTHER LOCATIONS ON THE PROJECT SITE WOULD BE LESS THAN SHOWN)

Maximum Non-cancer Chronic Hazards / Toxicological Endpoints*

Receptor Group	Pollutant	CREL[1]	CONC	WFrac	$CONC_{WF}$	HI		ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK
Project:																				
MEI - Max	DPM	5.00E+00	8.38E-02	1.00E+00	8.38E-02	0.017		-	-	-	-	-	-	-	-	-	-	-	1.68E-02	-
							Total Risk				-			-				-	0.017	
							Threshold				1.00			1.00				1.00	1.00	
							Over?				NO			NO				NO	NO	

Notes:

1. California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values," "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," "OEHHA/ARB Approved Acute Reference Exposure Levels and Target Organs," and "OEHHA/ARB Approved 8-Hour Reference Exposure Levels and Target Organs," http://www.arb.ca.gov/toxics/healthval/healthval.htm. Tables last updated: May 8, 2018. Downloaded: 08/14/18.

Source: ESA, 2020

Where:

$CONC_{WF}$	Pollutant Concentration ($\mu g/m^3$) multiplied by the weight fraction
CREL	Chronic Reference Exposure Level
HI	Hazard Index
MEI	Maximally Exposed Individual
WFrac	Weight fraction of speciated component

* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

XY	X	Y	Construction Area	Haul Route
5375714219724	537571	4219724	2.65077	0.81118
5375754219738	537575	4219738	2.9452	0.84028
5375774219756	537577	4219756	3.15608	0.82108
5375474219848	537547	4219848	2.10714	0.3147
5375104219859	537510	4219859	1.53768	0.26202
5374624219861	537462	4219861	1.36657	0.26893
5374364219822	537436	4219822	1.51092	0.34202
5374284219802	537428	4219802	1.49465	0.3795
5373974219826	537397	4219826	1.25534	0.30341
5373694219842	537369	4219842	1.15726	0.27993
5373464219851	537346	4219851	1.11705	0.27501
5373274219864	537327	4219864	0.98453	0.24945
5373084219872	537308	4219872	0.87831	0.23074
5373284219929	537328	4219929	0.61356	0.17666
5373704219959	537370	4219959	0.45915	0.14369
5373204219970	537320	4219970	0.4591	0.14877
5373804219975	537380	4219975	0.40459	0.1329
5373304219998	537330	4219998	0.38525	0.13369
5373864219995	537386	4219995	0.34946	0.12231
5373864220023	537386	4220023	0.29496	0.11229
5374254220024	537425	4220024	0.27805	0.1077
5374294220041	537429	4220041	0.25575	0.10447
5373984220063	537398	4220063	0.23183	0.09924
5374014220082	537401	4220082	0.21094	0.09489
5374084220102	537408	4220102	0.19238	0.09084
5375124219962	537512	4219962	0.42266	0.12844
5375634219961	537563	4219961	0.55917	0.16369
5375264220026	537526	4220026	0.31698	0.11736
5375234220064	537523	4220064	0.27171	0.10757
5374854220057	537485	4220057	0.23705	0.09831
5375204220090	537520	4220090	0.24708	0.10172
5374764220098	537476	4220098	0.20275	0.0902
5375224220118	537522	4220118	0.23087	0.09889
5374724220119	537472	4220119	0.18977	0.08663
5374714220147	537471	4220147	0.17843	0.08333
5375204220145	537520	4220145	0.21074	0.09402
5375224220166	537522	4220166	0.19882	0.09146
537988.414219932.1	537988.4	4219932	2.0214	1.2156
537975.134219953.4	537975.1	4219953	2.20376	1.1643
537969.164219968.0	537969.2	4219968	2.27139	1.12457
537945.254219984.6	537945.3	4219985	2.6613	1.1132
537951.894219999.8	537951.9	4220000	2.47489	1.04617
537957.24220015.15	537957.2	4220015	2.32635	0.98734
537933.964220011.8	537934	4220012	2.74914	1.0328
537929.984220034.4	537930	4220034	2.68526	0.95779
537942.594220029.7	537942.6	4220030	2.5003	0.95921

AERMOD Results

537957.24220025.77	537957.2	4220026	2.28611	0.95399
537934.634220050.3	537934.6	4220050	2.51176	0.90069
537949.244220045.0	537949.2	4220045	2.32378	0.90411
537962.524220038.3	537962.5	4220038	2.16167	0.91015
537963.844219981.9	537963.8	4219982	2.32434	1.0864
537981.114219975.9	537981.1	4219976	2.05961	1.07565
537990.44219970.66	537990.4	4219971	1.9341	1.0776
537973.144219998.5	537973.1	4219999	2.1289	1.01629
537984.434219993.9	537984.4	4219994	1.97536	1.01387
537996.384219988.5	537996.4	4219989	1.82597	1.01311
537978.454220013.8	537978.5	4220014	2.01389	0.96265
537991.074220006.5	537991.1	4220007	1.86284	0.9677
538003.024220001.2	538003	4220001	1.72655	0.96823
537984.434220030.4	537984.4	4220030	1.89586	0.90886
537997.044220024.4	537997	4220024	1.75805	0.91155
538011.654220019.8	538011.7	4220020	1.60643	0.90907

XY	X	Y
537571421	537571	4219724
537575421	537575	4219738
537577421	537577	4219756
537547421	537547	4219848
537510421	537510	4219859
537462421	537462	4219861
537436421	537436	4219822
537428421	537428	4219802
537397421	537397	4219826
537369421	537369	4219842
537346421	537346	4219851
537327421	537327	4219864
537308421	537308	4219872
537328421	537328	4219929
537370421	537370	4219959
537320421	537320	4219970
537380421	537380	4219975
537330421	537330	4219998
537386421	537386	4219995
537386422	537386	4220023
537425422	537425	4220024
537429422	537429	4220041
537398422	537398	4220063
537401422	537401	4220082
537408422	537408	4220102
537512421	537512	4219962
537563421	537563	4219961
537526422	537526	4220026
537523422	537523	4220064
537485422	537485	4220057
537520422	537520	4220090
537476422	537476	4220098
537522422	537522	4220118
537472422	537472	4220119
537471422	537471	4220147
537520422	537520	4220145
537522422	537522	4220166
537988.41	537988.4	4219932
537975.13	537975.1	4219953
537969.16	537969.2	4219968
537945.25	537945.3	4219985
537951.89	537951.9	4220000
537957.24	537957.2	4220015
537933.96	537934	4220012
537929.98	537930	4220034
537942.59	537942.6	4220030

Receptor Locations

537957.24	537957.2	4220026
537934.63	537934.6	4220050
537949.24	537949.2	4220045
537962.52	537962.5	4220038
537963.84	537963.8	4219982
537981.11	537981.1	4219976
537990.44	537990.4	4219971
537973.14	537973.1	4219999
537984.43	537984.4	4219994
537996.38	537996.4	4219989
537978.45	537978.5	4220014
537991.07	537991.1	4220007
538003.02	538003	4220001
537984.43	537984.4	4220030
537997.04	537997	4220024
538011.65	538011.7	4220020

Receptor Locations

On-site Unmitigated Construction Emissions

Demolition (7/1/2026 - 9/30/2026)

	Total Tons	
PM2.5 (Exhaust + Fugitive dust)	0.14538696	21%

Site-Preparation (10/1/2026 - 3/31/2027)

	Total tons	
PM2.5 (Exhaust + Fugitive dust)	0.39396747	56%

Grading (4/1/2027 - 6/30/2027)

	Total Tons	
PM2.5 (Exhaust + Fugitive dust)	0.0735502	10%

Building Construction (7/1/2027 - 6/30/2029)

	Total Tons	
PM2.5 (Exhaust + Fugitive dust)	0.08741635	12%

Paving (7/1/2029 - 7/31/2029)

	Total Tons	
PM2.5 (Exhaust + Fugitive dust)	0.00285895	0%

*Used mitigated on-site construction emissions by phase (watered site per BAAQMD guidelines for all projects) .

Hauling/Vendor emissions

Demolition (7/1/2026 - 9/30/2026) [Hauling]

2026

	Total Tons	tons/mile	Tons associated w site	# Hauling Trips	Hauling Trip Lengt	Total VMT
PM2.5 (Exhaust + Fugitive dust)	0.00851941	1.46533E-07	4.25971E-05	2907	20	58140

Grading (4/1/2027 - 6/30/2027) [Hauling]

2027

	Total tons	tons/mile	Tons associated w site	# Hauling Trips	Hauling Trip Lengt	Total VMT
PM2.5 (Exhaust + Fugitive dust)	0.00227048	1.46294E-07	1.13524E-05	776	20	15520

Building Construction (7/1/2027 - 7/31/2029) [Vendor]

	2027			2028			2029		
	Total Tons	tons/mile	Tons associated w site	Total Tons	tons/mile	Tons associated w	Total Tons	tons/mile	Tons associated w site
PM2.5 (Exhaust + Fugitive dust)	0.00126614	1.16667E-07	1.50731E-05	0.002518519	1.16033E-07	2.99824E-05	0.001144144	1.07183E-07	1.36208E-05

* 0.1 miles of each hauling or vendor trip was assumed to represent the vehilce travel while at or near the construction site (within 1000 ft radius of site)

	# Vendor T	Vendor Tri	Total VMT
Year	4426.62	8.4	37183.61
2027	1291.98	8.4	10852.63
2028	2583.96	8.4	21705.26
2029	1270.8	8.4	10674.72

No Hauling Emissions Included

	Total Tons/ye	**Avg lbs/year**
PM2.5 (Exhaust + Fugitive dust)	0.70317993	456.1167118

All Years Max	
Max lbs/day	Max lbs/hr
0	0
0	0

Hauling Emissions Included

	Total Tons/ye	**Avg lbs/year**
PM2.5 (Exhaust + Fugitive dust)	0.70322253	456.1443423

UnMitigated PM2.5 Construction Emissions

x	y	AERMOD Concentration	grams/second	AERMOD Concentration Haul	grams/second	PM 2.5 (ug/m^3)	Max PM2.5 - Residential
537571	4219724	2.65077	0.006566766	0.81118	0.006566766	0.02273	0.02612
537575	4219738	2.9452		0.84028		0.02486	
537577	4219756	3.15608		0.82108		0.02612	
537547	4219848	2.10714		0.3147		0.01590	
537510	4219859	1.53768		0.26202		0.01182	
537462	4219861	1.36657		0.26893		0.01074	
537436	4219822	1.51092		0.34202		0.01217	
537428	4219802	1.49465		0.3795		0.01231	
537397	4219826	1.25534		0.30341		0.01024	
537369	4219842	1.15726		0.27993		0.00944	
537346	4219851	1.11705		0.27501		0.00914	
537327	4219864	0.98453		0.24945		0.00810	
537308	4219872	0.87831		0.23074		0.00728	
537328	4219929	0.61356		0.17666		0.00519	
537370	4219959	0.45915		0.14369		0.00396	
537320	4219970	0.4591		0.14877		0.00399	
537380	4219975	0.40459		0.1329		0.00353	
537330	4219998	0.38525		0.13369		0.00341	
537386	4219995	0.34946		0.12231		0.00310	
537386	4220023	0.29496		0.11229		0.00267	
537425	4220024	0.27805		0.1077		0.00253	
537429	4220041	0.25575		0.10447		0.00237	
537398	4220063	0.23183		0.09924		0.00217	
537401	4220082	0.21094		0.09489		0.00201	
537408	4220102	0.19238		0.09084		0.00186	
537512	4219962	0.42266		0.12844		0.00362	
537563	4219961	0.55917		0.16369		0.00475	
537526	4220026	0.31698		0.11736		0.00285	
537523	4220064	0.27171		0.10757		0.00249	
537485	4220057	0.23705		0.09831		0.00220	
537520	4220090	0.24708		0.10172		0.00229	
537476	4220098	0.20275		0.0902		0.00192	
537522	4220118	0.23087		0.09889		0.00217	
537472	4220119	0.18977		0.08663		0.00182	
537471	4220147	0.17843		0.08333		0.00172	
537520	4220145	0.21074		0.09402		0.00200	
537522	4220166	0.19882		0.09146		0.00191	
537988.41	4219932.15	2.0214		1.2156		0.02126	
537975.13	4219953.4	2.20376		1.1643		0.02212	
537969.16	4219968.01	2.27139		1.12457		0.02230	
537945.25	4219984.61	2.6613		1.1132		0.02479	
537951.89	4219999.88	2.47489		1.04617		0.02312	
537957.2	4220015.15	2.32635		0.98734		0.02176	
537933.96	4220011.83	2.74914		1.0328		0.02484	
537929.98	4220034.41	2.68526		0.95779		0.02392	
537942.59	4220029.76	2.5003		0.95921		0.02272	
537957.2	4220025.77	2.28611		0.95399		0.02128	
537934.63	4220050.34	2.51176		0.90069		0.02241	
537949.24	4220045.03	2.32378		0.90411		0.02120	
537962.52	4220038.39	2.16167		0.91015		0.02017	
537963.84	4219981.95	2.32434		1.0864		0.02240	
537981.11	4219975.97	2.05961		1.07565		0.02059	
537990.4	4219970.66	1.9341		1.0776		0.01978	
537973.14	4219998.55	2.1289		1.01629		0.02065	
537984.43	4219993.9	1.97536		1.01387		0.01963	
537996.38	4219988.59	1.82597		1.01311		0.01864	
537978.45	4220013.82	2.01389		0.96265		0.01955	
537991.07	4220006.52	1.86284		0.9677		0.01859	
538003.02	4220001.21	1.72655		0.96823		0.01770	
537984.43	4220030.42	1.89586		0.90886		0.01842	
537997.04	4220024.45	1.75805		0.91155		0.01753	
538011.65	4220019.8	1.60643		0.90907		0.01652	

x	y	AERMOD Concentration	grams/secor	AERMOD Concentration Haul	grams/secon	PM 2.5 (ug/m^3)	PM2.5 - Cumulative
537571	4219724	2.65077	0	3.15871	0	0.03815	0.03815
537575	4219738	2.9452					
537577	4219756	3.15608					
537547	4219848	2.10714					
537510	4219859	1.53768					
537462	4219861	1.36657					
537436	4219822	1.51092					
537428	4219802	1.49465					
537397	4219826	1.25534					
537369	4219842	1.15726					
537346	4219851	1.11705					
537327	4219864	0.98453					
537308	4219872	0.87831					
537328	4219929	0.61356					
537370	4219959	0.45915					
537320	4219970	0.4591					
537380	4219975	0.40459					
537330	4219998	0.38525					
537386	4219995	0.34946					
537386	4220023	0.29496					
537425	4220024	0.27805					
537429	4220041	0.25575					
537398	4220063	0.23183					
537401	4220082	0.21094					
537408	4220102	0.19238					
537512	4219962	0.42266					
537563	4219961	0.55917					
537526	4220026	0.31698					
537523	4220064	0.27171					
537485	4220057	0.23705					
537520	4220090	0.24708					
537476	4220098	0.20275					
537522	4220118	0.23087					
537472	4220119	0.18977					
537471	4220147	0.17843					
537520	4220145	0.21074					
537522	4220166	0.19882					
537988.4	4219932	2.0214					
537975.1	4219953	2.20376					
537969.2	4219968	2.27139					
537945.3	4219985	2.6613					
537951.9	4220000	2.47489					
537957.2	4220015	2.32635					
537934	4220012	2.74914					
537930	4220034	2.68526					
537942.6	4220030	2.5003					
537957.2	4220026	2.28611					
537934.6	4220050	2.51176					
537949.2	4220045	2.32378					
537962.5	4220038	2.16167					
537963.8	4219982	2.32434					
537981.1	4219976	2.05961					
537990.4	4219971	1.9341					
537973.1	4219999	2.1289					
537984.4	4219994	1.97536					
537996.4	4219989	1.82597					
537978.5	4220014	2.01389					
537991.1	4220007	1.86284					
538003	4220001	1.72655					
537984.4	4220030	1.89586					
537997	4220024	1.75805					
538011.7	4220020	1.60643					

Wood Hollow Residences Project - Mitigated Risk

Construction Modeling Assumptions

AERMOD Sources

PolyAreas		
Offroad Construction Exhaust		
Release Height	5	m
Emissions rate	1	g/s
Init Vert Dimension	1.4	m
SCAQMD LST Guidance, 2008		
Line Volume		
Onroad Hauling Exhaust		
Vehicle Height	14	ft
Plume Height	7.25	m
Plume Width	9.05	m
Release Height	3.63	m
Emissions rate	1	g/s
EPA Haul Road Guidance & Caltrans Heigh & Low Clearance Guidance[1]		

[1] USEPA Haul Road Workgroup Final Report Dec 6, 2011, Page 4.

https://www.epa.gov/sites/default/files/2020-10/documents/haul_road_workgroup-final_report_package-20120302.pdf

Meteorology: Napa County Airport

Wood Hollow Residences Project - Mitigated Risk

Health Risk Assessment Risk Factors

Residential Risk	Abbreviation	UOM	3rd Trimester	0<2	2<16	16<30
Daily Breathing Rate	DBR	L/kg-day	361	1090	572	261
Fraction Of Time At Home	FAH	unitless	0.85	0.85	0.72	0.73
Exposure Frequency	EF	days/year	0.96	0.96	0.96	0.96
Age Sensitivity Factor	ASF	unitless	10	10	3	1
Inhalation Absorption Factor	A	unitless	1	1	1	1
Conversion Factor	CF_1	m^3/L	0.001	0.001	0.001	0.001
Conversion Factor	CF_2	$\mu g/m^3$	0.001	0.001	0.001	0.001
Cancer Potency Factor (diesel exhaust)	CPF	$mg/kg\text{-}day^{-1}$	1.1	1.1	1.1	1.1
Averaging Time (for residential exposure)	AT	years	30.00	30.00	30.00	70.00

Risk Factors

Wood Hollow Residences Project - Mitigated Risk

Health Risk Assessment Exposure Duration Assumptions for Offroad Equipment

Residential Receptors

			Start Date	*7/1/2026*	*9/30/2026*	*9/30/2028*
OFFROAD			*End Date*	*9/29/2026*	*9/29/2028*	*9/27/2042*
	7/1/2026	*7/31/2029*	*Days*	*90*	*730*	*5110*
Phase	Start Date	End Date	Duration (days)	3rd Tri	0<2	02<16
Demolition	7/1/2026	9/30/2026	92	91	0	0
Site Preparation -2026	10/1/2026	12/31/2026	92	0	92	0
Site Preparation -2027	1/1/2027	3/31/2027	90	0	90	0
Grading	4/1/2027	6/30/2027	91	0	91	0
Building Construction -2027	7/1/2027	12/31/2027	184	0	184	0
Building Construction -2028	1/1/2028	12/31/2028	366	0	273	93
Building Construction -2029	1/1/2029	6/30/2029	181	0	0	181
Paving - 2029	7/1/2029	7/31/2029	31	0	0	31

Intake Factor for Inhalation, IF (m^3/kg-day)

Phase	Year	Equation	3rd Trimester	0<2	2<16
Demolition	2026	$\frac{DBR \cdot FAH \cdot EF \cdot ED \cdot ASF \cdot A \cdot CF_1}{AT}$	0.024452799	0	0
Site Preparation -2026	2026		0	0.074643898	0
Site Preparation -2027	2027		0	0.073021205	0
Grading	2027		0	0.073832551	0
Building Construction -2027	2027		0	0.149287796	0
Building Construction -2028	2028		0	0.221497654	0.010073719
Building Construction -2029	2029		0	0	0.019605841
Paving - 2029	2029		0	0	0.003357906

Risk Calculation Part 1, R1

Equation	3rd Trimester	0<2	2<16
$IF \cdot CPF \cdot CF_2$	2.68981E-05	0	0
	0	8.21083E-05	0
	0	8.03233E-05	0
	0	8.12158E-05	0
	0	0.000164217	0
	0	0.000243647	1.108E-05
	0	0	2.157E-05
	0	0	3.694E-06

Wood Hollow Residences Project - Mitigated Risk

Offroad DPM Emissions, Ground Level Concentrations and Health Risk Calculations
Residential Receptors

Phase	Year	Emissions (lbs/day)	Work Hours Per Day	Emissions (g/s)
Demolition	2026	0.063	10	0.000797174
Site Preparation -2026	2026	0.100	10	0.001254927
Site Preparation -2027	2027	0.100	10	0.001254927
Grading	2027	0.055	10	0.000698663
Building Construction -2027	2027	0.075	10	0.000938856
Building Construction -2028	2028	0.074	10	0.000933855
Building Construction -2029	2029	0.074	10	0.000929758
Paving - 2029	2029	0.028	10	0.000354398

Risk Summary	
Maximum Risk, Uncontrolled	2.19
UTM X	537577
UTM Y	4219756

		AERMOD Column Identifier:	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*					
			Demolition	Site Preparation -2026	Site Preparation - 2027	Grading	Building Construction -2027	Building Construction - 2028	Building Construction - 2029	Paving - 2029	Child Risk				
Unique Identifier	X (UTM)	Y (UTM)	2026	2026	2027	2027	2027	2028	2029	2029	3rd Trimester	0<2	2<16	Total	per million
5375714219724	537571	4219724	0.002113124	0.003326522	0.003326522	0.001851995	0.002488691	0.002475435	0.002464574	0.000939428	5.6839E-08	1.70256E-06	8.40525E-08	1.84345E-06	1.843452702
5375754219738	537575	4219738	0.002347836	0.00369601	0.00369601	0.002057702	0.002765118	0.00275039	0.002738322	0.001043773	6.31523E-08	1.89167E-06	9.33885E-08	2.04821E-06	2.048211236
5375774219756	537577	4219756	0.002515944	0.003960649	0.003960649	0.002205036	0.002963104	0.002947321	0.00293439	0.001118509	6.76741E-08	2.02712E-06	1.00075E-07	2.19487E-06	2.19486572
5375474219848	537547	4219848	0.001679756	0.002644306	0.002644306	0.001472181	0.0019783	0.001967763	0.00195913	0.000746766	4.51822E-08	1.35339E-06	6.68147E-08	1.46539E-06	1.465390406
5375104219859	537510	4219859	0.001225798	0.001929676	0.001929676	0.00107432	0.00144366	0.00143597	0.00142967	0.000544951	3.29716E-08	9.87635E-07	4.87579E-08	1.06936E-06	1.069364883
5374624219861	537462	4219861	0.001089394	0.001714945	0.001714945	0.000954772	0.001283012	0.001276178	0.001270579	0.00048431	2.93026E-08	8.77733E-07	4.33322E-08	9.50368E-07	0.950368066
5374364219822	537436	4219822	0.001204466	0.001896094	0.001896094	0.001055624	0.001418536	0.00141098	0.00140479	0.000535467	3.23978E-08	9.70448E-07	4.79093E-08	1.05075E-06	1.050754896
5374284219802	537428	4219802	0.001191496	0.001875676	0.001875676	0.001044257	0.001403261	0.001395786	0.001389662	0.000529701	3.20489E-08	9.59998E-07	4.73934E-08	1.03944E-06	1.03944008
5373974219826	537397	4219826	0.001000724	0.00157536	0.00157536	0.00087706	0.001178583	0.001172306	0.001167162	0.00044489	2.69176E-08	8.06291E-07	3.98052E-08	8.73014E-07	0.873014224
5373694219842	537369	4219842	0.000922537	0.001452277	0.001452277	0.000808535	0.0010865	0.001080713	0.001075971	0.000410131	2.48145E-08	7.43296E-07	3.66952E-08	8.04805E-07	0.804805424
5373464219851	537346	4219851	0.000890483	0.001401816	0.001401816	0.000780442	0.001048749	0.001043163	0.001038586	0.00039588	2.39523E-08	7.17469E-07	3.54202E-08	7.76842E-07	0.776841763
5373274219864	537327	4219864	0.000784841	0.001235513	0.001235513	0.000687855	0.000924332	0.000919408	0.000915374	0.000348916	2.11107E-08	6.32353E-07	3.12182E-08	6.84682E-07	0.684681994
5373084219872	537308	4219872	0.000700166	0.001102215	0.001102215	0.000613643	0.000824606	0.000820214	0.000816616	0.000311271	1.88331E-08	5.64129E-07	2.78501E-08	6.10812E-07	0.610812308
5373284219929	537328	4219929	0.000489114	0.000769973	0.000769973	0.000428672	0.000576044	0.000572976	0.000570462	0.000217445	1.31562E-08	3.94083E-07	1.94552E-08	4.26694E-07	0.426694447
5373704219959	537370	4219959	0.000366022	0.0005762	0.0005762	0.000320791	0.000431076	0.00042878	0.000426898	0.000162722	9.8453E-09	2.94907E-07	1.45591E-08	3.19311E-07	0.319311486
5373204219970	537320	4219970	0.000365982	0.000576137	0.000576137	0.000320756	0.000431029	0.000428733	0.000426852	0.000162704	9.84422E-09	2.94875E-07	1.45575E-08	3.19277E-07	0.319276714
5373804219975	537380	4219975	0.000322528	0.000507731	0.000507731	0.000282672	0.000379852	0.000377828	0.000376171	0.000143386	8.6754E-09	2.59864E-07	1.2829E-08	2.81368E-07	0.281368255
5373304219998	537330	4219998	0.000307111	0.000483461	0.000483461	0.00026916	0.000361694	0.000359768	0.000358189	0.000136532	8.2607E-09	2.47442E-07	1.22158E-08	2.67918E-07	0.267918436
5373864219995	537386	4219995	0.00027858	0.000438547	0.000438547	0.000244155	0.000328093	0.000326345	0.000324913	0.000123848	7.49327E-09	2.24454E-07	1.10809E-08	2.43029E-07	0.243028622
5373864220023	537386	4220023	0.000235134	0.000370153	0.000370153	0.000206078	0.000276925	0.00027545	0.000274241	0.000104533	6.32466E-09	1.8945E-07	9.3528E-09	2.05127E-07	0.205127117
5374254220024	537425	4220024	0.000221654	0.000348932	0.000348932	0.000194263	0.000261049	0.000259658	0.000258519	9.85404E-05	5.96207E-09	1.78589E-07	8.81661E-09	1.93367E-07	0.193367219
5374294220041	537429	4220041	0.000203877	0.000320948	0.000320948	0.000178683	0.000240112	0.000238833	0.000237786	9.06373E-05	5.4839E-09	1.64265E-07	8.10951E-09	1.77859E-07	0.177858897
5373984220063	537398	4220063	0.000184809	0.00029093	0.00029093	0.000161971	0.000217655	0.000216496	0.000215546	8.21601E-05	4.971E-09	1.48902E-07	7.35103E-09	1.61224E-07	0.161223961
5374014220082	537401	4220082	0.000168156	0.000264714	0.000264714	0.000147376	0.000198042	0.000196987	0.000196123	7.47567E-05	4.52307E-09	1.35485E-07	6.68864E-09	1.46696E-07	0.14669621
5374084220102	537408	4220102	0.00015336	0.000241423	0.000241423	0.000134409	0.000180617	0.000179655	0.000178867	6.81791E-05	4.1251E-09	1.23564E-07	6.10012E-09	1.33789E-07	0.133788835
5375124219962	537512	4219962	0.000336933	0.000530407	0.000530407	0.000295297	0.000396817	0.000394703	0.000392971	0.00014979	9.06286E-09	2.7147E-07	1.3402E-08	2.93935E-07	0.293934864
5375634219961	537563	4219961	0.000445756	0.000701717	0.000701717	0.000390671	0.00052498	0.000522184	0.000519893	0.000198169	1.199E-08	3.59149E-07	1.77306E-08	3.88869E-07	0.388869441
5375264220026	537526	4220026	0.000252688	0.000397787	0.000397787	0.000221462	0.000297598	0.000296013	0.000294715	0.000112337	6.79682E-09	2.03593E-07	1.0051E-08	2.20441E-07	0.220440716
5375234220064	537523	4220064	0.0002166	0.000340976	0.000340976	0.000189834	0.000255096	0.000253738	0.000252624	9.62935E-05	5.82612E-09	1.74516E-07	8.61558E-09	1.88958E-07	0.188958127
5374854220057	537485	4220057	0.00018897	0.00029748	0.00029748	0.000165618	0.000222556	0.00022137	0.000220399	8.40101E-05	5.08293E-09	1.52255E-07	7.51655E-09	1.64854E-07	0.16485416
5375204220090	537520	4220090	0.000196966	0.000310067	0.000310067	0.000172626	0.000231972	0.000230737	0.000229725	8.75647E-05	5.298E-09	1.58697E-07	7.83459E-09	1.71829E-07	0.171829428
5374764220098	537476	4220098	0.000161627	0.000254436	0.000254436	0.000141654	0.000190353	0.000189339	0.000188508	7.18542E-05	4.34745E-09	1.30224E-07	6.42894E-09	1.41001E-07	0.141000553
5375224220118	537522	4220118	0.000184043	0.000289725	0.000289725	0.0001613	0.000216754	0.000215599	0.000214653	8.18199E-05	4.95042E-09	1.48285E-07	7.32059E-09	1.60556E-07	0.160556338
5374724220119	537472	4220119	0.00015128	0.000238147	0.000238147	0.000132585	0.000178167	0.000177218	0.00017644	6.72541E-05	4.06913E-09	1.21887E-07	6.01736E-09	1.31974E-07	0.131973736
5374714220147	537471	4220147	0.00014224	0.000223917	0.000223917	0.000124662	0.00016752	0.000166628	0.000165897	6.32353E-05	3.82597E-09	1.14604E-07	5.65779E-09	1.24087E-07	0.124087441
5375204220145	537520	4220145	0.000167996	0.000264463	0.000264463	0.000147236	0.000197854	0.000196801	0.000195937	7.46859E-05	4.51878E-09	1.35356E-07	6.6823E-09	1.46557E-07	0.146557122
5375224220166	537522	4220166	0.000158494	0.000249505	0.000249505	0.000138908	0.000186663	0.000185669	0.000184854	7.04614E-05	4.26319E-09	1.277E-07	6.30433E-09	1.38267E-07	0.138267472
537988.414219932.15	537988.41	4219932.2	0.001611407	0.002536709	0.002536709	0.001412277	0.001897803	0.001887695	0.001879412	0.00071638	4.33437E-08	1.29832E-06	6.4096E-08	1.40576E-06	1.405763341
537975.134219953.4	537975.13	4219953.4	0.001756779	0.002765557	0.002765557	0.001539686	0.002069013	0.002057992	0.002048963	0.000781008	4.7254E-08	1.41545E-06	6.98784E-08	1.53258E-06	1.532583863
537969.164219968.01	537969.16	4219968	0.001810692	0.002850428	0.002850428	0.001586936	0.002132508	0.002121149	0.002111842	0.000804976	4.87041E-08	1.45889E-06	7.20229E-08	1.57962E-06	1.579616501

537945.254219984.61	537945.25	4219984.6	0.002121518	0.003339737	0.003339737	0.001859352	0.002498577	0.002485268	0.002474364	0.00094316	5.70648E-08	1.70932E-06	8.43864E-08	1.85078E-06	1.85077569
537951.894219999.88	537951.89	4219999.9	0.001972917	0.003105806	0.003105806	0.001729114	0.002323565	0.002311188	0.002301048	0.000877096	5.30677E-08	1.5896E-06	7.84756E-08	1.72114E-06	1.721138634
537957.24220015.15	537957.2	4220015.2	0.001854505	0.002919399	0.002919399	0.001625335	0.002184107	0.002172474	0.002162942	0.000824454	4.98826E-08	1.49419E-06	7.37656E-08	1.61784E-06	1.617837909
537933.964220011.83	537933.96	4220011.8	0.002191542	0.003449969	0.003449969	0.001920722	0.002581046	0.002567298	0.002556034	0.00097429	5.89483E-08	1.76574E-06	8.71717E-08	1.91186E-06	1.91186318
537929.984220034.41	537929.98	4220034.4	0.002140618	0.003369805	0.003369805	0.001876092	0.002521072	0.002507644	0.002496641	0.000951651	5.75785E-08	1.72471E-06	8.51462E-08	1.86744E-06	1.867438443
537942.594220029.76	537942.59	4220029.8	0.001993173	0.003137693	0.003137693	0.001746867	0.002347421	0.002334918	0.002324673	0.000886102	5.36125E-08	1.60592E-06	7.92813E-08	1.73881E-06	1.738809776
537957.24220025.77	537957.2	4220025.8	0.001822427	0.002868901	0.002868901	0.00159722	0.002146327	0.002134895	0.002125528	0.000810193	4.90198E-08	1.46834E-06	7.24896E-08	1.58985E-06	1.589853385
537934.634220050.34	537934.63	4220050.3	0.002002309	0.003152075	0.003152075	0.001754874	0.00235818	0.00234562	0.002335328	0.000890163	5.38583E-08	1.61328E-06	7.96447E-08	1.74678E-06	1.746779524
537949.244220045.03	537949.24	4220045	0.001852456	0.002916174	0.002916174	0.001623539	0.002181694	0.002170074	0.002160552	0.000823543	4.98275E-08	1.49254E-06	7.36841E-08	1.61605E-06	1.616050627
537962.524220038.39	537962.52	4220038.4	0.001723226	0.002712738	0.002712738	0.001510279	0.002029496	0.002018686	0.002009829	0.000766092	4.63515E-08	1.38842E-06	6.85438E-08	1.50331E-06	1.503312774
537963.844219981.95	537963.84	4219982	0.001852902	0.002916876	0.002916876	0.00162393	0.00218222	0.002170597	0.002161073	0.000823742	4.98395E-08	1.4929E-06	7.37019E-08	1.61644E-06	1.616440073
537981.114219975.97	537981.11	4219976	0.001641867	0.00258466	0.00258466	0.001438973	0.001933677	0.001923377	0.001914938	0.000729922	4.41631E-08	1.32287E-06	6.53076E-08	1.43234E-06	1.432336121
537990.44219970.66	537990.4	4219970.7	0.001541813	0.002427154	0.002427154	0.001351284	0.001815841	0.001806169	0.001798244	0.000685441	4.14718E-08	1.24225E-06	6.13278E-08	1.34505E-06	1.345051389
537973.144219998.55	537973.14	4219998.6	0.001697103	0.002671614	0.002671614	0.001487384	0.00199873	0.001988084	0.001979361	0.000754478	4.56488E-08	1.36737E-06	6.75047E-08	1.48052E-06	1.48052319
537984.434219993.9	537984.43	4219993.9	0.001574705	0.002478932	0.002478932	0.001380111	0.001854578	0.0018447	0.001836606	0.000700064	4.23565E-08	1.26875E-06	6.26361E-08	1.37375E-06	1.373745263
537996.384219988.59	537996.38	4219988.6	0.001455615	0.002291459	0.002291459	0.001275738	0.001714322	0.001705191	0.00169771	0.00064712	3.91532E-08	1.1728E-06	5.78992E-08	1.26985E-06	1.269853413
537978.454220013.82	537978.45	4220013.8	0.00160542	0.002527284	0.002527284	0.00140703	0.001890752	0.001880681	0.00187243	0.000713719	4.31827E-08	1.2935E-06	6.38579E-08	1.40054E-06	1.400540583
537991.074220006.52	537991.07	4220006.5	0.001485007	0.002337728	0.002337728	0.001301497	0.001748938	0.001739622	0.00173199	0.000660187	3.99438E-08	1.19648E-06	5.90683E-08	1.29549E-06	1.295494302
538003.024220001.21	538003.02	4220001.2	0.00137636	0.002166694	0.002166694	0.001206277	0.001620981	0.001612347	0.001605273	0.000611886	3.70214E-08	1.10894E-06	5.47467E-08	1.20071E-06	1.200712722
537984.434220030.42	537984.43	4220030.4	0.00151133	0.002379165	0.002379165	0.001324567	0.001779939	0.001770458	0.00176269	0.000671889	4.06519E-08	1.21769E-06	6.01153E-08	1.31846E-06	1.318457746
537997.044220024.45	537997.04	4220024.5	0.001401471	0.002206224	0.002206224	0.001228284	0.001650555	0.001641764	0.001634561	0.00062305	3.76969E-08	1.12918E-06	5.57455E-08	1.22262E-06	1.222619097
538011.654220019.8	538011.65	4220019.8	0.001280604	0.002015952	0.002015952	0.001122353	0.001508206	0.001500173	0.001493591	0.000569316	3.44458E-08	1.03179E-06	5.09378E-08	1.11718E-06	1.117176414

Wood Hollow Residences Project - Mitigated Risk

Offroad DPM Emissions, Ground Level Concentrations and Health Risk Calculations

Residential Receptors

Phase	Year	Emissions (lbs/day)	Days Per Year	Work Hours Per Day	Emissions (g/s)	Wt. Trip Length (mi)	Modeled Trip Length (mi)
Demolition	2026	0.0487		10	0.000613497		
Site Preparation -2026	2026	0.0000		10	0		
Site Preparation -2027	2027	0.0000		10	0		
Grading	2027	0.0088		10	0.000110398		
Building Construction -2027	2027	0.0000		10	0		
Building Construction -2028	2028	0.0000		10	0		
Building Construction -2029	2029	0.0000		10	0		
Paving - 2029	2029	0.0000		10	0		

Risk Summary	
Maximum Risk, Uncontrolled	0.031
UTM X	537988.41
UTM Y	4219932.15

		AERMOD Column Identifier:	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*					
			Demolition	Site Preparation - 2026	Site Preparation -2027	Grading	Building Construction - 2027	Building Construction - 2028	Building Construction - 2029	Paving - 2029	Child Risk				
Unique Identifier	X (UTM)	Y (UTM)	2026	2026	2027	2027	2027	2028	2029	2029	3rd Trimester	0<2	2<16	Total	per million
5375714219724	537571	4219724	0.000497656	0	0	8.95529E-05	0	0	0	0	1.3386E-08	7.27311E-09	0	2.06591E-08	0.020659109
5375754219738	537575	4219738	0.000515509	0	0	9.27655E-05	0	0	0	0	1.38662E-08	7.53402E-09	0	2.14002E-08	0.021400227
5375774219756	537577	4219756	0.00050373	0	0	9.06458E-05	0	0	0	0	1.35494E-08	7.36187E-09	0	2.09112E-08	0.020911242
5375474219848	537547	4219848	0.000193067	0	0	3.47423E-05	0	0	0	0	5.19314E-09	2.82163E-09	0	8.01477E-09	0.00801477
5375104219859	537510	4219859	0.000160748	0	0	2.89266E-05	0	0	0	0	4.32382E-09	2.34929E-09	0	6.67312E-09	0.006673118
5374624219861	537462	4219861	0.000164988	0	0	2.96894E-05	0	0	0	0	4.43785E-09	2.41125E-09	0	6.8491E-09	0.006849101
5374364219822	537436	4219822	0.000209828	0	0	3.77584E-05	0	0	0	0	5.64397E-09	3.06658E-09	0	8.71056E-09	0.008710555
5374284219802	537428	4219802	0.000232822	0	0	4.18961E-05	0	0	0	0	6.26247E-09	3.40263E-09	0	9.66509E-09	0.009665095
5373974219826	537397	4219826	0.000186141	0	0	3.34959E-05	0	0	0	0	5.00684E-09	2.7204E-09	0	7.72724E-09	0.007727237
5373694219842	537369	4219842	0.000171736	0	0	3.09038E-05	0	0	0	0	4.61937E-09	2.50988E-09	0	7.12925E-09	0.007129249
5373464219851	537346	4219851	0.000168718	0	0	3.03606E-05	0	0	0	0	4.53818E-09	2.46576E-09	0	7.00395E-09	0.007003947
5373274219864	537327	4219864	0.000153037	0	0	2.75389E-05	0	0	0	0	4.1164E-09	2.23659E-09	0	6.35299E-09	0.006352985
5373084219872	537308	4219872	0.000141558	0	0	2.54733E-05	0	0	0	0	3.80765E-09	2.06883E-09	0	5.87648E-09	0.00587648
5373284219929	537328	4219929	0.00010838	0	0	1.9503E-05	0	0	0	0	2.91522E-09	1.58395E-09	0	4.49917E-09	0.004499172
5373704219959	537370	4219959	8.81534E-05	0	0	1.58631E-05	0	0	0	0	2.37116E-09	1.28834E-09	0	3.65949E-09	0.003659493
5373204219970	537320	4219970	9.12699E-05	0	0	1.6424E-05	0	0	0	0	2.45499E-09	1.33388E-09	0	3.78887E-09	0.00378887
5373804219975	537380	4219975	8.15337E-05	0	0	1.46719E-05	0	0	0	0	2.1931E-09	1.19159E-09	0	3.38469E-09	0.003384693
5373304219998	537330	4219998	8.20184E-05	0	0	1.47591E-05	0	0	0	0	2.20614E-09	1.19868E-09	0	3.40481E-09	0.003404813
5373864219995	537386	4219995	7.50368E-05	0	0	1.35028E-05	0	0	0	0	2.01835E-09	1.09664E-09	0	3.11499E-09	0.003114988
5373864220023	537386	4220023	6.88896E-05	0	0	1.23966E-05	0	0	0	0	1.853E-09	1.0068E-09	0	2.8598E-09	0.002859798
5374254220024	537425	4220024	6.60736E-05	0	0	1.18899E-05	0	0	0	0	1.77725E-09	9.65647E-10	0	2.7429E-09	0.0027429
5374294220041	537429	4220041	6.4092E-05	0	0	1.15333E-05	0	0	0	0	1.72395E-09	9.36687E-10	0	2.66064E-09	0.002660639
5373984220063	537398	4220063	6.08834E-05	0	0	1.09559E-05	0	0	0	0	1.63765E-09	8.89794E-10	0	2.52744E-09	0.002527441
5374014220082	537401	4220082	5.82147E-05	0	0	1.04757E-05	0	0	0	0	1.56586E-09	8.50792E-10	0	2.41666E-09	0.002416656
5374084220102	537408	4220102	5.573E-05	0	0	1.00286E-05	0	0	0	0	1.49903E-09	8.14479E-10	0	2.31351E-09	0.00231351
5375124219962	537512	4219962	7.87975E-05	0	0	1.41796E-05	0	0	0	0	2.1195E-09	1.1516E-09	0	3.27111E-09	0.003271106
5375634219961	537563	4219961	0.000100423	0	0	1.80711E-05	0	0	0	0	2.70119E-09	1.46766E-09	0	4.16885E-09	0.004168852
5375264220026	537526	4220026	7.2E-05	0	0	1.29563E-05	0	0	0	0	1.93666E-09	1.05226E-09	0	2.98892E-09	0.002988921
5375234220064	537523	4220064	6.59939E-05	0	0	1.18755E-05	0	0	0	0	1.77511E-09	9.64482E-10	0	2.73959E-09	0.00273959
5374854220057	537485	4220057	6.03129E-05	0	0	1.08533E-05	0	0	0	0	1.6223E-09	8.81456E-10	0	2.50376E-09	0.002503756
5375204220090	537520	4220090	6.24049E-05	0	0	1.12297E-05	0	0	0	0	1.67857E-09	9.1203E-10	0	2.5906E-09	0.002590602
5374764220098	537476	4220098	5.53374E-05	0	0	9.95793E-06	0	0	0	0	1.48847E-09	8.08741E-10	0	2.29721E-09	0.002297211
5375224220118	537522	4220118	6.06687E-05	0	0	1.09173E-05	0	0	0	0	1.63187E-09	8.86656E-10	0	2.51853E-09	0.002518528
5374724220119	537472	4220119	5.31472E-05	0	0	9.5638E-06	0	0	0	0	1.42956E-09	7.76732E-10	0	2.20629E-09	0.00220629
5374714220147	537471	4220147	5.11227E-05	0	0	9.19949E-06	0	0	0	0	1.3751E-09	7.47144E-10	0	2.12225E-09	0.002122246
5375204220145	537520	4220145	5.7681E-05	0	0	1.03796E-05	0	0	0	0	1.55151E-09	8.42991E-10	0	2.3945E-09	0.002394499
5375224220166	537522	4220166	5.61104E-05	0	0	1.0097E-05	0	0	0	0	1.50926E-09	8.20038E-10	0	2.3293E-09	0.002329301
537988.414219932.1	537988.41	4219932.2	0.000745767	0	0	0.0001342	0	0	0	0	2.00597E-08	1.08992E-08	0	3.09589E-08	0.030958865
537975.134219953.4	537975.13	4219953.4	0.000714294	0	0	0.000128537	0	0	0	0	1.92131E-08	1.04392E-08	0	2.96524E-08	0.029652359
537969.164219968.0	537969.16	4219968	0.00068992	0	0	0.000124151	0	0	0	0	1.85575E-08	1.0083E-08	0	2.86405E-08	0.028640516
537945.254219984.6	537945.25	4219984.6	0.000682945	0	0	0.000122895	0	0	0	0	1.83699E-08	9.98105E-09	0	2.83509E-08	0.028350945
537951.894219999.8	537951.89	4219999.9	0.000641822	0	0	0.000115495	0	0	0	0	1.72638E-08	9.38005E-09	0	2.66438E-08	0.026643827
537957.24220015.15	537957.2	4220015.2	0.00060573	0	0	0.000109001	0	0	0	0	1.6293E-08	8.85257E-09	0	2.51455E-08	0.025145546
537933.964220011.8	537933.96	4220011.8	0.000633619	0	0	0.000114019	0	0	0	0	1.70431E-08	9.26017E-09	0	2.63033E-08	0.02630332
537929.984220034.4	537929.98	4220034.4	0.000587601	0	0	0.000105738	0	0	0	0	1.58053E-08	8.58763E-09	0	2.4393E-08	0.024392968
537942.594220029.7	537942.59	4220029.8	0.000588472	0	0	0.000105895	0	0	0	0	1.58288E-08	8.60036E-09	0	2.44291E-08	0.024429132
537957.24220025.77	537957.2	4220025.8	0.00058527	0	0	0.000105319	0	0	0	0	1.57426E-08	8.55356E-09	0	2.42962E-08	0.02429619
537934.634220050.3	537934.63	4220050.3	0.00055257	0	0	9.94346E-05	0	0	0	0	1.48631E-08	8.07566E-09	0	2.29387E-08	0.022938747
537949.244220045.0	537949.24	4220045	0.000554669	0	0	9.98122E-05	0	0	0	0	1.49195E-08	8.10633E-09	0	2.30258E-08	0.023025847
537962.524220038.3	537962.52	4220038.4	0.000558374	0	0	0.000100479	0	0	0	0	1.50192E-08	8.16048E-09	0	2.31797E-08	0.023179674
537963.844219981.9	537963.84	4219982	0.000666503	0	0	0.000119937	0	0	0	0	1.79276E-08	9.74076E-09	0	2.76684E-08	0.027668404
537981.114219975.9	537981.11	4219976	0.000659908	0	0	0.00011875	0	0	0	0	1.77503E-08	9.64437E-09	0	2.73946E-08	0.027394623
537990.44219970.66	537990.4	4219970.7	0.000661104	0	0	0.000118965	0	0	0	0	1.77824E-08	9.66185E-09	0	2.74443E-08	0.027444285
537973.144219998.5	537973.14	4219998.6	0.000623491	0	0	0.000112197	0	0	0	0	1.67707E-08	9.11214E-09	0	2.58828E-08	0.025882844
537984.434219993.9	537984.43	4219993.9	0.000622006	0	0	0.00011193	0	0	0	0	1.67308E-08	9.09045E-09	0	2.58212E-08	0.025821212
537996.384219988.5	537996.38	4219988.6	0.00062154	0	0	0.000111846	0	0	0	0	1.67182E-08	9.08363E-09	0	2.58019E-08	0.025801856

537978.454220013.8	537978.45	4220013.8	0.000590583	0	0	0.000106275	0	0	0	0	1.58855E-08	8.6312E-09	0	2.45167E-08	0.024516742
537991.074220006.5	537991.07	4220006.5	0.000593681	0	0	0.000106832	0	0	0	0	1.59689E-08	8.67648E-09	0	2.46454E-08	0.024645355
538003.024220001.2	538003.02	4220001.2	0.000594006	0	0	0.000106891	0	0	0	0	1.59776E-08	8.68123E-09	0	2.46589E-08	0.024658853
537984.434220030.4	537984.43	4220030.4	0.000557583	0	0	0.000100337	0	0	0	0	1.49979E-08	8.14892E-09	0	2.31468E-08	0.02314682
537997.044220024.4	537997.04	4220024.5	0.000559233	0	0	0.000100634	0	0	0	0	1.50423E-08	8.17304E-09	0	2.32153E-08	0.023215329
538011.654220019.8	538011.65	4220019.8	0.000557712	0	0	0.00010036	0	0	0	0	1.50014E-08	8.1508E-09	0	2.31522E-08	0.023152168

Wood Hollow Residences Project - Mitigated Risk

Cancer Risk Summary & Maximum Annual GLC for Chronic Calculations

Cancer Risk Summary

Max Risk: 2.215777

XY	X	Y	Offroad Risk	Haul Risk	Total Risk	
3757142197	537571	4219724	1.843452702	0.020659	1.8641118	1
3757542197	537575	4219738	2.048211236	0.0214	2.0696115	2
3757742197	537577	4219756	2.19486572	0.020911	2.215777	3
3754742198	537547	4219848	1.465390406	0.008015	1.4734052	4
3751042198	537510	4219859	1.069364883	0.006673	1.076038	5
3746242198	537462	4219861	0.950368066	0.006849	0.9572172	6
3743642198	537436	4219822	1.050754896	0.008711	1.0594655	7
3742842198	537428	4219802	1.03944008	0.009665	1.0491052	8
3739742198	537397	4219826	0.873014224	0.007727	0.8807415	9
3736942198	537369	4219842	0.804805424	0.007129	0.8119347	10
3734642198	537346	4219851	0.776841763	0.007004	0.7838457	11
3732742198	537327	4219864	0.684681994	0.006353	0.691035	12
3730842198	537308	4219872	0.610812308	0.005876	0.6166888	13
3732842199	537328	4219929	0.426694447	0.004499	0.4311936	14
3737042199	537370	4219959	0.319311486	0.003659	0.322971	15
3732042199	537320	4219970	0.319276714	0.003789	0.3230656	16
3738042199	537380	4219975	0.281368255	0.003385	0.2847529	17
3733042199	537330	4219998	0.267918436	0.003405	0.2713232	18
3738642199	537386	4219995	0.243028622	0.003115	0.2461436	19
3738642200	537386	4220023	0.205127117	0.00286	0.2079869	20
3742542200	537425	4220024	0.193367219	0.002743	0.1961101	21
3742942200	537429	4220041	0.177858897	0.002661	0.1805195	22
3739842200	537398	4220063	0.161223961	0.002527	0.1637514	23
3740142200	537401	4220082	0.14669621	0.002417	0.1491129	24
3740842201	537408	4220102	0.133788835	0.002314	0.1361023	25
3751242199	537512	4219962	0.293934864	0.003271	0.297206	26
3756342199	537563	4219961	0.388869441	0.004169	0.3930383	27
3752642200	537526	4220026	0.220440716	0.002989	0.2234296	28
3752342200	537523	4220064	0.188958127	0.00274	0.1916977	29
3748542200	537485	4220057	0.16485416	0.002504	0.1673579	30
3752042200	537520	4220090	0.171829428	0.002591	0.17442	31
3747642200	537476	4220098	0.141000553	0.002297	0.1432978	32
3752242201	537522	4220118	0.160556338	0.002519	0.1630749	33
3747242201	537472	4220119	0.131973736	0.002206	0.13418	34
3747142201	537471	4220147	0.124087441	0.002122	0.1262097	35
3752042201	537520	4220145	0.146557122	0.002394	0.1489516	36
3752242201	537522	4220166	0.138267472	0.002329	0.1405968	37
88.4142199	537988.41	4219932.2	1.405763341	0.030959	1.4367222	38
975.1342199	537975.13	4219953.4	1.532583863	0.029652	1.5622362	39
69.1642199	537969.16	4219968	1.579616501	0.028641	1.608257	40
45.2542199	537945.25	4219984.6	1.85077569	0.028351	1.8791266	41
51.8942199	537951.89	4219999.9	1.721138634	0.026644	1.7477825	42
957.2422001	537957.2	4220015.2	1.617837909	0.025146	1.6429835	43
33.9642200	537933.96	4220011.8	1.91186318	0.026303	1.9381665	44
29.9842200	537929.98	4220034.4	1.867438443	0.024393	1.8918314	45
42.5942200	537942.59	4220029.8	1.738809776	0.024429	1.7632389	46
957.2422002	537957.2	4220025.8	1.589853385	0.024296	1.6141496	47
34.6342200	537934.63	4220050.3	1.746779524	0.022939	1.7697183	48
49.2442200	537949.24	4220045	1.616050627	0.023026	1.6390765	49
62.5242200	537962.52	4220038.4	1.503312774	0.02318	1.5264924	50
63.8442199	537963.84	4219982	1.616440073	0.027668	1.6441085	51
81.1142199	537981.11	4219976	1.432336121	0.027395	1.4597307	52
990.4421997	537990.4	4219970.7	1.345051389	0.027444	1.3724957	53
73.1442199	537973.14	4219998.6	1.48052319	0.025883	1.506406	54
984.4342199	537984.43	4219993.9	1.373745263	0.025821	1.3995665	55
96.3842199	537996.38	4219988.6	1.269853413	0.025802	1.2956553	56
78.4542200	537978.45	4220013.8	1.400540583	0.024517	1.4250573	57
91.0742200	537991.07	4220006.5	1.295494302	0.024645	1.3201397	58
03.0242200	538003.02	4220001.2	1.200712722	0.024659	1.2253716	59
84.4342200	537984.43	4220030.4	1.318457746	0.023147	1.3416046	60
97.0442200	537997.04	4220024.5	1.222619097	0.023215	1.2458344	61
011.6542200	538011.65	4220019.8	1.117176414	0.023152	1.1403286	62

Max GLC for Chronic Calcs

Max GLC: 0.009219

XY	X	Y	2026	2027	2028	2029	Max
5375714219724	537571	4219724	0.0059373	0.0077568	0.0024754	0.003404	0.0059373
5375754219738	537575	4219738	0.0065594	0.0086116	0.0027504	0.0037821	
5375774219756	537577	4219756	0.0069803	0.0092194	0.0029473	0.0040529	
5375474219848	537547	4219848	0.0045171	0.0061295	0.0019678	0.0027059	
5375104219859	537510	4219859	0.0033162	0.0044766	0.001436	0.0019746	
5374624219861	537462	4219861	0.0029693	0.0039824	0.0012762	0.0017549	
5374364219822	537436	4219822	0.0033104	0.004408	0.001411	0.0019403	
5374284219802	537428	4219802	0.0033	0.0043651	0.0013958	0.0019194	
5373974219826	537397	4219826	0.0027622	0.0036645	0.0011723	0.0016121	
5373694219842	537369	4219842	0.0025465	0.0033782	0.0010807	0.0014861	
5373464219851	537346	4219851	0.002461	0.0032614	0.0010432	0.0014345	
5373274219864	537327	4219864	0.0021734	0.0028752	0.0009194	0.0012643	
5373084219872	537308	4219872	0.0019439	0.0025659	0.0008202	0.0011279	
5373284219929	537328	4219929	0.0013675	0.0017942	0.000573	0.0007879	
5373704219959	537370	4219959	0.0010304	0.0013439	0.0004288	0.0005896	
5373204219970	537320	4219970	0.0010334	0.0013443	0.0004287	0.0005896	
5373804219975	537380	4219975	0.0009118	0.0011849	0.0003778	0.0005196	
5373304219998	537330	4219998	0.0008726	0.0011291	0.0003598	0.0004947	
5373864219995	537386	4219995	0.0007922	0.0010243	0.0003263	0.0004488	
5373864220023	537386	4220023	0.0006742	0.0008656	0.0002754	0.0003788	
5374254220024	537425	4220024	0.0006367	0.0008161	0.0002597	0.0003571	
5374294220041	537429	4220041	0.0005889	0.0007513	0.0002388	0.0003284	
5373984220063	537398	4220063	0.0005366	0.0006815	0.0002165	0.0002977	
5374014220082	537401	4220082	0.0004911	0.0006206	0.000197	0.0002709	
5374084220102	537408	4220102	0.0004505	0.0005665	0.0001797	0.000247	
5375124219962	537512	4219962	0.0009461	0.0012367	0.0003947	0.0005428	
5375634219961	537563	4219961	0.0012479	0.0016354	0.0005222	0.0007181	
5375264220026	537526	4220026	0.0007225	0.0009298	0.000296	0.0004071	
5375234220064	537523	4220064	0.0006236	0.0007978	0.0002537	0.0003489	
5374854220057	537485	4220057	0.0005468	0.0006965	0.0002214	0.0003044	
5375204220090	537520	4220090	0.0005694	0.0007259	0.0002307	0.0003173	
5374764220098	537476	4220098	0.0004714	0.0005964	0.0001893	0.0002604	
5375224220118	537522	4220118	0.0005344	0.0006787	0.0002156	0.0002965	
5374724220119	537472	4220119	0.0004426	0.0005585	0.0001772	0.0002437	
5374714220147	537471	4220147	0.0004173	0.0005253	0.0001666	0.0002291	
5375204220145	537520	4220145	0.0004901	0.0006199	0.0001968	0.0002706	
5375224220166	537522	4220166	0.0004641	0.0005852	0.0001857	0.0002553	
537988.414219932.	537988.41	4219932.2	0.0048939	0.005981	0.0018877	0.0025958	
537975.134219953	537975.13	4219953.4	0.0052366	0.0065028	0.002058	0.00283	
537969.164219968.	537969.16	4219968	0.005351	0.006694	0.0021211	0.0029168	
537945.254219984.	537945.25	4219984.6	0.0061442	0.0078206	0.0024853	0.0034175	
537951.894219999.	537951.89	4219999.9	0.0057205	0.007274	0.0023112	0.0031781	
537957.24220015.1	537957.2	4220015.2	0.0053796	0.0068378	0.0021725	0.0029874	
537933.964220011.	537933.96	4220011.8	0.0062751	0.0080658	0.0025673	0.0035303	
537929.984220034.	537929.98	4220034.4	0.006098	0.0078727	0.0025076	0.0034483	
537942.594220029.	537942.59	4220029.8	0.0057193	0.0073379	0.0023349	0.0032108	
537957.24220025.7	537957.2	4220025.8	0.0052766	0.0067178	0.0021349	0.0029357	
537934.634220050.	537934.63	4220050.3	0.005707	0.0073646	0.0023456	0.0032255	
537949.244220045.	537949.24	4220045	0.0053233	0.0068212	0.0021701	0.0029841	
537962.524220038.	537962.52	4220038.4	0.0049943	0.006353	0.0020187	0.0027759	
537963.844219981.	537963.84	4219982	0.0054363	0.006843	0.0021706	0.0029848	
537981.114219975.	537981.11	4219976	0.0048864	0.0060761	0.0019234	0.0026449	
537990.44219970.6	537990.4	4219970.7	0.0046301	0.0057132	0.0018062	0.0024837	
537973.144219998.	537973.14	4219998.6	0.0049922	0.0062699	0.0019881	0.0027338	
537984.434219993	537984.43	4219993.9	0.0046756	0.0058256	0.0018447	0.0025367	
537996.384219988.	537996.38	4219988.6	0.0043686	0.0053934	0.0017052	0.0023448	
537978.454220013.	537978.45	4220013.8	0.0047233	0.0059313	0.0018807	0.0025861	
537991.074220006.	537991.07	4220006.5	0.0044164	0.005495	0.0017396	0.0023922	
538003.024220001.	538003.02	4220001.2	0.0041371	0.0051008	0.0016123	0.0022172	
537984.434220030.	537984.43	4220030.4	0.0044481	0.005584	0.0017705	0.0024346	
537997.044220024.	537997.04	4220024.5	0.0041669	0.0051857	0.0016418	0.0022576	
538011.654220019	538011.65	4220019.8	0.0038543	0.0047469	0.0015002	0.0020629	

Wood Hollow Residences Project - Mitigated Risk

Maximum Individual Non-Cancer Impact Calculations - Sensitive Receptors (Maximum Impacted Senior Residential Receptor) (IMPACT AT ALL OTHER LOCATIONS ON THE PROJECT SITE WOULD BE LESS THAN SHOWN)

Maximum Non-cancer Chronic Hazards / Toxicological Endpoints*

Receptor Group	Pollutant	CREL[1]	CONC	WFrac	$CONC_{WF}$	HI		ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK
Project:																				
MEI - Max	DPM	5.00E+00	9.22E-03	1.00E+00	9.22E-03	0.002		-	-	-	-	-	-	-	-	-	-	-	1.84E-03	-
Cumulative	DPM	5.00E+00	8.07E-03	1.00E+00	8.07E-03	0.002	**Total Risk**				-			-				-	1.61E-03	
							Threshold				1.00			1.00				1.00	1.00	
							Over?				NO			NO				NO	NO	

Notes:

1. California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values," "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," "OEHHA/ARB Approved Acute Reference Exposure Levels and Target Organs," and "OEHHA/ARB Approved 8-Hour Reference Exposure Levels and Target Organs," http://www.arb.ca.gov/toxics/healthval/healthval.htm. Tables last updated: May 8, 2018. Downloaded: 08/14/18.

Source: ESA, 2020

Where:

$CONC_{WF}$	Pollutant Concentration ($\mu g/m^3$) multiplied by the weight fraction
CREL	Chronic Reference Exposure Level
HI	Hazard Index
MEI	Maximally Exposed Individual
WFrac	Weight fraction of speciated component

* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

XY	X	Y	Construction Area	Haul Route
5375714219724	537571	4219724	2.65077	0.81118
5375754219738	537575	4219738	2.9452	0.84028
5375774219756	537577	4219756	3.15608	0.82108
5375474219848	537547	4219848	2.10714	0.3147
5375104219859	537510	4219859	1.53768	0.26202
5374624219861	537462	4219861	1.36657	0.26893
5374364219822	537436	4219822	1.51092	0.34202
5374284219802	537428	4219802	1.49465	0.3795
5373974219826	537397	4219826	1.25534	0.30341
5373694219842	537369	4219842	1.15726	0.27993
5373464219851	537346	4219851	1.11705	0.27501
5373274219864	537327	4219864	0.98453	0.24945
5373084219872	537308	4219872	0.87831	0.23074
5373284219929	537328	4219929	0.61356	0.17666
5373704219959	537370	4219959	0.45915	0.14369
5373204219970	537320	4219970	0.4591	0.14877
5373804219975	537380	4219975	0.40459	0.1329
5373304219998	537330	4219998	0.38525	0.13369
5373864219995	537386	4219995	0.34946	0.12231
5373864220023	537386	4220023	0.29496	0.11229
5374254220024	537425	4220024	0.27805	0.1077
5374294220041	537429	4220041	0.25575	0.10447
5373984220063	537398	4220063	0.23183	0.09924
5374014220082	537401	4220082	0.21094	0.09489
5374084220102	537408	4220102	0.19238	0.09084
5375124219962	537512	4219962	0.42266	0.12844
5375634219961	537563	4219961	0.55917	0.16369
5375264220026	537526	4220026	0.31698	0.11736
5375234220064	537523	4220064	0.27171	0.10757
5374854220057	537485	4220057	0.23705	0.09831
5375204220090	537520	4220090	0.24708	0.10172
5374764220098	537476	4220098	0.20275	0.0902
5375224220118	537522	4220118	0.23087	0.09889
5374724220119	537472	4220119	0.18977	0.08663
5374714220147	537471	4220147	0.17843	0.08333
5375204220145	537520	4220145	0.21074	0.09402
5375224220166	537522	4220166	0.19882	0.09146
537988.414219932.1	537988.4	4219932	2.0214	1.2156
537975.134219953.4	537975.1	4219953	2.20376	1.1643
537969.164219968.0	537969.2	4219968	2.27139	1.12457
537945.254219984.6	537945.3	4219985	2.6613	1.1132
537951.894219999.8	537951.9	4220000	2.47489	1.04617
537957.24220015.15	537957.2	4220015	2.32635	0.98734
537933.964220011.8	537934	4220012	2.74914	1.0328
537929.984220034.4	537930	4220034	2.68526	0.95779
537942.594220029.7	537942.6	4220030	2.5003	0.95921

AERMOD Results

537957.24220025.77	537957.2	4220026	2.28611	0.95399
537934.634220050.3	537934.6	4220050	2.51176	0.90069
537949.244220045.0	537949.2	4220045	2.32378	0.90411
537962.524220038.3	537962.5	4220038	2.16167	0.91015
537963.844219981.9	537963.8	4219982	2.32434	1.0864
537981.114219975.9	537981.1	4219976	2.05961	1.07565
537990.44219970.66	537990.4	4219971	1.9341	1.0776
537973.144219998.5	537973.1	4219999	2.1289	1.01629
537984.434219993.9	537984.4	4219994	1.97536	1.01387
537996.384219988.5	537996.4	4219989	1.82597	1.01311
537978.454220013.8	537978.5	4220014	2.01389	0.96265
537991.074220006.5	537991.1	4220007	1.86284	0.9677
538003.024220001.2	538003	4220001	1.72655	0.96823
537984.434220030.4	537984.4	4220030	1.89586	0.90886
537997.044220024.4	537997	4220024	1.75805	0.91155
538011.654220019.8	538011.7	4220020	1.60643	0.90907

XY	X	Y
537571421	537571	4219724
537575421	537575	4219738
537577421	537577	4219756
537547421	537547	4219848
537510421	537510	4219859
537462421	537462	4219861
537436421	537436	4219822
537428421	537428	4219802
537397421	537397	4219826
537369421	537369	4219842
537346421	537346	4219851
537327421	537327	4219864
537308421	537308	4219872
537328421	537328	4219929
537370421	537370	4219959
537320421	537320	4219970
537380421	537380	4219975
537330421	537330	4219998
537386421	537386	4219995
537386422	537386	4220023
537425422	537425	4220024
537429422	537429	4220041
537398422	537398	4220063
537401422	537401	4220082
537408422	537408	4220102
537512421	537512	4219962
537563421	537563	4219961
537526422	537526	4220026
537523422	537523	4220064
537485422	537485	4220057
537520422	537520	4220090
537476422	537476	4220098
537522422	537522	4220118
537472422	537472	4220119
537471422	537471	4220147
537520422	537520	4220145
537522422	537522	4220166
537988.41	537988.4	4219932
537975.13	537975.1	4219953
537969.16	537969.2	4219968
537945.25	537945.3	4219985
537951.89	537951.9	4220000
537957.24	537957.2	4220015
537933.96	537934	4220012
537929.98	537930	4220034
537942.59	537942.6	4220030

Receptor Locations

537957.24	537957.2	4220026
537934.63	537934.6	4220050
537949.24	537949.2	4220045
537962.52	537962.5	4220038
537963.84	537963.8	4219982
537981.11	537981.1	4219976
537990.44	537990.4	4219971
537973.14	537973.1	4219999
537984.43	537984.4	4219994
537996.38	537996.4	4219989
537978.45	537978.5	4220014
537991.07	537991.1	4220007
538003.02	538003	4220001
537984.43	537984.4	4220030
537997.04	537997	4220024
538011.65	538011.7	4220020

Receptor Locations

On-site Mitigated Construction Emissions

Demolition (7/1/2026 - 9/30/2026)

	Total Tons	
PM2.5 (Exhaust + Fugitive dust)	0.1172483	23%

Site-Preparation (10/1/2026 - 3/31/2027)

	Total tons	
PM2.5 (Exhaust + Fugitive dust)	0.31508517	62%

Grading (4/1/2027 - 6/30/2027)

	Total Tons	
PM2.5 (Exhaust + Fugitive dust)	0.05426833	11%

Building Construction (7/1/2027 - 6/30/2029)

	Total Tons	
PM2.5 (Exhaust + Fugitive dust)	0.0224491	4%

Paving (7/1/2029 - 7/31/2029)

	Total Tons	
PM2.5 (Exhaust + Fugitive dust)	0.000365656	0%

*Used mitigated on-site construction emissions by phase (watered site per BAAQMD guidelines for all projects) .

Hauling/Vendor emissions

Demolition (7/1/2026 - 9/30/2026) [Hauling]

2026

	Total Tons	tons/mile	Tons associated w site	# Hauling Trips	Hauling Trip Lengt	Total VMT
PM2.5 (Exhaust + Fugitive dust)	0.008519410	1.46533E-07	4.25971E-05	2907	20	58140

Grading (4/1/2027 - 6/30/2027) [Hauling]

2027

	Total tons	tons/mile	Tons associated w site	# Hauling Trips	Hauling Trip Lengt	Total VMT
PM2.5 (Exhaust + Fugitive dust)	0.002270483	1.46294E-07	1.13524E-05	776	20	15520

Building Construction (7/1/2027 - 7/31/2029) [Vendor]

	2027			2028			2029		
	Total Tons	tons/mile	Tons associated w site	Total Tons	tons/mile	Tons associated w	Total Tons	tons/mile	Tons associated w site
PM2.5 (Exhaust + Fugitive dust)	0.001266140	1.16667E-07	1.50731E-05	0.002518519388	1.16033E-07	2.99824E-05	0.001144144207492	1.07183E-07	1.36208E-05

* 0.1 miles of each hauling or vendor trip was assumed to represent the vehilce travel while at or near the construction site (within 1000 ft radius of site)

	# Vendor T	Vendor Tri	Total VMT
Year	4426.62	8.4	37183.61
2027	1291.98	8.4	10852.63
2028	2583.96	8.4	21705.26
2029	1270.8	8.4	10674.72

No Hauling Emissions Included

	Total Tons/ye	**Avg lbs/year**
PM2.5 (Exhaust + Fugitive dust)	0.50941655	330.4323587

All Years Max	
Max lbs/day	Max lbs/hr
0	0
0	0

Hauling Emissions Included

	Total Tons/ye	**Avg lbs/year**
PM2.5 (Exhaust + Fugitive dust)	0.50945915	330.4599892

x	y	AERMOD Concentration	grams/second	AERMOD Concentration Haul	grams/second	PM 2.5 (ug/m^3)	Max PM2.5 - Residential		Max PM2.5 - Cumulative
537571	4219724	2.65077	0.004757383	0.81118	0.004757383	0.01647	0.01892	1.00000	0.01799
537575	4219738	2.9452		0.84028		0.01801		2.00000	
537577	4219756	3.15608		0.82108		0.01892		3.00000	
537547	4219848	2.10714		0.3147		0.01152		4.00000	
537510	4219859	1.53768		0.26202		0.00856		5.00000	
537462	4219861	1.36657		0.26893		0.00778		6.00000	
537436	4219822	1.51092		0.34202		0.00882		7.00000	
537428	4219802	1.49465		0.3795		0.00892		8.00000	
537397	4219826	1.25534		0.30341		0.00742		9.00000	
537369	4219842	1.15726		0.27993		0.00684		10.00000	
537346	4219851	1.11705		0.27501		0.00662		11.00000	
537327	4219864	0.98453		0.24945		0.00587		12.00000	
537308	4219872	0.87831		0.23074		0.00528		13.00000	
537328	4219929	0.61356		0.17666		0.00376		14.00000	
537370	4219959	0.45915		0.14369		0.00287		15.00000	
537320	4219970	0.4591		0.14877		0.00289		16.00000	
537380	4219975	0.40459		0.1329		0.00256		17.00000	
537330	4219998	0.38525		0.13369		0.00247		18.00000	
537386	4219995	0.34946		0.12231		0.00224		19.00000	
537386	4220023	0.29496		0.11229		0.00194		20.00000	
537425	4220024	0.27805		0.1077		0.00184		21.00000	
537429	4220041	0.25575		0.10447		0.00171		22.00000	
537398	4220063	0.23183		0.09924		0.00158		23.00000	
537401	4220082	0.21094		0.09489		0.00145		24.00000	
537408	4220102	0.19238		0.09084		0.00135		25.00000	
537512	4219962	0.42266		0.12844		0.00262		26.00000	
537563	4219961	0.55917		0.16369		0.00344		27.00000	
537526	4220026	0.31698		0.11736		0.00207		28.00000	
537523	4220064	0.27171		0.10757		0.00180		29.00000	
537485	4220057	0.23705		0.09831		0.00160		30.00000	
537520	4220090	0.24708		0.10172		0.00166		31.00000	
537476	4220098	0.20275		0.0902		0.00139		32.00000	
537522	4220118	0.23087		0.09889		0.00157		33.00000	
537472	4220119	0.18977		0.08663		0.00131		34.00000	
537471	4220147	0.17843		0.08333		0.00125		35.00000	
537520	4220145	0.21074		0.09402		0.00145		36.00000	
537522	4220166	0.19882		0.09146		0.00138		37.00000	
537988.41	4219932.15	2.0214		1.2156		0.01540		38.00000	
537975.13	4219953.4	2.20376		1.1643		0.01602		39.00000	
537969.16	4219968.01	2.27139		1.12457		0.01616		40.00000	
537945.25	4219984.61	2.6613		1.1132		0.01796		41.00000	
537951.89	4219999.88	2.47489		1.04617		0.01675		42.00000	
537957.2	4220015.15	2.32635		0.98734		0.01576		43.00000	
537933.96	4220011.83	2.74914		1.0328		0.01799		44.00000	
537929.98	4220034.41	2.68526		0.95779		0.01733		45.00000	
537942.59	4220029.76	2.5003		0.95921		0.01646		46.00000	
537957.2	4220025.77	2.28611		0.95399		0.01541		47.00000	
537934.63	4220050.34	2.51176		0.90069		0.01623		48.00000	
537949.24	4220045.03	2.32378		0.90411		0.01536		49.00000	
537962.52	4220038.39	2.16167		0.91015		0.01461		50.00000	
537963.84	4219981.95	2.32434		1.0864		0.01623		51.00000	
537981.11	4219975.97	2.05961		1.07565		0.01492		52.00000	
537990.4	4219970.66	1.9341		1.0776		0.01433		53.00000	
537973.14	4219998.55	2.1289		1.01629		0.01496		54.00000	
537984.43	4219993.9	1.97536		1.01387		0.01422		55.00000	
537996.38	4219988.59	1.82597		1.01311		0.01351		56.00000	
537978.45	4220013.82	2.01389		0.96265		0.01416		57.00000	
537991.07	4220006.52	1.86284		0.9677		0.01347		58.00000	
538003.02	4220001.21	1.72655		0.96823		0.01282		59.00000	
537984.43	4220030.42	1.89586		0.90886		0.01334		60.00000	
537997.04	4220024.45	1.75805		0.91155		0.01270		61.00000	
538011.65	4220019.8	1.60643		0.90907		0.01197		62.00000	

				Roadway			Rail		
Location	**ID**	**X UTM**	**Y UTM**	**PM 2.5**	**Chronic Risk**	**Cancer Risk**	**PM 2.5**	**Chronic Risk**	**Cancer Risk**
1	MEIR	537577	4219756	0.093548	0.012235	3.384424	0.00067	0.000143	0.530854
2	1	537571	4219724	0.093548	0.012235	3.384424	0.000703	0.000149	0.556588
3	2	537575	4219738	0.093548	0.012235	3.384424	0.000703	0.000149	0.556588
4	44	537933.96	4220012	0.145644	0.019538	5.724919	0.00107	0.000228	0.847545
5	45	537929.98	4220034	0.145644	0.019538	5.724919	0.00107	0.000228	0.847545

Units

** Cancer risk is one in one million

** PM2.5 is ug/m3

** Chronic risk is unitless

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 1/20/2025
** File: C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Residences Construction.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
  TITLEONE C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi
  TITLETWO Wood Hollow Residences
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 51140 Novato
  POLLUTID CONSTR
  FLAGPOLE 1.50
  RUNORNOT RUN
  ERRORFIL "Wood Hollow Residences Construction.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION CONSTRUCTION AREAPOLY   537630.851  4219695.708      9.620
** DESCRSRC Construction Area
** ------------------------------------------------------------------------
** Line Source Represented by Separated Volume Sources (2W)
** LINE VOLUME Source ID = HAUL
** DESCRSRC Hauling Route Offsite
** PREFIX HAUL
** Length of Side = 9.05
** Configuration = Separated 2W
** Emission Rate = 1.0
** Vertical Dimension = 7.25
** SZINIT = 3.37
** Nodes = 21
** 537733.978, 4219788.855, 11.97, 3.63, 8.42
** 537714.901, 4219735.615, 10.06, 3.63, 8.42
** 537738.585, 4219722.148, 9.65, 3.63, 8.42
** 537763.025, 4219708.186, 8.78, 3.63, 8.42
** 537757.754, 4219684.565, 8.08, 3.63, 8.42
** 537754.949, 4219671.621, 7.81, 3.63, 8.42
** 537748.986, 4219657.214, 7.11, 3.63, 8.42
** 537736.536, 4219633.975, 6.52, 3.63, 8.42
** 537749.063, 4219626.040, 6.60, 3.63, 8.42
** 537785.784, 4219602.434, 7.06, 3.63, 8.42
** 537821.826, 4219584.883, 6.92, 3.63, 8.42
** 537904.897, 4219544.064, 4.70, 3.63, 8.42
** 537931.909, 4219531.120, 4.18, 3.63, 8.42
** 537961.387, 4219520.889, 4.22, 3.63, 8.42
** 538000.496, 4219516.543, 5.39, 3.63, 8.42
** 538004.841, 4219428.187, 3.64, 3.63, 8.42
** 538004.841, 4219368.799, 3.55, 3.63, 8.42
** 537997.599, 4219305.067, 3.34, 3.63, 8.42
** 537981.666, 4219202.226, 5.35, 3.63, 8.42
** 537954.145, 4219042.788, 10.90, 3.63, 8.42
** 538032.236, 4219004.541, 11.72, 3.63, 8.42
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  LOCATION HAUL0002    VOLUME   537726.348 4219767.561 11.92
  LOCATION HAUL0003    VOLUME   537720.243 4219750.526 10.90
  LOCATION HAUL0004    VOLUME   537716.863 4219734.499 10.03
  LOCATION HAUL0005    VOLUME   537732.594 4219725.555 9.77
  LOCATION HAUL0006    VOLUME   537748.314 4219716.590 9.28
  LOCATION HAUL0007    VOLUME   537762.774 4219707.061 8.80
  LOCATION HAUL0008    VOLUME   537758.833 4219689.399 8.20
  LOCATION HAUL0009    VOLUME   537754.971 4219671.720 7.75
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LOCATION HAUL0010   VOLUME  537747.851 4219655.097 7.04
LOCATION HAUL0011   VOLUME  537739.306 4219639.145 6.53
LOCATION HAUL0012   VOLUME  537746.868 4219627.431 6.58
LOCATION HAUL0013   VOLUME  537762.099 4219617.660 6.83
LOCATION HAUL0014   VOLUME  537777.321 4219607.874 7.04
LOCATION HAUL0015   VOLUME  537793.008 4219598.916 7.20
LOCATION HAUL0016   VOLUME  537809.278 4219590.993 7.26
LOCATION HAUL0017   VOLUME  537825.541 4219583.057 7.08
LOCATION HAUL0018   VOLUME  537841.782 4219575.077 6.45
LOCATION HAUL0019   VOLUME  537858.023 4219567.096 5.72
LOCATION HAUL0020   VOLUME  537874.265 4219559.116 5.33
LOCATION HAUL0021   VOLUME  537890.506 4219551.135 5.05
LOCATION HAUL0022   VOLUME  537906.756 4219543.173 4.69
LOCATION HAUL0023   VOLUME  537923.075 4219535.353 4.36
LOCATION HAUL0024   VOLUME  537939.750 4219528.398 4.10
LOCATION HAUL0025   VOLUME  537956.846 4219522.465 4.05
LOCATION HAUL0026   VOLUME  537974.595 4219519.421 4.48
LOCATION HAUL0027   VOLUME  537992.580 4219517.423 5.22
LOCATION HAUL0028   VOLUME  538000.994 4219506.424 5.11
LOCATION HAUL0029   VOLUME  538001.883 4219488.350 4.61
LOCATION HAUL0030   VOLUME  538002.771 4219470.276 4.18
LOCATION HAUL0031   VOLUME  538003.660 4219452.202 3.97
LOCATION HAUL0032   VOLUME  538004.549 4219434.127 3.75
LOCATION HAUL0033   VOLUME  538004.841 4219416.039 3.60
LOCATION HAUL0034   VOLUME  538004.841 4219397.943 3.63
LOCATION HAUL0035   VOLUME  538004.841 4219379.847 3.61
LOCATION HAUL0036   VOLUME  538004.046 4219361.796 3.51
LOCATION HAUL0037   VOLUME  538002.002 4219343.815 3.38
LOCATION HAUL0038   VOLUME  537999.959 4219325.835 3.35
LOCATION HAUL0039   VOLUME  537997.916 4219307.855 3.36
LOCATION HAUL0040   VOLUME  537995.258 4219289.957 3.41
LOCATION HAUL0041   VOLUME  537992.488 4219272.074 3.62
LOCATION HAUL0042   VOLUME  537989.717 4219254.192 3.93
LOCATION HAUL0043   VOLUME  537986.946 4219236.309 4.43
LOCATION HAUL0044   VOLUME  537984.176 4219218.426 4.97
LOCATION HAUL0045   VOLUME  537981.376 4219200.549 5.73
LOCATION HAUL0046   VOLUME  537978.298 4219182.716 6.62
LOCATION HAUL0047   VOLUME  537975.220 4219164.884 7.47
LOCATION HAUL0048   VOLUME  537972.142 4219147.052 8.41
LOCATION HAUL0049   VOLUME  537969.064 4219129.219 9.11
LOCATION HAUL0050   VOLUME  537965.986 4219111.387 9.74
LOCATION HAUL0051   VOLUME  537962.908 4219093.555 10.26
LOCATION HAUL0052   VOLUME  537959.830 4219075.722 10.57
LOCATION HAUL0053   VOLUME  537956.752 4219057.890 10.83
LOCATION HAUL0054   VOLUME  537956.633 4219041.569 10.93
LOCATION HAUL0055   VOLUME  537972.885 4219033.610 11.09
LOCATION HAUL0056   VOLUME  537989.136 4219025.650 9.37
LOCATION HAUL0057   VOLUME  538005.388 4219017.691 3.42
LOCATION HAUL0058   VOLUME  538021.639 4219009.731 9.41
** End of LINE VOLUME Source ID = HAUL
** Source Parameters **
SRCPARAM CONSTRUCTION 0.0000372863   5.000     27   1.400
AREAVERT CONSTRUCTION 537630.851 4219695.708 537723.258 4219649.325
AREAVERT CONSTRUCTION 537732.213 4219649.504 537738.839 4219656.309
AREAVERT CONSTRUCTION 537744.390 4219667.950 537747.077 4219676.546
AREAVERT CONSTRUCTION 537749.584 4219693.738 537756.926 4219713.437
AREAVERT CONSTRUCTION 537764.627 4219726.868 537771.611 4219735.285
AREAVERT CONSTRUCTION 537781.282 4219744.060 537790.952 4219750.328
AREAVERT CONSTRUCTION 537802.235 4219754.268 537810.293 4219756.238
AREAVERT CONSTRUCTION 537796.146 4219795.458 537788.087 4219800.114
AREAVERT CONSTRUCTION 537791.131 4219803.516 537706.783 4219843.810
AREAVERT CONSTRUCTION 537687.262 4219853.481 537672.757 4219855.451
AREAVERT CONSTRUCTION 537619.748 4219878.911 537602.376 4219874.076
AREAVERT CONSTRUCTION 537629.418 4219771.281 537633.895 4219756.596
AREAVERT CONSTRUCTION 537634.970 4219739.762 537633.895 4219723.287
AREAVERT CONSTRUCTION 537630.314 4219695.529
** LINE VOLUME Source ID = HAUL
SRCPARAM HAUL0001   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0002   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0003   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0004   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0005   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0006   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0007   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0008   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0009   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0010   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0011   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0012   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0013   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0014   0.0172413793   3.63   8.42   3.37
SRCPARAM HAUL0015   0.0172413793   3.63   8.42   3.37
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  SRCPARAM HAUL0019   0.0172413793   3.63   8.42   3.37
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  SRCPARAM HAUL0021   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0022   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0023   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0024   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0025   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0026   0.0172413793   3.63   8.42   3.37
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  SRCPARAM HAUL0029   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0030   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0031   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0032   0.0172413793   3.63   8.42   3.37
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  SRCPARAM HAUL0034   0.0172413793   3.63   8.42   3.37
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  SRCPARAM HAUL0039   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0040   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0041   0.0172413793   3.63   8.42   3.37
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  SRCPARAM HAUL0047   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0048   0.0172413793   3.63   8.42   3.37
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  SRCPARAM HAUL0051   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0052   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0053   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0054   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0055   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0056   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0057   0.0172413793   3.63   8.42   3.37
  SRCPARAM HAUL0058   0.0172413793   3.63   8.42   3.37
** ----------------------------------------------------------------------
  URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 2"
** WeekDays:
  EMISFACT CONSTRUCTION HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT CONSTRUCTION HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
  EMISFACT CONSTRUCTION HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
  EMISFACT CONSTRUCTION HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
  EMISFACT CONSTRUCTION HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT CONSTRUCTION HRDOW 0.0 0.0 0.0 0.0 1.0 1.0
  EMISFACT CONSTRUCTION HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
  EMISFACT CONSTRUCTION HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
  EMISFACT CONSTRUCTION HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT CONSTRUCTION HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT CONSTRUCTION HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT CONSTRUCTION HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
  EMISFACT HAUL0001   HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT HAUL0001   HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
  EMISFACT HAUL0001   HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
  EMISFACT HAUL0001   HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT HAUL0002   HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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  EMISFACT HAUL0002   HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
  EMISFACT HAUL0002   HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT HAUL0003   HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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  EMISFACT HAUL0003   HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
  EMISFACT HAUL0003   HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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  EMISFACT HAUL0005   HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT HAUL0005   HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT HAUL0005    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT HAUL0005    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT HAUL0006    HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT HAUL0006    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT HAUL0018    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT HAUL0018    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT HAUL0019    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT HAUL0019    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT HAUL0020    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT HAUL0020    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT HAUL0020    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT HAUL0022    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT HAUL0023    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT HAUL0023    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT HAUL0023    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT HAUL0024    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT HAUL0025    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT HAUL0025    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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  EMISFACT HAUL0008    HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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** AERMOD Receptor Pathway
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** AERMOD Meteorology Pathway
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  SURFFILE "MET\Napa County Airport KAPC zip\Napa County Airport (KAPC)\KAPC_2013 - Copy.SFC"
  PROFFILE "MET\Napa County Airport KAPC zip\Napa County Airport (KAPC)\KAPC_2013 - Copy.PFL"
  SURFDATA 93227 2013
  UAIRDATA 23230 2013 OAKLAND/WSO_AP
  PROFBASE 4.3 METERS
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** AERMOD Output Pathway
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  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST "Wood Hollow Residences Construction.AD\01H1GALL.PLT" 31
  PLOTFILE 1 CONSTRUC 1ST "Wood Hollow Residences Construction.AD\01H1G001.PLT" 32
  PLOTFILE 1 Haul 1ST "Wood Hollow Residences Construction.AD\01H1G002.PLT" 33
  PLOTFILE PERIOD ALL "Wood Hollow Residences Construction.AD\PE00GALL.PLT" 34
  PLOTFILE PERIOD CONSTRUC "Wood Hollow Residences Construction.AD\PE00G001.PLT" 35
  PLOTFILE PERIOD Haul "Wood Hollow Residences Construction.AD\PE00G002.PLT" 36
  SUMMFILE "Wood Hollow Residences Construction.sum"
OU FINISHED


 *** Message Summary For AERMOD Model Setup ***

 --------- Summary of Total Messages --------
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A Total of         0 Fatal Error Message(s)
A Total of         2 Warning Message(s)
A Total of         0 Informational Message(s)


  ******** FATAL ERROR MESSAGES ********
        ***  NONE  ***


  ********   WARNING MESSAGES   ********
ME W186    960      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
ME W187    960      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

************************************
*** SETUP Finishes Successfully ***
************************************

 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***       01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                                  ***       16:39:55
                                                                                    PAGE  1
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                          ***    MODEL SETUP OPTIONS SUMMARY      ***
 ------------------------------------------------------------------------

 ** Model Options Selected:
    * Model Uses Regulatory DEFAULT Options
    * Model Is Setup For Calculation of Average CONCentration Values.
    * NO GAS DEPOSITION Data Provided.
    * NO PARTICLE DEPOSITION Data Provided.
    * Model Uses NO DRY DEPLETION. DDPLETE  =  F
    * Model Uses NO WET DEPLETION. WETDPLT  =  F
    * Stack-tip Downwash.
    * Model Accounts for ELEVated Terrain Effects.
    * Use Calms Processing Routine.
    * Use Missing Data Processing Routine.
    * No Exponential Decay.
    * Model Uses URBAN Dispersion Algorithm for the SBL for    59 Source(s),
     for Total of    1 Urban Area(s):
  Urban Population =    51140.0 ;  Urban Roughness Length =  1.000 m
    * Urban Roughness Length of 1.0 Meter Used.
    * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
    * CCVR_Sub - Meteorological data includes CCVR substitutions
    * TEMP_Sub - Meteorological data includes TEMP substitutions
    * Model Accepts FLAGPOLE Receptor . Heights.
    * The User Specified a Pollutant Type of: CONSTR

 **Model Calculates  1 Short Term Average(s) of:   1-HR
   and Calculates PERIOD Averages

 **This Run Includes:    59 Source(s);     3 Source Group(s); and     62 Receptor(s)

          with:     0 POINT(s), including
                 0 POINTCAP(s) and     0 POINTHOR(s)
           and:    58 VOLUME source(s)
           and:     1 AREA type source(s)
           and:     0 LINE source(s)
           and:     0 RLINE/RLINEXT source(s)
           and:     0 OPENPIT source(s)
           and:     0 BUOYANT LINE source(s) with a total of    0 line(s)
           and:     0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  18081

 **Output Options Selected:
      Model Outputs Tables of PERIOD Averages by Receptor
      Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
      Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
      Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                   m for Missing Hours
                                   b for Both Calm and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    4.30 ;  Decay Coef. =   0.000    ;  Rot. Angle =    0.0
           Emission Units = GRAMS/SEC                        ;  Emission Rate Unit Factor =   0.10000E+07
           Output Units   = MICROGRAMS/M**3
```

**Approximate Storage Requirements of Model = 3.6 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: Wood Hollow Residences Construction.err
**File for Summary of Results: Wood Hollow Residences Construction.sum

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE (METERS)	EMISSION RATE SCALAR VARY BY	AIRCRAFT
HAUL0001	0	0.17241E-01	537732.5	4219784.6	12.0	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0002	0	0.17241E-01	537726.3	4219767.6	11.9	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0003	0	0.17241E-01	537720.2	4219750.5	10.9	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0004	0	0.17241E-01	537716.9	4219734.5	10.0	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0005	0	0.17241E-01	537732.6	4219725.6	9.8	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0006	0	0.17241E-01	537748.3	4219716.6	9.3	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0007	0	0.17241E-01	537762.8	4219707.1	8.8	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0008	0	0.17241E-01	537758.8	4219689.4	8.2	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0009	0	0.17241E-01	537755.0	4219671.7	7.8	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0010	0	0.17241E-01	537747.9	4219655.1	7.0	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0011	0	0.17241E-01	537739.3	4219639.1	6.5	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0012	0	0.17241E-01	537746.9	4219627.4	6.6	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0013	0	0.17241E-01	537762.1	4219617.7	6.8	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0014	0	0.17241E-01	537777.3	4219607.9	7.0	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0015	0	0.17241E-01	537793.0	4219598.9	7.2	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0016	0	0.17241E-01	537809.3	4219591.0	7.3	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0017	0	0.17241E-01	537825.5	4219583.1	7.1	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0018	0	0.17241E-01	537841.8	4219575.1	6.5	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0019	0	0.17241E-01	537858.0	4219567.1	5.7	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0020	0	0.17241E-01	537874.3	4219559.1	5.3	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0021	0	0.17241E-01	537890.5	4219551.1	5.0	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0022	0	0.17241E-01	537906.8	4219543.2	4.7	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0023	0	0.17241E-01	537923.1	4219535.4	4.4	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0024	0	0.17241E-01	537939.8	4219528.4	4.1	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0025	0	0.17241E-01	537956.8	4219522.5	4.0	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0026	0	0.17241E-01	537974.6	4219519.4	4.5	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0027	0	0.17241E-01	537992.6	4219517.4	5.2	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0028	0	0.17241E-01	538001.0	4219506.4	5.1	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0029	0	0.17241E-01	538001.9	4219488.3	4.6	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0030	0	0.17241E-01	538002.8	4219470.3	4.2	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0031	0	0.17241E-01	538003.7	4219452.2	4.0	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0032	0	0.17241E-01	538004.5	4219434.1	3.8	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0033	0	0.17241E-01	538004.8	4219416.0	3.6	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0034	0	0.17241E-01	538004.8	4219397.9	3.6	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0035	0	0.17241E-01	538004.8	4219379.8	3.6	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0036	0	0.17241E-01	538004.0	4219361.8	3.5	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0037	0	0.17241E-01	538002.0	4219343.8	3.4	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0038	0	0.17241E-01	538000.0	4219325.8	3.3	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0039	0	0.17241E-01	537997.9	4219307.9	3.4	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0040	0	0.17241E-01	537995.3	4219290.0	3.4	3.63	8.42	3.37	YES	HRDOW	NO

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE (METERS)	EMISSION RATE SCALAR VARY BY	AIRCRAFT
HAUL0041	0	0.17241E-01	537992.5	4219272.1	3.6	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0042	0	0.17241E-01	537989.7	4219254.2	3.9	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0043	0	0.17241E-01	537986.9	4219236.3	4.4	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0044	0	0.17241E-01	537984.2	4219218.4	5.0	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0045	0	0.17241E-01	537981.4	4219200.5	5.7	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0046	0	0.17241E-01	537978.3	4219182.7	6.6	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0047	0	0.17241E-01	537975.2	4219164.9	7.5	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0048	0	0.17241E-01	537972.1	4219147.1	8.4	3.63	8.42	3.37	YES	HRDOW	NO
HAUL0049	0	0.17241E-01	537969.1	4219129.2	9.1	3.63	8.42	3.37	YES	HRDOW	NO

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HAUL0050     0  0.17241E-01  537966.0 4219111.4    9.7    3.63    8.42    3.37   YES  HRDOW      NO
HAUL0051     0  0.17241E-01  537962.9 4219093.6   10.3    3.63    8.42    3.37   YES  HRDOW      NO
HAUL0052     0  0.17241E-01  537959.8 4219075.7   10.6    3.63    8.42    3.37   YES  HRDOW      NO
HAUL0053     0  0.17241E-01  537956.8 4219057.9   10.8    3.63    8.42    3.37   YES  HRDOW      NO
HAUL0054     0  0.17241E-01  537956.6 4219041.6   10.9    3.63    8.42    3.37   YES  HRDOW      NO
HAUL0055     0  0.17241E-01  537972.9 4219033.6   11.1    3.63    8.42    3.37   YES  HRDOW      NO
HAUL0056     0  0.17241E-01  537989.1 4219025.6    9.4    3.63    8.42    3.37   YES  HRDOW      NO
HAUL0057     0  0.17241E-01  538005.4 4219017.7    3.4    3.63    8.42    3.37   YES  HRDOW      NO
HAUL0058     0  0.17241E-01  538021.6 4219009.7    9.4    3.63    8.42    3.37   YES  HRDOW      NO
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***     01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                                    ***     16:39:55
                                                PAGE  4
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                         *** AREAPOLY SOURCE DATA ***

        NUMBER EMISSION RATE  LOCATION OF AREA  BASE    RELEASE  NUMBER    INIT.  URBAN  EMISSION RATE   AIRCRAFT
 SOURCE     PART.  (GRAMS/SEC      X       Y     ELEV.   HEIGHT  OF VERTS.   SZ   SOURCE  SCALAR VARY
   ID      CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)          (METERS)          BY
-------------------------------------------------------------

CONSTRUCTION    0  0.37286E-04  537630.9 4219695.7    9.6    5.00    27      1.40   YES  HRDOW      NO
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***     01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                                    ***     16:39:55
                                                PAGE  5
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                      *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                             SOURCE IDs
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 CONSTRUC  CONSTRUCTION,

 HAUL     HAUL0001   , HAUL0002   , HAUL0003   , HAUL0004   , HAUL0005   , HAUL0006   , HAUL0007   , HAUL0008   ,

          HAUL0009   , HAUL0010   , HAUL0011   , HAUL0012   , HAUL0013   , HAUL0014   , HAUL0015   , HAUL0016   ,

          HAUL0017   , HAUL0018   , HAUL0019   , HAUL0020   , HAUL0021   , HAUL0022   , HAUL0023   , HAUL0024   ,

          HAUL0025   , HAUL0026   , HAUL0027   , HAUL0028   , HAUL0029   , HAUL0030   , HAUL0031   , HAUL0032   ,

          HAUL0033   , HAUL0034   , HAUL0035   , HAUL0036   , HAUL0037   , HAUL0038   , HAUL0039   , HAUL0040   ,

          HAUL0041   , HAUL0042   , HAUL0043   , HAUL0044   , HAUL0045   , HAUL0046   , HAUL0047   , HAUL0048   ,

          HAUL0049   , HAUL0050   , HAUL0051   , HAUL0052   , HAUL0053   , HAUL0054   , HAUL0055   , HAUL0056   ,

          HAUL0057   , HAUL0058   ,

 ALL      CONSTRUCTION, HAUL0001   , HAUL0002   , HAUL0003   , HAUL0004   , HAUL0005   , HAUL0006   , HAUL0007   ,

          HAUL0008   , HAUL0009   , HAUL0010   , HAUL0011   , HAUL0012   , HAUL0013   , HAUL0014   , HAUL0015   ,

          HAUL0016   , HAUL0017   , HAUL0018   , HAUL0019   , HAUL0020   , HAUL0021   , HAUL0022   , HAUL0023   ,

          HAUL0024   , HAUL0025   , HAUL0026   , HAUL0027   , HAUL0028   , HAUL0029   , HAUL0030   , HAUL0031   ,

          HAUL0032   , HAUL0033   , HAUL0034   , HAUL0035   , HAUL0036   , HAUL0037   , HAUL0038   , HAUL0039   ,

          HAUL0040   , HAUL0041   , HAUL0042   , HAUL0043   , HAUL0044   , HAUL0045   , HAUL0046   , HAUL0047   ,

          HAUL0048   , HAUL0049   , HAUL0050   , HAUL0051   , HAUL0052   , HAUL0053   , HAUL0054   , HAUL0055   ,

          HAUL0056   , HAUL0057   , HAUL0058   ,
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***     01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                                    ***     16:39:55
                                                PAGE  6
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                      *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID  URBAN POP                          SOURCE IDs
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          51140.   CONSTRUCTION, HAUL0001   , HAUL0002   , HAUL0003   , HAUL0004   , HAUL0005   , HAUL0006   ,
HAUL0007   ,
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      HAUL0008  , HAUL0009  , HAUL0010  , HAUL0011  , HAUL0012  , HAUL0013  , HAUL0014  , HAUL0015  ,

      HAUL0016  , HAUL0017  , HAUL0018  , HAUL0019  , HAUL0020  , HAUL0021  , HAUL0022  , HAUL0023  ,

      HAUL0024  , HAUL0025  , HAUL0026  , HAUL0027  , HAUL0028  , HAUL0029  , HAUL0030  , HAUL0031  ,

      HAUL0032  , HAUL0033  , HAUL0034  , HAUL0035  , HAUL0036  , HAUL0037  , HAUL0038  , HAUL0039  ,

      HAUL0040  , HAUL0041  , HAUL0042  , HAUL0043  , HAUL0044  , HAUL0045  , HAUL0046  , HAUL0047  ,

      HAUL0048  , HAUL0049  , HAUL0050  , HAUL0051  , HAUL0052  , HAUL0053  , HAUL0054  , HAUL0055  ,

      HAUL0056  , HAUL0057  , HAUL0058  ,
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE  7
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = CONSTRUCTION ; SOURCE TYPE = AREAPOLY :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                         DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                         DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE  8
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0001    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                         DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                         DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE  9
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0002    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                         DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                         DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
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                                              PAGE  10
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0003    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----------------------------------------------------------------
                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                         DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                         DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                              ***      16:39:55
                                              PAGE  11
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0004    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----------------------------------------------------------------
                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                         DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                         DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                              ***      16:39:55
                                              PAGE  12
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0005    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----------------------------------------------------------------
                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                         DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                         DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                              ***      16:39:55
                                              PAGE  13
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0006    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----------------------------------------------------------------
                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                         DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
```

```
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION 18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 14
*** MODELOPTs:   RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0007    ; SOURCE TYPE = VOLUME  :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION 18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 15
*** MODELOPTs:   RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0008    ; SOURCE TYPE = VOLUME  :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION 18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 16
*** MODELOPTs:   RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0009    ; SOURCE TYPE = VOLUME  :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION 18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 17
*** MODELOPTs:   RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0010    ; SOURCE TYPE = VOLUME  :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
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  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
 *** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE  18
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = HAUL0011    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
 *** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE  19
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = HAUL0012    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
 *** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE  20
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = HAUL0013    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
 *** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE  21
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
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SOURCE ID = HAUL0014    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                                  ***      16:39:55
                                                                                    PAGE  22
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0015    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                                  ***      16:39:55
                                                                                    PAGE  23
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0016    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                                  ***      16:39:55
                                                                                    PAGE  24
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0017    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0018 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0019 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0020 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0021 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

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  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 29
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0022    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 30
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0023    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 31
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0024    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
 17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 32
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0025    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
 *** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION 18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 33
 *** MODELOPTs:   RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = HAUL0026    ; SOURCE TYPE = VOLUME  :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
 *** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION 18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 34
 *** MODELOPTs:   RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = HAUL0027    ; SOURCE TYPE = VOLUME  :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
 *** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION 18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 35
 *** MODELOPTs:   RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = HAUL0028    ; SOURCE TYPE = VOLUME  :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
 *** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION 18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 36
 *** MODELOPTs:   RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*
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          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = HAUL0029    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
   9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE  37
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = HAUL0030    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
   9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE  38
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = HAUL0031    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
   9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE  39
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = HAUL0032    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
   9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
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  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE 40
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0033    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE 41
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0034    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE 42
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0035    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE 43
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0036    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
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                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE 44
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0037    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE 45
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0038    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE 46
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0039    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE 47
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0040    ; SOURCE TYPE = VOLUME  :
```

```
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 48
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0041    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 49
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0042    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 50
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0043    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                          ***      16:39:55
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0044 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0045 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0046 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0047 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

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                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION 18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 55
*** MODELOPTs:   RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0048    ; SOURCE TYPE = VOLUME  :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION 18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 56
*** MODELOPTs:   RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0049    ; SOURCE TYPE = VOLUME  :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION 18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 57
*** MODELOPTs:   RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0050    ; SOURCE TYPE = VOLUME  :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                    DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION 18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                                   PAGE 58
*** MODELOPTs:   RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0051    ; SOURCE TYPE = VOLUME  :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                    DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
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  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
 *** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE  59
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = HAUL0052    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
 *** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE  60
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = HAUL0053    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
 *** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE  61
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = HAUL0054    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .1000E+01  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .1000E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
 *** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                    PAGE  62
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
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SOURCE ID = HAUL0055    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                    PAGE 63
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0056    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                    PAGE 64
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0057    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 ***  *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***  *** Wood Hollow Residences                          ***      16:39:55
                                                                    PAGE 65
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = HAUL0058    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .1000E+01 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .1000E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                        DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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( 537571.0, 4219724.0,   25.8,   61.0,    1.5);    ( 537575.0, 4219738.0,   25.2,   61.0,    1.5);
( 537577.0, 4219756.0,   25.1,   61.0,    1.5);    ( 537547.0, 4219848.0,   32.0,   61.0,    1.5);
( 537510.0, 4219859.0,   34.3,   61.0,    1.5);    ( 537462.0, 4219861.0,   28.1,   61.0,    1.5);
( 537436.0, 4219822.0,   25.9,   61.0,    1.5);    ( 537428.0, 4219802.0,   25.4,   61.0,    1.5);
( 537397.0, 4219826.0,   26.6,   59.4,    1.5);    ( 537369.0, 4219842.0,   24.1,   70.4,    1.5);
( 537346.0, 4219851.0,   21.0,   70.4,    1.5);    ( 537327.0, 4219864.0,   21.3,   70.4,    1.5);
( 537308.0, 4219872.0,   22.0,   70.4,    1.5);    ( 537328.0, 4219929.0,   24.7,   70.4,    1.5);
( 537370.0, 4219959.0,   30.4,   70.4,    1.5);    ( 537320.0, 4219970.0,   24.9,   70.4,    1.5);
( 537380.0, 4219975.0,   31.3,   70.4,    1.5);    ( 537330.0, 4219998.0,   25.2,   70.4,    1.5);
( 537386.0, 4219995.0,   31.6,   70.4,    1.5);    ( 537386.0, 4220023.0,   30.6,   70.4,    1.5);
( 537425.0, 4220024.0,   34.9,   70.4,    1.5);    ( 537429.0, 4220041.0,   34.5,   70.4,    1.5);
( 537398.0, 4220063.0,   31.7,   70.4,    1.5);    ( 537401.0, 4220082.0,   32.3,   70.4,    1.5);
( 537408.0, 4220102.0,   34.0,   70.4,    1.5);    ( 537512.0, 4219962.0,   56.5,   56.5,    1.5);
( 537563.0, 4219961.0,   42.3,   61.0,    1.5);    ( 537526.0, 4220026.0,   52.6,   56.5,    1.5);
( 537523.0, 4220064.0,   52.9,   55.4,    1.5);    ( 537485.0, 4220057.0,   54.2,   54.9,    1.5);
( 537520.0, 4220090.0,   52.4,   55.0,    1.5);    ( 537476.0, 4220098.0,   53.4,   54.2,    1.5);
( 537522.0, 4220118.0,   48.9,   55.2,    1.5);    ( 537472.0, 4220119.0,   52.6,   52.6,    1.5);
( 537471.0, 4220147.0,   50.4,   51.9,    1.5);    ( 537520.0, 4220145.0,   48.8,   54.3,    1.5);
( 537522.0, 4220166.0,   48.3,   48.3,    1.5);    ( 537988.4, 4219932.1,    3.8,   61.0,    1.5);
( 537975.1, 4219953.4,    4.4,   61.0,    1.5);    ( 537969.2, 4219968.0,    4.1,   61.0,    1.5);
( 537945.2, 4219984.6,    3.7,   61.0,    1.5);    ( 537951.9, 4219999.9,    3.8,   61.0,    1.5);
( 537957.2, 4220015.1,    3.7,   61.0,    1.5);    ( 537934.0, 4220011.8,    3.7,   61.0,    1.5);
( 537930.0, 4220034.4,    3.7,   61.0,    1.5);    ( 537942.6, 4220029.8,    3.7,   61.0,    1.5);
( 537957.2, 4220025.8,    3.6,   61.0,    1.5);    ( 537934.6, 4220050.3,    3.5,   61.0,    1.5);
( 537949.2, 4220045.0,    3.6,   61.0,    1.5);    ( 537962.5, 4220038.4,    3.6,   61.0,    1.5);
( 537963.8, 4219982.0,    3.8,   61.0,    1.5);    ( 537981.1, 4219976.0,    3.7,   61.0,    1.5);
( 537990.4, 4219970.7,    3.6,   61.0,    1.5);    ( 537973.1, 4219998.5,    3.6,   61.0,    1.5);
( 537984.4, 4219993.9,    3.5,   61.0,    1.5);    ( 537996.4, 4219988.6,    3.4,   61.0,    1.5);
( 537978.5, 4220013.8,    3.5,   61.0,    1.5);    ( 537991.1, 4220006.5,    3.4,   61.0,    1.5);
( 538003.0, 4220001.2,    3.2,   61.0,    1.5);    ( 537984.4, 4220030.4,    3.3,   61.0,    1.5);
( 537997.0, 4220024.5,    3.2,   61.0,    1.5);    ( 538011.7, 4220019.8,    3.0,   61.0,    1.5);
```


*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: MET\Napa County Airport KAPC zip\Napa County Airport (KAPC)\KAPC_2013 - Copy.SFC Met Version: 18081
Profile file: MET\Napa County Airport KAPC zip\Napa County Airport (KAPC)\KAPC_2013 - Copy.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93227 Upper air station no.: 23230
Name: UNKNOWN Name: OAKLAND/WSO_AP
Year: 2013 Year: 2013

First 24 hours of scalar data
YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-O LEN Z0 BOWEN ALBEDO REF WS WD HT REF TA HT

```
-----------------------------------------------------------------
13 01 01  1 01  -20.7 0.199 -9.000 -9.000 -999.  214.   43.7 0.02  1.13  1.00   3.36 351.  10.0 275.9   2.0
13 01 01  1 02  -27.1 0.260 -9.000 -9.000 -999.  319.   74.6 0.02  1.13  1.00   4.34   2.  10.0 274.9   2.0
13 01 01  1 03  -25.5 0.247 -9.000 -9.000 -999.  294.   67.0 0.02  1.13  1.00   4.12   3.  10.0 276.4   2.0
13 01 01  1 04  -25.8 0.251 -9.000 -9.000 -999.  302.   69.4 0.02  1.13  1.00   4.19  16.  10.0 278.8   2.0
13 01 01  1 05  -14.0 0.151 -9.000 -9.000 -999.  145.   25.1 0.02  1.13  1.00   2.59  46.  10.0 278.8   2.0
13 01 01  1 06   -7.4 0.109 -9.000 -9.000 -999.   86.   15.7 0.02  1.13  1.00   1.91  58.  10.0 276.4   2.0
13 01 01  1 07   -8.1 0.114 -9.000 -9.000 -999.   92.   16.5 0.02  1.13  1.00   1.99  41.  10.0 275.4   2.0
13 01 01  1 08  -16.4 0.164 -9.000 -9.000 -999.  159.   29.5 0.02  1.13  1.00   2.79  32.  10.0 275.4   2.0
13 01 01  1 09   -2.4 0.118 -9.000 -9.000 -999.   97.   62.7 0.02  1.13  0.40   1.96  19.  10.0 278.8   2.0
13 01 01  1 10   44.3 0.214  0.522  0.005  117.  237.  -20.1 0.02  1.13  0.27   2.96 348.  10.0 280.9   2.0
13 01 01  1 11   83.7 0.281  0.854  0.005  272.  358.  -24.3 0.02  1.13  0.22   3.95 358.  10.0 283.1   2.0
13 01 01  1 12  106.0 0.335  1.290  0.008  740.  466.  -32.5 0.02  1.13  0.21   4.80  25.  10.0 284.2   2.0
13 01 01  1 13  110.0 0.352  1.394  0.008  899.  501.  -36.2 0.02  1.13  0.21   5.07  35.  10.0 284.9   2.0
13 01 01  1 14   96.1 0.269  1.347  0.007  929.  339.  -18.5 0.01  1.13  0.21   4.10  70.  10.0 286.4   2.0
13 01 01  1 15   64.2 0.299  1.186  0.007  948.  392.  -38.0 0.02  1.13  0.25   4.32  50.  10.0 287.0   2.0
13 01 01  1 16   17.3 0.266  0.768  0.006  953.  330.  -99.4 0.02  1.13  0.33   4.02  45.  10.0 286.4   2.0
13 01 01  1 17  -17.6 0.201 -9.000 -9.000 -999.  217.   44.4 0.01  1.13  0.57   3.68 103.  10.0 280.9   2.0
13 01 01  1 18  -23.9 0.235 -9.000 -9.000 -999.  273.   60.7 0.01  1.13  1.00   4.29  99.  10.0 280.4   2.0
13 01 01  1 19  -25.6 0.251 -9.000 -9.000 -999.  303.   69.6 0.01  1.13  1.00   4.58  88.  10.0 280.9   2.0
13 01 01  1 20  -10.7 0.129 -9.000 -9.000 -999.  120.   18.3 0.01  1.13  1.00   2.44  77.  10.0 278.8   2.0
13 01 01  1 21   -2.8 0.068 -9.000 -9.000 -999.   44.   10.5 0.02  1.13  1.00   1.13  51.  10.0 275.9   2.0
13 01 01  1 22   -6.6 0.100 -9.000 -9.000 -999.   76.   13.8 0.01  1.13  1.00   1.93  73.  10.0 275.4   2.0
13 01 01  1 23  -12.5 0.142 -9.000 -9.000 -999.  129.   22.3 0.02  1.13  1.00   2.45 357.  10.0 274.9   2.0
13 01 01  1 24   -3.1 0.072 -9.000 -9.000 -999.   47.   10.7 0.02  1.13  1.00   1.21  56.  10.0 272.5   2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR   WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 13 01 01 01  10.0 1 351.   3.36  276.0  99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                 PAGE  69
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: CONSTRUC ***
                    INCLUDING SOURCE(S):    CONSTRUCTION,

                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                       ** CONC OF CONSTR  IN MICROGRAMS/M**3                 **

    X-COORD (M)  Y-COORD (M)      CONC              X-COORD (M)  Y-COORD (M)      CONC
-----------------------------------------------------------------------------------
      537571.00   4219724.00     2.65077            537575.00   4219738.00     2.94520
      537577.00   4219756.00     3.15608            537547.00   4219848.00     2.10714
      537510.00   4219859.00     1.53768            537462.00   4219861.00     1.36657
      537436.00   4219822.00     1.51092            537428.00   4219802.00     1.49465
      537397.00   4219826.00     1.25534            537369.00   4219842.00     1.15726
      537346.00   4219851.00     1.11705            537327.00   4219864.00     0.98453
      537308.00   4219872.00     0.87831            537328.00   4219929.00     0.61356
      537370.00   4219959.00     0.45915            537320.00   4219970.00     0.45910
      537380.00   4219975.00     0.40459            537330.00   4219998.00     0.38525
      537386.00   4219995.00     0.34946            537386.00   4220023.00     0.29496
      537425.00   4220024.00     0.27805            537429.00   4220041.00     0.25575
      537398.00   4220063.00     0.23183            537401.00   4220082.00     0.21094
      537408.00   4220102.00     0.19238            537512.00   4219962.00     0.42266
      537563.00   4219961.00     0.55917            537526.00   4220026.00     0.31698
      537523.00   4220064.00     0.27171            537485.00   4220057.00     0.23705
      537520.00   4220090.00     0.24708            537476.00   4220098.00     0.20275
      537522.00   4220118.00     0.23087            537472.00   4220119.00     0.18977
      537471.00   4220147.00     0.17843            537520.00   4220145.00     0.21074
      537522.00   4220166.00     0.19882            537988.41   4219932.15     2.02140
      537975.13   4219953.40     2.20376            537969.16   4219968.01     2.27139
      537945.25   4219984.61     2.66130            537951.89   4219999.88     2.47489
      537957.20   4220015.15     2.32635            537933.96   4220011.83     2.74914
      537929.98   4220034.41     2.68526            537942.59   4220029.76     2.50030
      537957.20   4220025.77     2.28611            537934.63   4220050.34     2.51176
      537949.24   4220045.03     2.32378            537962.52   4220038.39     2.16167
      537963.84   4219981.95     2.32434            537981.11   4219975.97     2.05961
      537990.40   4219970.66     1.93410            537973.14   4219998.55     2.12890
      537984.43   4219993.90     1.97536            537996.38   4219988.59     1.82597
      537978.45   4220013.82     2.01389            537991.07   4220006.52     1.86284
      538003.02   4220001.21     1.72655            537984.43   4220030.42     1.89586
      537997.04   4220024.45     1.75805            538011.65   4220019.80     1.60643
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                                 PAGE  70
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 ,
HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 ,
HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 ,
HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CONSTR IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
537571.00	4219724.00	0.81118	537575.00	4219738.00	0.84028
537577.00	4219756.00	0.82108	537547.00	4219848.00	0.31470
537510.00	4219859.00	0.26202	537462.00	4219861.00	0.26893
537436.00	4219822.00	0.34202	537428.00	4219802.00	0.37950
537397.00	4219826.00	0.30341	537369.00	4219842.00	0.27993
537346.00	4219851.00	0.27501	537327.00	4219864.00	0.24945
537308.00	4219872.00	0.23074	537328.00	4219929.00	0.17666
537370.00	4219959.00	0.14369	537320.00	4219970.00	0.14877
537380.00	4219975.00	0.13290	537330.00	4219998.00	0.13369
537386.00	4219995.00	0.12231	537386.00	4220023.00	0.11229
537425.00	4220024.00	0.10770	537429.00	4220041.00	0.10447
537398.00	4220063.00	0.09924	537401.00	4220082.00	0.09489
537408.00	4220102.00	0.09084	537512.00	4219962.00	0.12844
537563.00	4219961.00	0.16369	537526.00	4220026.00	0.11736
537523.00	4220064.00	0.10757	537485.00	4220057.00	0.09831
537520.00	4220090.00	0.10172	537476.00	4220098.00	0.09020
537522.00	4220118.00	0.09889	537472.00	4220119.00	0.08663
537471.00	4220147.00	0.08333	537520.00	4220145.00	0.09402
537522.00	4220166.00	0.09146	537988.41	4219932.15	1.21560
537975.13	4219953.40	1.16430	537969.16	4219968.01	1.12457
537945.25	4219984.61	1.11320	537951.89	4219999.88	1.04617
537957.20	4220015.15	0.98734	537933.96	4220011.83	1.03280
537929.98	4220034.41	0.95779	537942.59	4220029.76	0.95921
537957.20	4220025.77	0.95399	537934.63	4220050.34	0.90069
537949.24	4220045.03	0.90411	537962.52	4220038.39	0.91015
537963.84	4219981.95	1.08640	537981.11	4219975.97	1.07565
537990.40	4219970.66	1.07760	537973.14	4219998.55	1.01629
537984.43	4219993.90	1.01387	537996.38	4219988.59	1.01311
537978.45	4220013.82	0.96265	537991.07	4220006.52	0.96770
538003.02	4220001.21	0.96823	537984.43	4220030.42	0.90886
537997.04	4220024.45	0.91155	538011.65	4220019.80	0.90907

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): CONSTRUCTION, HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 ,
HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 ,
HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 ,
HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CONSTR IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
537571.00	4219724.00	3.46195	537575.00	4219738.00	3.78548
537577.00	4219756.00	3.97716	537547.00	4219848.00	2.42184
537510.00	4219859.00	1.79970	537462.00	4219861.00	1.63550
537436.00	4219822.00	1.85294	537428.00	4219802.00	1.87415
537397.00	4219826.00	1.55875	537369.00	4219842.00	1.43719
537346.00	4219851.00	1.39206	537327.00	4219864.00	1.23399
537308.00	4219872.00	1.10905	537328.00	4219929.00	0.79022
537370.00	4219959.00	0.60284	537320.00	4219970.00	0.60786
537380.00	4219975.00	0.53750	537330.00	4219998.00	0.51893
537386.00	4219995.00	0.47177	537386.00	4220023.00	0.40725
537425.00	4220024.00	0.38575	537429.00	4220041.00	0.36022
537398.00	4220063.00	0.33108	537401.00	4220082.00	0.30583
537408.00	4220102.00	0.28321	537512.00	4219962.00	0.55110
537563.00	4219961.00	0.72287	537526.00	4220026.00	0.43435
537523.00	4220064.00	0.37928	537485.00	4220057.00	0.33536
537520.00	4220090.00	0.34880	537476.00	4220098.00	0.29296
537522.00	4220118.00	0.32976	537472.00	4220119.00	0.27640
537471.00	4220147.00	0.26176	537520.00	4220145.00	0.30475
537522.00	4220166.00	0.29028	537988.41	4219932.15	3.23699
537975.13	4219953.40	3.36806	537969.16	4219968.01	3.39596
537945.25	4219984.61	3.77450	537951.89	4219999.88	3.52106
537957.20	4220015.15	3.31369	537933.96	4220011.83	3.78194

537929.98	4220034.41	3.64304	537942.59	4220029.76	3.45951
537957.20	4220025.77	3.24010	537934.63	4220050.34	3.41245
537949.24	4220045.03	3.22789	537962.52	4220038.39	3.07182
537963.84	4219981.95	3.41074	537981.11	4219975.97	3.13525
537990.40	4219970.66	3.01170	537973.14	4219998.55	3.14518
537984.43	4219993.90	2.98923	537996.38	4219988.59	2.83908
537978.45	4220013.82	2.97654	537991.07	4220006.52	2.83054
538003.02	4220001.21	2.69478	537984.43	4220030.42	2.80472
537997.04	4220024.45	2.66959	538011.65	4220019.80	2.51550

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
INCLUDING SOURCE(S): CONSTRUCTION,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CONSTR IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
537571.00	4219724.00	263.97023	(13120508)	537575.00	4219738.00	288.37709	(13120508)
537577.00	4219756.00	313.12960	(13120508)	537547.00	4219848.00	323.26969	(13012908)
537510.00	4219859.00	275.00906	(13012908)	537462.00	4219861.00	278.05294	(13012908)
537436.00	4219822.00	249.36271	(13120508)	537428.00	4219802.00	254.24919	(13120508)
537397.00	4219826.00	225.84627	(13120508)	537369.00	4219842.00	224.24053	(15123109)
537346.00	4219851.00	232.61992	(15123109)	537327.00	4219864.00	220.60224	(17122518)
537308.00	4219872.00	209.25137	(17122518)	537328.00	4219929.00	219.96824	(13012908)
537370.00	4219959.00	197.24706	(16011809)	537320.00	4219970.00	217.50838	(16011809)
537380.00	4219975.00	198.61007	(16030208)	537330.00	4219998.00	209.27600	(14111008)
537386.00	4219995.00	214.77998	(14112117)	537386.00	4220023.00	219.17463	(14112117)
537425.00	4220024.00	183.26845	(14112117)	537429.00	4220041.00	149.36142	(14012408)
537398.00	4220063.00	154.38970	(14112117)	537401.00	4220082.00	139.19238	(14012408)
537408.00	4220102.00	148.46998	(14112417)	537512.00	4219962.00	181.59913	(14112117)
537563.00	4219961.00	237.34205	(17121218)	537526.00	4220026.00	183.07288	(17121218)
537523.00	4220064.00	149.02076	(15121716)	537485.00	4220057.00	163.76946	(17121218)
537520.00	4220090.00	153.43705	(15121716)	537476.00	4220098.00	150.25046	(17121218)
537522.00	4220118.00	162.51992	(15121716)	537472.00	4220119.00	139.84296	(17121218)
537471.00	4220147.00	121.65749	(17121218)	537520.00	4220145.00	156.93541	(15121716)
537522.00	4220166.00	150.32399	(15121716)	537988.41	4219932.15	227.98310	(17010418)
537975.13	4219953.40	248.05565	(14012117)	537969.16	4219968.01	246.15553	(14012117)
537945.25	4219984.61	244.25473	(15120908)	537951.89	4219999.88	235.12233	(15120908)
537957.20	4220015.15	225.66906	(15120908)	537933.96	4220011.83	232.05679	(15120908)
537929.98	4220034.41	227.51193	(17112917)	537942.59	4220029.76	220.92083	(17112917)
537957.20	4220025.77	219.48458	(15120908)	537934.63	4220050.34	217.92449	(17112917)
537949.24	4220045.03	213.11740	(17112917)	537962.52	4220038.39	210.45732	(15120908)
537963.84	4219981.95	235.88934	(14012117)	537981.11	4219975.97	235.86092	(14012117)
537990.40	4219970.66	232.09713	(14012117)	537973.14	4219998.55	219.81531	(14012117)
537984.43	4219993.90	223.31785	(14012117)	537996.38	4219988.59	222.92908	(14012117)
537978.45	4220013.82	214.25543	(15120908)	537991.07	4220006.52	212.72977	(14012117)
538003.02	4220001.21	214.32416	(14012117)	537984.43	4220030.42	207.46119	(15120908)
537997.04	4220024.45	199.62327	(15120908)	538011.65	4220019.80	201.34413	(14012117)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 ,
HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 ,
HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 ,
HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CONSTR IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
537571.00	4219724.00	145.63811	(14111008)	537575.00	4219738.00	142.75271	(14111008)
537577.00	4219756.00	137.71965	(16030208)	537547.00	4219848.00	112.94810	(14112117)
537510.00	4219859.00	106.14125	(14112117)	537462.00	4219861.00	105.60083	(14112117)
537436.00	4219822.00	102.13744	(14111008)	537428.00	4219802.00	103.93251	(14111008)
537397.00	4219826.00	97.30154	(14111008)	537369.00	4219842.00	96.37981	(14111008)
537346.00	4219851.00	94.78059	(14111008)	537327.00	4219864.00	91.86125	(14111008)
537308.00	4219872.00	88.21075	(14111008)	537328.00	4219929.00	82.02144	(16030208)
537370.00	4219959.00	88.79929	(14112117)	537320.00	4219970.00	82.06492	(14112117)
537380.00	4219975.00	84.70893	(15012808)	537330.00	4219998.00	87.83044	(15012808)
537386.00	4219995.00	76.53456	(14012408)	537386.00	4220023.00	81.77741	(14012408)
537425.00	4220024.00	69.20908	(14012408)	537429.00	4220041.00	68.62543	(15112518)

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537398.00  4220063.00    64.18760 (14012408)        537401.00  4220082.00    72.22484 (15112518)
537408.00  4220102.00    77.02226 (15112518)        537512.00  4219962.00    79.20762 (15112518)
537563.00  4219961.00   103.49594 (14112417)        537526.00  4220026.00    86.14266 (17121218)
537523.00  4220064.00    79.92814 (17121218)        537485.00  4220057.00    80.53724 (14112417)
537520.00  4220090.00    71.68853 (17121218)        537476.00  4220098.00    74.22509 (17121218)
537522.00  4220118.00    66.72273 (17120518)        537472.00  4220119.00    73.28085 (17121218)
537471.00  4220147.00    69.66850 (17121218)        537520.00  4220145.00    67.27750 (17120518)
537522.00  4220166.00    70.31932 (15121716)        537988.41  4219932.15    86.93265 (16012009)
537975.13  4219953.40    85.52863 (16012009)        537969.16  4219968.01    83.36301 (16012009)
537945.25  4219984.61    78.35289 (16012009)        537951.89  4219999.88    77.46436 (16012009)
537957.20  4220015.15    75.96897 (16012009)        537933.96  4220011.83    74.09421 (17112308)
537929.98  4220034.41    71.30288 (17112308)        537942.59  4220029.76    72.26406 (16012009)
537957.20  4220025.77    74.57302 (16012009)        537934.63  4220050.34    69.01187 (17112308)
537949.24  4220045.03    71.48162 (16012009)        537962.52  4220038.39    73.15134 (16012009)
537963.84  4219981.95    81.09726 (16012009)        537981.11  4219975.97    80.84677 (16012009)
537990.40  4219970.66    79.51372 (16012009)        537973.14  4219998.55    78.31880 (16012009)
537984.43  4219993.90    77.35001 (16012009)        537996.38  4219988.59    74.74624 (16012009)
537978.45  4220013.82    75.46759 (16012009)        537991.07  4220006.52    73.81925 (16012009)
538003.02  4220001.21    70.81335 (15120917)        537984.43  4220030.42    72.11446 (16012009)
537997.04  4220024.45    69.52785 (16012009)        538011.65  4220019.80    66.98052 (15122817)
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                    PAGE  74
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  ALL     ***
                   INCLUDING SOURCE(S):    CONSTRUCTION, HAUL0001   , HAUL0002   , HAUL0003   , HAUL0004   ,
          HAUL0005   , HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010   , HAUL0011   , HAUL0012   ,
          HAUL0013   , HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018   , HAUL0019   , HAUL0020   ,
          HAUL0021   , HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026   , HAUL0027   , . . .    ,

                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                      ** CONC OF CONSTR   IN MICROGRAMS/M**3                  **

   X-COORD (M)  Y-COORD (M)      CONC    (YYMMDDHH)         X-COORD (M)  Y-COORD (M)      CONC    (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
537571.00  4219724.00   322.32513 (13120508)        537575.00  4219738.00   353.51486 (13120508)
537577.00  4219756.00   380.66957 (13012908)        537547.00  4219848.00   362.70101 (13012908)
537510.00  4219859.00   312.83360 (13012908)        537462.00  4219861.00   324.88655 (13012908)
537436.00  4219822.00   271.42007 (13012908)        537428.00  4219802.00   283.01593 (13120508)
537397.00  4219826.00   248.65714 (17122518)        537369.00  4219842.00   255.65598 (17122518)
537346.00  4219851.00   262.51793 (16122609)        537327.00  4219864.00   258.95009 (16122609)
537308.00  4219872.00   249.68916 (16122609)        537328.00  4219929.00   257.23939 (16011809)
537370.00  4219959.00   255.87619 (14112117)        537320.00  4219970.00   253.88481 (14111008)
537380.00  4219975.00   278.21234 (14112117)        537330.00  4219998.00   266.03455 (14112117)
537386.00  4219995.00   287.57674 (14112117)        537386.00  4220023.00   274.89694 (14112117)
537425.00  4220024.00   220.30209 (14012408)        537429.00  4220041.00   207.65190 (14012408)
537398.00  4220063.00   218.24050 (14012408)        537401.00  4220082.00   206.02024 (15112518)
537408.00  4220102.00   224.05091 (14112417)        537512.00  4219962.00   244.94577 (15112518)
537563.00  4219961.00   338.96461 (17121218)        537526.00  4220026.00   269.21554 (17121218)
537523.00  4220064.00   227.49682 (17121218)        537485.00  4220057.00   239.26985 (14112417)
537520.00  4220090.00   199.57861 (15121716)        537476.00  4220098.00   224.47555 (17121218)
537522.00  4220118.00   221.32212 (15121716)        537472.00  4220119.00   213.12380 (17121218)
537471.00  4220147.00   191.32599 (17121218)        537520.00  4220145.00   221.67327 (15121716)
537522.00  4220166.00   220.64331 (15121716)        537988.41  4219932.15   265.09208 (14012117)
537975.13  4219953.40   284.81273 (14012117)        537969.16  4219968.01   277.17775 (14012117)
537945.25  4219984.61   276.91296 (15120908)        537951.89  4219999.88   264.72795 (15120908)
537957.20  4220015.15   252.15920 (15120908)        537933.96  4220011.83   263.27500 (17112917)
537929.98  4220034.41   254.42253 (17112917)        537942.59  4220029.76   250.74384 (17112917)
537957.20  4220025.77   243.29558 (15120908)        537934.63  4220050.34   242.20716 (17112917)
537949.24  4220045.03   240.76825 (17112917)        537962.52  4220038.39   233.53687 (17112917)
537963.84  4219981.95   262.51707 (15120908)        537981.11  4219975.97   266.11295 (14012117)
537990.40  4219970.66   265.27244 (14012117)        537973.14  4219998.55   251.93809 (15120908)
537984.43  4219993.90   248.44320 (14012117)        537996.38  4219988.59   251.58063 (14012117)
537978.45  4220013.82   244.16969 (15120908)        537991.07  4220006.52   235.27841 (15120908)
538003.02  4220001.21   240.29966 (14012117)        537984.43  4220030.42   234.42290 (15120908)
537997.04  4220024.45   229.34306 (15120908)        538011.65  4220019.80   223.53589 (14012117)
*** AERMOD - VERSION 23132 ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                          ***      16:39:55
                                                                    PAGE  75
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                      *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                     ** CONC OF CONSTR   IN MICROGRAMS/M**3                  **

                                                    NETWORK
GROUP ID                AVERAGE CONC          RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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CONSTRUC  1ST HIGHEST VALUE IS     3.15608 AT (  537577.00,  4219756.00,    25.09,    60.98,    1.50)  DC
      2ND HIGHEST VALUE IS     2.94520 AT (  537575.00,  4219738.00,    25.20,    60.98,    1.50)  DC
      3RD HIGHEST VALUE IS     2.74914 AT (  537933.96,  4220011.83,     3.67,    60.98,    1.50)  DC
      4TH HIGHEST VALUE IS     2.68526 AT (  537929.98,  4220034.41,     3.68,    60.98,    1.50)  DC
      5TH HIGHEST VALUE IS     2.66130 AT (  537945.25,  4219984.61,     3.70,    60.98,    1.50)  DC
      6TH HIGHEST VALUE IS     2.65077 AT (  537571.00,  4219724.00,    25.78,    60.98,    1.50)  DC
      7TH HIGHEST VALUE IS     2.51176 AT (  537934.63,  4220050.34,     3.53,    60.98,    1.50)  DC
      8TH HIGHEST VALUE IS     2.50030 AT (  537942.59,  4220029.76,     3.67,    60.98,    1.50)  DC
      9TH HIGHEST VALUE IS     2.47489 AT (  537951.89,  4219999.88,     3.78,    60.98,    1.50)  DC
     10TH HIGHEST VALUE IS     2.32635 AT (  537957.20,  4220015.15,     3.68,    60.98,    1.50)  DC

HAUL     1ST HIGHEST VALUE IS     1.21560 AT (  537988.41,  4219932.15,     3.81,    60.98,    1.50)  DC
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      2ND HIGHEST VALUE IS     1.16430 AT (  537975.13,  4219953.40,    4.42,   60.98,   1.50)  DC
      3RD HIGHEST VALUE IS     1.12457 AT (  537969.16,  4219968.01,    4.12,   60.98,   1.50)  DC
      4TH HIGHEST VALUE IS     1.11320 AT (  537945.25,  4219984.61,    3.70,   60.98,   1.50)  DC
      5TH HIGHEST VALUE IS     1.08640 AT (  537963.84,  4219981.95,    3.81,   60.98,   1.50)  DC
      6TH HIGHEST VALUE IS     1.07760 AT (  537990.40,  4219970.66,    3.61,   60.98,   1.50)  DC
      7TH HIGHEST VALUE IS     1.07565 AT (  537981.11,  4219975.97,    3.74,   60.98,   1.50)  DC
      8TH HIGHEST VALUE IS     1.04617 AT (  537951.89,  4219999.88,    3.78,   60.98,   1.50)  DC
      9TH HIGHEST VALUE IS     1.03280 AT (  537933.96,  4220011.83,    3.67,   60.98,   1.50)  DC
     10TH HIGHEST VALUE IS     1.01629 AT (  537973.14,  4219998.55,    3.64,   60.98,   1.50)  DC

ALL     1ST HIGHEST VALUE IS     3.97716 AT (  537577.00,  4219756.00,   25.09,   60.98,   1.50)  DC
      2ND HIGHEST VALUE IS     3.78548 AT (  537575.00,  4219738.00,   25.20,   60.98,   1.50)  DC
      3RD HIGHEST VALUE IS     3.78194 AT (  537933.96,  4220011.83,    3.67,   60.98,   1.50)  DC
      4TH HIGHEST VALUE IS     3.77450 AT (  537945.25,  4219984.61,    3.70,   60.98,   1.50)  DC
      5TH HIGHEST VALUE IS     3.64304 AT (  537929.98,  4220034.41,    3.68,   60.98,   1.50)  DC
      6TH HIGHEST VALUE IS     3.52106 AT (  537951.89,  4219999.88,    3.78,   60.98,   1.50)  DC
      7TH HIGHEST VALUE IS     3.46195 AT (  537571.00,  4219724.00,   25.78,   60.98,   1.50)  DC
      8TH HIGHEST VALUE IS     3.45951 AT (  537942.59,  4220029.76,    3.67,   60.98,   1.50)  DC
      9TH HIGHEST VALUE IS     3.41245 AT (  537934.63,  4220050.34,    3.53,   60.98,   1.50)  DC
     10TH HIGHEST VALUE IS     3.41074 AT (  537963.84,  4219981.95,    3.81,   60.98,   1.50)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
             GP = GRIDPOLR
             DC = DISCCART
             DP = DISCPOLR
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                                  ***      16:39:55
                                                                                    PAGE  76
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                          *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***


                     ** CONC OF CONSTR   IN MICROGRAMS/M**3                    **

                                 DATE                                    NETWORK
GROUP ID                 AVERAGE CONC    (YYMMDDHH)        RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)   OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

CONSTRUC HIGH   1ST HIGH VALUE IS    323.26969  ON 13012908: AT (  537547.00,  4219848.00,   32.01,   60.98,   1.50)  DC

HAUL    HIGH   1ST HIGH VALUE IS    145.63811  ON 14111008: AT (  537571.00,  4219724.00,   25.78,   60.98,   1.50)  DC

ALL     HIGH   1ST HIGH VALUE IS    380.66957  ON 13012908: AT (  537577.00,  4219756.00,   25.09,   60.98,   1.50)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
             GP = GRIDPOLR
             DC = DISCCART
             DP = DISCPOLR
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences Construction\Wood Hollow Resi ***      01/20/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences                                  ***      16:39:55
                                                                                    PAGE  77
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of         0 Fatal Error Message(s)
 A Total of         2 Warning Message(s)
 A Total of       852 Informational Message(s)

 A Total of     43824 Hours Were Processed

 A Total of       298 Calm Hours Identified

 A Total of       554 Missing Hours Identified (  1.26 Percent)


   ******** FATAL ERROR MESSAGES ********
         ***  NONE  ***


   ********  WARNING MESSAGES  ********
 ME W186    960      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used         0.50
 ME W187    960      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
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Appendix C

Operational Health Risk Assessment

Wood Hollow Residences

DPM Emission Calculations

	Freeway Traffic
Annual Growth Rate	1%
Traffic Data Year	2024
Analysis Start Year	2029
Analysis End Year	2031
Averaging Period (years)	2
Analysis Start Year	2031
Analysis End Year	2045
Averaging Period (years)	14
Analysis Start Year	2045
Analysis End Year	2059
Averaging Period (years)	14

US 101 North (four lanes)

		2024	*2029*	*2029*	*2031*	*2045*													
			2029 Average Truck	2029-2031 Average	2031 - 2045 Average	2045 - 2059 Average		EMISSION FACTORS				EMISSION RATES				SCALAR VALUES FOR AERMOD			
		2024 Truck Flow	Flow	Truck Flow	Truck Flow	Truck Flow	Truck Speed	Truck PM10 EF (diesel) [grams/mile]				Truck PM10 Exhaust Emissions [grams/second]				Truck PM10 Scalar			
Time	Length (mi)	(vehicle / hr)	(vehicle / hr)	(vehicle / hr)	(vehicle / hr)	(vehicle / hr)	mph	2029	2029-2031	2031-2045	2045-2059	2029	2029-2031	2031-2045	2045-2059	2029	2029-2031	2031-2045	2045-2059
12:00:00 AM	0.971638133	22.86	24.03	25.25	27.07	33.37	55	0.02093195	0.020931948	0.020257377	0.019006652	0.00013574	0.000142664	0.000148026	0.000171162	0.1466	0.1466	0.1466	0.1466
1:00:00 AM	0.971638133	17.83	18.73	19.69	21.11	26.02	55	0.02093195	0.020931948	0.020257377	0.019006652	0.00010584	0.000111239	0.00011542	0.00013346	0.1143	0.1143	0.1143	0.1143
2:00:00 AM	0.971638133	16.46	17.30	18.18	19.49	24.02	55	0.02093195	0.020931948	0.020257377	0.019006652	9.77362E-05	0.000102722	0.000106582	0.000123241	0.1056	0.1056	0.1056	0.1056
3:00:00 AM	0.971638133	11.74	12.34	12.97	13.90	17.14	55	0.02093195	0.020931948	0.020257377	0.019006652	6.97112E-05	7.32672E-05	7.60209E-05	8.79031E-05	0.0753	0.0753	0.0753	0.0753
4:00:00 AM	0.971638133	9.16	9.63	10.12	10.85	13.38	55	0.02093195	0.020931948	0.020257377	0.019006652	5.44127E-05	5.71883E-05	5.93377E-05	6.86123E-05	0.0588	0.0588	0.0588	0.0588
5:00:00 AM	0.971638133	9.06	9.52	10.00	10.73	13.22	55	0.02093195	0.020931948	0.020257377	0.019006652	5.378E-05	5.65233E-05	5.86477E-05	6.78145E-05	0.0581	0.0581	0.0581	0.0581
6:00:00 AM	0.971638133	14.11	14.83	15.59	16.71	20.60	55	0.02093195	0.020931948	0.020257377	0.019006652	8.3793E-05	8.80673E-05	9.13772E-05	0.00010566	0.0905	0.0905	0.0905	0.0905
7:00:00 AM	0.971638133	17.17	18.05	18.97	20.33	25.06	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000101947	0.000107147	0.000111174	0.000128551	0.1101	0.1101	0.1101	0.1101
8:00:00 AM	0.971638133	17.42	18.31	19.24	20.63	25.43	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000103439	0.000108716	0.000112802	0.000130433	0.1117	0.1117	0.1117	0.1117
9:00:00 AM	0.971638133	18.96	19.93	20.94	22.45	27.67	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000112573	0.000118315	0.000122762	0.00014195	0.1216	0.1216	0.1216	0.1216
10:00:00 AM	0.971638133	21.59	22.69	23.85	25.57	31.51	55	0.02093195	0.020931948	0.020257377	0.019006652	0.00012818	0.000134718	0.000139781	0.00016163	0.1384	0.1384	0.1384	0.1384
11:00:00 AM	0.971638133	24.00	25.22	26.51	28.42	35.03	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000142505	0.000149774	0.000155403	0.000179693	0.1539	0.1539	0.1539	0.1539
12:00:00 PM	0.971638133	31.79	33.41	35.12	37.65	46.40	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000188757	0.000198386	0.000205842	0.000238015	0.2039	0.2039	0.2039	0.2039
1:00:00 PM	0.971638133	40.58	42.65	44.83	48.06	59.23	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000240964	0.000253255	0.000262774	0.000303846	0.2602	0.2602	0.2602	0.2602
2:00:00 PM	0.971638133	73.69	77.44	81.39	87.27	107.55	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000437524	0.000459843	0.000477125	0.000551701	0.4725	0.4725	0.4725	0.4725
3:00:00 PM	0.971638133	145.39	152.81	160.60	172.19	212.21	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000863303	0.00090734	0.000941442	0.001088591	0.9324	0.9324	0.9324	0.9324
4:00:00 PM	0.971638133	155.94	163.89	172.25	184.68	227.60	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000925925	0.000973156	0.001009731	0.001167554	1.0000	1.0000	1.0000	1.0000
5:00:00 PM	0.971638133	129.78	136.40	143.36	153.70	189.42	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000770604	0.000809912	0.000840352	0.0009717	0.8323	0.8323	0.8323	0.8323
6:00:00 PM	0.971638133	64.29	67.57	71.02	76.14	93.84	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000381749	0.000401222	0.000416301	0.00048137	0.4123	0.4123	0.4123	0.4123
7:00:00 PM	0.971638133	35.80	37.63	39.55	42.40	52.26	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000212589	0.000223433	0.000231831	0.000268067	0.2296	0.2296	0.2296	0.2296
8:00:00 PM	0.971638133	27.51	28.91	30.39	32.58	40.15	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000163336	0.000171667	0.000178119	0.00020596	0.1764	0.1764	0.1764	0.1764
9:00:00 PM	0.971638133	31.53	33.14	34.83	37.34	46.02	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000187216	0.000196766	0.000204161	0.000236072	0.2022	0.2022	0.2022	0.2022
10:00:00 PM	0.971638133	30.73	32.30	33.95	36.40	44.85	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000182479	0.000191787	0.000198995	0.000230099	0.1971	0.1971	0.1971	0.1971
11:00:00 PM	0.971638133	28.37	29.82	31.34	33.60	41.41	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000168462	0.000177055	0.00018371	0.000212424	0.1819	0.1819	0.1819	0.1819
											MAX:	**0.000925925**	**0.000973156**	**0.001009731**	**0.001167554**				

US 101 South (Three Lane)

Time	Length (mi)	2024 Truck Flow (vehicle / hr)	2029 Average Truck Flow (vehicle / hr)	2029-2031 Average Truck Flow (vehicle / hr)	2031 - 2045 Average Truck Flow (vehicle / hr)	2045 - 2059 Average Truck Flow (vehicle / hr)	Truck Speed mph	EMISSION FACTORS Truck PM10 EF (diesel) [grams/mile] 2029	2029-2031	2031-2045	2045-2059	EMISSION RATES Truck PM10 Exhaust Emissions [grams/second] 2029	2029-2031	2031-2045	2045-2059	SCALAR VALUES FOR AERMOD Truck PM10 Scalar 2029	2029-2031	2031-2045	2045-2059
		2024	*2029*	*2029*	*2031*	*2045*													
12:00:00 AM	0.987607373	11.11	11.68	12.27	13.16	16.21	55	0.02093195	0.020931948	0.020257377	0.019006652	6.70478E-05	7.04679E-05	7.31164E-05	8.45446E-05	0.0864	0.0864	0.0864	0.0864
1:00:00 AM	0.987607373	1.70	1.79	1.88	2.02	2.49	55	0.02093195	0.020931948	0.020257377	0.019006652	1.02897E-05	1.08146E-05	1.1221E-05	1.29749E-05	0.0133	0.0133	0.0133	0.0133
2:00:00 AM	0.987607373	0.00	0.00	0.00	0.00	0.00	55	0.02093195	0.020931948	0.020257377	0.019006652	0	0	0	0	0.0000	0.0000	0.0000	0.0000
3:00:00 AM	0.987607373	0.00	0.00	0.00	0.00	0.00	55	0.02093195	0.020931948	0.020257377	0.019006652	0	0	0	0	0.0000	0.0000	0.0000	0.0000
4:00:00 AM	0.987607373	5.44	5.71	6.01	6.44	7.94	55	0.02093195	0.020931948	0.020257377	0.019006652	3.28148E-05	3.44887E-05	3.57849E-05	4.13782E-05	0.0423	0.0423	0.0423	0.0423
5:00:00 AM	0.987607373	28.46	29.91	31.43	33.70	41.53	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000171742	0.000180503	0.000187287	0.00021656	0.2213	0.2213	0.2213	0.2213
6:00:00 AM	0.987607373	60.21	63.28	66.51	71.30	87.87	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000363371	0.000381906	0.00039626	0.000458196	0.4683	0.4683	0.4683	0.4683
7:00:00 AM	0.987607373	88.80	93.33	98.09	105.17	129.61	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000535954	0.000563293	0.000584463	0.000675816	0.6908	0.6908	0.6908	0.6908
8:00:00 AM	0.987607373	100.19	105.30	110.67	118.65	146.22	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000604651	0.000635494	0.000659378	0.00076244	0.7793	0.7793	0.7793	0.7793
9:00:00 AM	0.987607373	102.99	108.24	113.76	121.97	150.31	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000621553	0.000653258	0.00067781	0.000783753	0.8011	0.8011	0.8011	0.8011
10:00:00 AM	0.987607373	108.11	113.62	119.42	128.03	157.78	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000652455	0.000685736	0.000711509	0.000822719	0.8409	0.8409	0.8409	0.8409
11:00:00 AM	0.987607373	110.23	115.86	121.76	130.55	160.89	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000665284	0.00069922	0.000725499	0.000838896	0.8574	0.8574	0.8574	0.8574
12:00:00 PM	0.987607373	113.82	119.62	125.72	134.79	166.12	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000686919	0.000721958	0.000749092	0.000866177	0.8853	0.8853	0.8853	0.8853
1:00:00 PM	0.987607373	116.69	122.65	128.90	138.20	170.32	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000704282	0.000740208	0.000768028	0.000888072	0.9077	0.9077	0.9077	0.9077
2:00:00 PM	0.987607373	124.12	130.45	137.11	147.00	181.16	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000749102	0.000787314	0.000816904	0.000944587	0.9655	0.9655	0.9655	0.9655
3:00:00 PM	0.987607373	128.27	134.81	141.69	151.91	187.21	55	0.02093195	0.020931948	0.020257377	0.019006652	0.00077415	0.000813639	0.000844219	0.000976172	0.9977	0.9977	0.9977	0.9977
4:00:00 PM	0.987607373	128.56	135.12	142.01	152.25	187.64	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000775898	0.000815476	0.000846125	0.000978376	1.0000	1.0000	1.0000	1.0000
5:00:00 PM	0.987607373	125.99	132.42	139.18	149.22	183.89	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000760414	0.000799203	0.00082924	0.000958851	0.9800	0.9800	0.9800	0.9800
6:00:00 PM	0.987607373	113.57	119.36	125.45	134.50	165.76	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000685434	0.000720398	0.000747474	0.000864305	0.8834	0.8834	0.8834	0.8834
7:00:00 PM	0.987607373	93.11	97.86	102.85	110.27	135.90	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000561958	0.000590624	0.000612822	0.000708607	0.7243	0.7243	0.7243	0.7243
8:00:00 PM	0.987607373	77.83	81.80	85.97	92.17	113.59	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000469714	0.000493674	0.000512228	0.000592291	0.6054	0.6054	0.6054	0.6054
9:00:00 PM	0.987607373	63.94	67.20	70.63	75.72	93.32	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000385896	0.000405581	0.000420824	0.000486599	0.4974	0.4974	0.4974	0.4974
10:00:00 PM	0.987607373	46.81	49.20	51.71	55.44	68.32	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000282504	0.000296915	0.000308074	0.000356227	0.3641	0.3641	0.3641	0.3641
11:00:00 PM	0.987607373	25.95	27.27	28.66	30.73	37.87	55	0.02093195	0.020931948	0.020257377	0.019006652	0.000156604	0.000164593	0.000170779	0.000197472	0.2018	0.2018	0.2018	0.2018
											MAX:	**0.000775898**	**0.000815476**	**0.000846125**	**0.000978376**				

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: Marin
Calendar Year: 2029, 2031, 2045
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed, kWh/mile for Energy Consumption, gallon/mile for Fuel Consumption. PHEV calculated based on total VMT.

Region	Calendar Yı	Vehicle Cat	Model Yeaı	Speed	Fuel	PM10_RUNEX
Marin	2029	HHDT	Aggregate	55	Diesel	0.020932
Marin	2031	HHDT	Aggregate	55	Diesel	0.020257
Marin	2045	HHDT	Aggregate	55	Diesel	0.019007

Wood Hollow Residences Freeway

Freeway Modeling Assumptions

AERMOD Sources

Line Volume		
Onroad Truck Exhaust		
Vehicle Height	13.1	ft
Plume Height	6.8	m
Plume Width	Varies	m
Release Height	3.4	m
Emissions rate	1	g/s

SBCAPCD Modeling Guidelines for Health Risk Assessments

https://www.ourair.org/wp-content/uploads/apcd-15i.pdf

Meteorology:

Napa County Airport

Wood Hollow Residences Freeway

Health Risk Assessment Risk Factors

Residential Risk	Abbreviation	UOM	3rd Trimester	0<2	2<16	16<30
Daily Breathing Rate	DBR	L/kg-day	361	1090	572	261
Fraction Of Time At Home	FAH	unitless	0.85	0.85	0.72	0.73
Exposure Frequency	EF	days/year	0.96	0.96	0.96	0.96
Age Sensitivity Factor	ASF	unitless	10	10	3	1
Inhalation Absorption Factor	A	unitless	1	1	1	1
Conversion Factor	CF_1	m^3/L	0.001	0.001	0.001	0.001
Conversion Factor	CF_2	$\mu g/m^3$	0.001	0.001	0.001	0.001
Cancer Potency Factor (diesel exhaust)	CPF	$mg/kg\text{-}day^{-1}$	1.1	1.1	1.1	1.1
Averaging Time (for residential exposure)	AT	years	30.00	30.00	30.00	30.00

Wood Hollow Residences Freeway

Health Risk Assessment Exposure Duration Assumptions for Offroad Equipment

Residential Receptors

		# of Days	90	730	5110	5110
			3rd Tri	0<2	2<16	16<30
2029	US 101 North		90	0	0	0
2029-2031	US 101 North		0	730	0	0
2031-2045	US 101 North		0	0	5110	0
2045-2059	US 101 North		0	0	0	5110
2029	US 101 South		90	0	0	0
2029-2031	US 101 South		0	730	0	0
2031-2045	US 101 South		0	0	5110	0
2045-2059	US 101 South		0	0	0	5110

Intake Factor for Inhalation, IF (m^3/kg-day)

		Equation	3rd Trimester	0<2	2<16	16<30
2029	US 101 North		0.024184087	0	0	0
2029-2031	US 101 North	$\frac{DBR \cdot FAH \cdot EF \cdot ED \cdot ASF \cdot A \cdot CF_1}{AT}$	0	0.592283105	0	0
2031-2045	US 101 North		0	0	0.55351296	0
2045-2059	US 101 North		0	0	0	0.08535744
2029	US 101 South		0.024184087	0	0	0
2029-2031	US 101 South	$\frac{DBR \cdot FAH \cdot EF \cdot ED \cdot ASF \cdot A \cdot CF_1}{AT}$	0	0.592283105	0	0
2031-2045	US 101 South		0	0	0.55351296	0
2045-2059	US 101 South		0	0	0	0.08535744

Risk Calculation Part 1, R1

Equation	3rd Trimester	0<2	2<16	16<30
$IF \cdot CPF \cdot CF_2$	2.66025E-05	0	0	0
	0	0.000651511	0	0
	0	0	0.00060886	0
	0	0	0	9.3893E-05
$IF \cdot CPF \cdot CF_2$	2.66025E-05	0	0	0
	0	0.000651511	0	0
	0	0	0.00060886	0
	0	0	0	9.3893E-05

Wood Hollow Residences Freeway

Offroad DPM Emissions, Ground Level Concentrations and Health Risk Calculations
Residential Receptors

	Phase	Age Bin	Emissions (g/s)
2029	US 101 North	3rd	0.000925925
2029-2031	US 101 North	0-2	0.000973156
2031-2045	US 101 North	2-16	0.001009731
2045-2059	US 101 North	16-30	0.001167554
2029	US 101 South	3rd	0.000775898
2029-2031	US 101 South	0-2	0.000815476
2031-2045	US 101 South	2-16	0.000846125
2045-2059	US 101 South	16-30	0.000978376

Risk Summary	
Maximum Risk, Uncontrolled	3.606125468
MERV Reduction	50%
Maximum Risk, Controlled	1.80
UTM X	537788
UTM Y	4219767

AERMOD Column Identifier: 4 4 4 4 5 5 5 5

Unique Identifier	X (UTM)	Y (UTM)	US 101 North 3rd	US 101 North 0-2	US 101 North 2-16	US 101 North 16-30	US 101 South 3rd	US 101 South 0-2	US 101 South 2-16	US 101 South 16-30	Risk 3rd Trimester	0<2	2<16	16<30	Total	per million	Maximum GLCs for Chronic Calcs (by age bin) 3rd	0-2	2-16	16-30
5377184219661	537718	4219661	0.00068536	0.000720321	0.000747393	0.000864212	0.001186294	0.001246806	0.001293666	0.001495869	4.97907E-08	1.28161E-06	1.24273E-06	2.21595E-07	2.7957E-06	2.795719929	0.00187165	0.00196713	0.00204106	0.00236008
5377064219667	537706	4219667	0.000660962	0.000694678	0.000720787	0.000833447	0.001140275	0.001198441	0.001243483	0.001437841	4.79174E-08	1.23339E-06	1.19597E-06	2.13258E-07	2.6905E-06	2.69053747	0.00180124	0.00189312	0.00196427	0.00227129
5376934219674	537693	4219674	0.000636231	0.000668685	0.000693817	0.000802262	0.001093744	0.001149536	0.00119274	0.001379168	4.60217E-08	1.18459E-06	1.14866E-06	2.04821E-07	2.5841E-06	2.584092185	0.00172998	0.00181822	0.00188656	0.00218143
5376714219684	537671	4219684	0.000596481	0.000626907	0.000650469	0.000752138	0.001018063	0.001069995	0.001110209	0.001283737	4.29509E-08	1.10555E-06	1.07201E-06	1.91155E-07	2.4117E-06	2.411670967	0.00161454	0.0016969	0.00176068	0.00203588
5376574219690	537657	4219690	0.000574212	0.000603503	0.000626185	0.000724059	0.000977143	0.001026987	0.001065585	0.001232138	4.12699E-08	1.06228E-06	1.03006E-06	1.83674E-07	2.3173E-06	2.317284008	0.00155135	0.00163049	0.00169177	0.0019562
5376454219696	537645	4219696	0.000557185	0.000585607	0.000607616	0.000702587	0.000946037	0.000994294	0.001031664	0.001192915	3.99894E-08	1.02932E-06	9.98099E-07	1.77975E-07	2.2454E-06	2.245386207	0.00150322	0.0015799	0.00163928	0.0018955
5376504219718	537650	4219718	0.000565888	0.000594754	0.000617107	0.000713562	0.000961524	0.001010571	0.001048552	0.001212443	4.0633E-08	1.04589E-06	1.01416E-06	1.80839E-07	2.2815E-06	2.281520124	0.00152741	0.00160533	0.00166566	0.00192601
5376634219712	537663	4219712	0.000585722	0.000615599	0.000638736	0.000738572	0.000998045	0.001048956	0.001088379	0.001258495	4.21321E-08	1.08448E-06	1.05158E-06	1.87511E-07	2.3657E-06	2.365698244	0.00158377	0.00166455	0.00172712	0.00199707
5376754219707	537675	4219707	0.000605592	0.000636483	0.000660405	0.000763627	0.001035203	0.001088009	0.0011289	0.00130535	4.36492E-08	1.12353E-06	1.08944E-06	1.94263E-07	2.4509E-06	2.450882043	0.00164079	0.00172449	0.0017893	0.00206898
5377024219693	537702	4219693	0.000655842	0.000689296	0.000715203	0.00082699	0.001130553	0.001188223	0.001232881	0.001425582	4.75226E-08	1.22323E-06	1.18612E-06	2.11501E-07	2.6684E-06	2.668367187	0.00178639	0.00187752	0.00194808	0.00225257
5377164219687	537716	4219687	0.000684518	0.000719435	0.000746474	0.00086315	0.001185603	0.001246081	0.001292913	0.001494998	4.97499E-08	1.28056E-06	1.24171E-06	2.21414E-07	2.7934E-06	2.793429852	0.00187012	0.00196552	0.00203939	0.00235815
5377274219681	537727	4219681	0.000708083	0.000744202	0.000772172	0.000892864	0.001231552	0.001294373	0.001343021	0.001552937	5.15991E-08	1.32815E-06	1.28787E-06	2.29644E-07	2.8973E-06	2.897263242	0.00193963	0.00203858	0.00211519	0.0024458
5377364219695	537736	4219695	0.000732027	0.000769368	0.000798284	0.000923057	0.001277306	0.001342462	0.001392917	0.001610632	5.34533E-08	1.37588E-06	1.33414E-06	2.37896E-07	3.0014E-06	3.001373947	0.00200933	0.00211183	0.0021912	0.00253369
5377234219701	537723	4219701	0.00070237	0.000738198	0.000765942	0.00088566	0.001219905	0.001282133	0.00133032	0.001538252	5.11373E-08	1.31627E-06	1.27634E-06	2.27589E-07	2.8713E-06	2.871333546	0.00192228	0.00202033	0.00209626	0.00242391
5377104219707	537710	4219707	0.000674286	0.000708682	0.000735317	0.000850248	0.001165802	0.00122527	0.00127132	0.00147003	4.89509E-08	1.25999E-06	1.22177E-06	2.17858E-07	2.7486E-06	2.748569991	0.00184009	0.00193395	0.00200664	0.00232028
5376874219718	537687	4219718	0.000628407	0.000660462	0.000685284	0.000792396	0.001078296	0.0011333	0.001175894	0.001359689	4.54026E-08	1.16866E-06	1.13321E-06	2.02066E-07	2.5493E-06	2.549330132	0.0017067	0.00179376	0.00186118	0.00215208
5376744219724	537674	4219724	0.000604509	0.000635345	0.000659223	0.000762261	0.001033054	0.00108575	0.001126556	0.001302639	4.35632E-08	1.12131E-06	1.0873E-06	1.9388E-07	2.4461E-06	2.446053501	0.00163756	0.00172109	0.00178578	0.0020649
5376624219730	537662	4219730	0.000584564	0.000614383	0.000637474	0.000737112	0.000995624	0.001046411	0.001085739	0.001255443	4.2037E-08	1.08203E-06	1.0492E-06	1.87087E-07	2.3604E-06	2.360353417	0.00158019	0.00166079	0.00172321	0.00199255
5376494219737	537649	4219737	0.000563972	0.00059274	0.000615017	0.000711146	0.000957993	0.001006861	0.001044702	0.001207991	4.04881E-08	1.04216E-06	1.01054E-06	1.80194E-07	2.2734E-06	2.273383851	0.00152196	0.0015996	0.00165972	0.00191914
5376464219766	537646	4219766	0.000556573	0.000584964	0.00060695	0.000701817	0.000944338	0.000992508	0.001029811	0.001190772	3.9928E-08	1.02774E-06	9.96565E-07	1.77701E-07	2.2419E-06	2.241935234	0.00150091	0.00157747	0.00163676	0.00189259
5376594219755	537659	4219755	0.000578675	0.000608194	0.000631052	0.000729686	0.000984568	0.001034791	0.001073682	0.001241501	4.15862E-08	1.07042E-06	1.03795E-06	1.85081E-07	2.335E-06	2.335041756	0.00156324	0.00164298	0.00170473	0.00197119
5376714219749	537671	4219749	0.000598962	0.000629515	0.000653175	0.000755268	0.001022463	0.001074619	0.001115007	0.001289285	4.3134E-08	1.11026E-06	1.07658E-06	1.9197E-07	2.4219E-06	2.421948959	0.00162143	0.00170413	0.00176818	0.00204455
5376844219743	537684	4219743	0.000622175	0.000653912	0.000678489	0.000784538	0.001066852	0.001121272	0.001163414	0.001345257	4.49323E-08	1.15655E-06	1.12147E-06	1.99973E-07	2.5229E-06	2.52292725	0.00168903	0.00177518	0.0018419	0.0021298
5376964219736	537696	4219736	0.000645147	0.000678056	0.00070354	0.000813505	0.001110954	0.001167624	0.001211507	0.001400868	4.67167E-08	1.20248E-06	1.166E-06	2.07915E-07	2.6231E-06	2.623117124	0.0017561	0.00184568	0.00191505	0.00221437
5377184219726	537718	4219726	0.000691323	0.000726588	0.000753896	0.000871731	0.001199872	0.001261077	0.001308473	0.00151299	5.03105E-08	1.29499E-06	1.2557E-06	2.23909E-07	2.8249E-06	2.824908892	0.0018912	0.00198767	0.00206237	0.00238472
5377314219720	537731	4219720	0.000721444	0.000758245	0.000786742	0.000909712	0.001257777	0.001321936	0.00137162	0.001586007	5.26522E-08	1.35526E-06	1.31415E-06	2.34331E-07	2.9564E-06	2.956394159	0.00197922	0.00208018	0.00215836	0.00249572
5377444219713	537744	4219713	0.000753833	0.000792286	0.000822063	0.000950553	0.001319973	0.001387305	0.001439445	0.001664433	5.51684E-08	1.42003E-06	1.37695E-06	2.45529E-07	3.0977E-06	3.097677057	0.00207381	0.00217959	0.00226151	0.00261499
5377584219740	537758	4219740	0.000786147	0.000826249	0.000857302	0.0009913	0.001387484	0.001458259	0.001513066	0.001749562	5.7824E-08	1.48838E-06	1.44323E-06	2.57348E-07	3.2468E-06	3.246788262	0.00217363	0.00228451	0.00237037	0.00274086
5377434219746	537743	4219746	0.000741147	0.000778953	0.000808229	0.000934557	0.001301437	0.001367823	0.001419231	0.00164106	5.43378E-08	1.39865E-06	1.35622E-06	2.41833E-07	3.051E-06	3.051041185	0.00204258	0.00214678	0.00222746	0.00257562
5377324219752	537732	4219752	0.000714138	0.000750566	0.000778776	0.0009005	0.001247939	0.001311596	0.001360891	0.001573601	5.21961E-08	1.34352E-06	1.30277E-06	2.32301E-07	2.9308E-06	2.930785988	0.00196208	0.00206216	0.00213967	0.0024741
5377074219764	537707	4219764	0.00065812	0.00069169	0.000717687	0.000829863	0.001138917	0.001197013	0.001242002	0.001436129	4.78057E-08	1.23051E-06	1.19318E-06	2.12761E-07	2.6843E-06	2.684263248	0.00179704	0.0018887	0.00195969	0.00226599
5376944219769	537694	4219769	0.000634916	0.000667303	0.000692383	0.000800604	0.001092736	0.001148476	0.00119164	0.001377896	4.59598E-08	1.183E-06	1.14711E-06	2.04546E-07	2.5806E-06	2.580621564	0.00172765	0.00181578	0.00188402	0.0021785
5376824219776	537682	4219776	0.000613823	0.000645135	0.000669381	0.000774007	0.001051559	0.001105199	0.001146737	0.001325974	4.43033E-08	1.14036E-06	1.10577E-06	1.97174E-07	2.4876E-06	2.487608642	0.00166538	0.00175033	0.00181612	0.00209998
5376674219786	537667	4219786	0.000586814	0.000616748	0.000639927	0.000739949	0.001000435	0.001051467	0.001090985	0.001261508	4.22248E-08	1.08686E-06	1.05389E-06	1.87923E-07	2.3709E-06	2.370899897	0.00158725	0.00166821	0.00173091	0.00200146
5376724219798	537672	4219798	0.000590685	0.000620815	0.000644148	0.00074483	0.001008667	0.001060119	0.001099963	0.001271889	4.25467E-08	1.09515E-06	1.06193E-06	1.89356E-07	2.389E-06	2.388977811	0.00159935	0.00168093	0.00174411	0.00201672
5376904219794	537690	4219794	0.000620416	0.000652063	0.00067657	0.00078232	0.00106596	0.001120334	0.001162441	0.001344132	4.48618E-08	1.15474E-06	1.11971E-06	1.99659E-07	2.519E-06	2.518966602	0.00168638	0.0017724	0.00183901	0.00212645
5377044219789	537704	4219789	0.000646286	0.000679253	0.000704782	0.000814941	0.001115609	0.001172517	0.001216584	0.001406739	4.68708E-08	1.20645E-06	1.16985E-06	2.08601E-07	2.6318E-06	2.631772127	0.0017619	0.00185177	0.00192137	0.00222168
5377174219782	537717	4219782	0.000674073	0.000708458	0.000735084	0.00084998	0.001169294	0.001228939	0.001275128	0.001474432	4.90382E-08	1.26224E-06	1.22395E-06	2.18246E-07	2.7535E-06	2.753467255	0.00184337	0.0019374	0.00201021	0.00232441
5377414219771	537741	4219771	0.000730592	0.000767859	0.000796718	0.000921247	0.001279789	0.001345071	0.001395624	0.001613763	5.34812E-08	1.3766E-06	1.33484E-06	2.3802E-07	3.0029E-06	3.002938898	0.00201038	0.00211293	0.00219234	0.00253501
5377554219765	537755	4219765	0.000767768	0.000806932	0.000837259	0.000968124	0.001353818	0.001422876	0.001476353	0.00170711	5.64395E-08	1.45275E-06	1.40868E-06	2.51186E-07	3.169E-06	3.169046575	0.00212159	0.00222981	0.00231361	0.00267523
5377664219758	537766	4219758	0.000799805	0.000840603	0.000872196	0.001008522	0.001417783	0.001490104	0.001546108	0.001787767	5.89934E-08	1.51848E-06	1.47242E-06	2.62552E-07	3.3124E-06	3.312446361	0.00221759	0.00233071	0.0024183	0.00279629
5377884219767	537788	4219767	0.000865008	0.000909132	0.000943301	0.001090741	0.001549189	0.001628213	0.001689407	0.001953465	6.42237E-08	1.65311E-06	1.60296E-06	2.8583E-07	3.6061E-06	3.606125468	0.0024142	0.00253735	0.00263271	0.00304421
5377764219772	537776	4219772	0.000825749	0.000867871	0.000900489	0.001041237	0.001469589	0.001544553	0.001602603	0.001853093	6.10617E-08	1.57172E-06	1.52404E-06	2.71758E-07	3.4286E-06	3.428584471	0.00229534	0.00241242	0.00250309	0.00289433
5377634219779	537763	4219779	0.000786184	0.000826288	0.000857343	0.000991347	0.001390168	0.001461081	0.001515994	0.001752947	5.78964E-08	1.49025E-06	1.44504E-06	2.5767E-07	3.2509E-06	3.250853625	0.00217635	0.00228737	0.00237334	0.00274429
5377524219786	537752	4219786	0.000755018	0.000793531	0.000823355	0.000952047	0.001328128	0.001395876	0.001448338	0.001674716	5.54169E-08	1.42642E-06	1.38315E-06	2.46635E-07	3.1116E-06	3.111628173	0.00208315	0.00218941	0.00227169	0.00262676
5377224219798	537722	4219798	0.00068149	0.000716253	0.000743172	0.000859332	0.001183919	0.001244311	0.001291077	0.001492875	4.96245E-08	1.27733E-06	1.23858E-06	2.20856E-07	2.7864E-06	2.786392248	0.00186541	0.00196056	0.00203425	0.00235221
5377094219804	537709	4219804	0.000652953	0.00068626	0.000712052	0.000823348	0.001128249	0.001185801	0.001230368	0.001422676	4.73844E-08	1.21967E-06	1.18267E-06	2.10886E-07	2.6606E-06	2.660609867	0.0017812	0.00187206	0.00194242	0.00224602
5376974219810	537697	4219810	0.000628722	0.000660793	0.000685628	0.000792793	0.001081656	0.001136831	0.001179558	0.001363925	4.55003E-08	1.17117E-06	1.13564E-06	2.02501E-07	2.5548E-06	2.554818721	0.00171038	0.00179762	0.00186519	0.00215672
5376784219811	537678	4219811	0.00059536	0.00062573	0.000649247	0.000750726	0.001018459	0.001070411	0.001110641	0.001284236	4.29316E-08	1.10505E-06	1.07153E-06	1.91069E-07	2.4106E-06	2.410588528	0.00161382	0.00169614	0.00175989	0.00203496
5377774219797	537777	4219797	0.000799786	0.000840583	0.000872176	0.001008498	0.001425355	0.001498063	0.001554366	0.001797316	5.91943E-08	1.52365E-06	1.47743E-06	2.63447E-07	3.3237E-06	3.323730259	0.00222514	0.00233865	0.00242654	0.00280581
5377654219803	537765	4219803	0.000766045	0.000805122	0.000835381	0.000965953	0.001356626	0.001425828	0.001479416	0.001710652	5.64684E-08	1.45349E-06	1.4094E-06	2.51315E-07	3.1707E-06	3.170669542	0.00212267	0.00223095	0.0023148	0.0026766
5377524219809	537752	4219809	0.000730981	0.000768268	0.000797143	0.000921737	0.001286927	0.001352574	0.001403409	0.001622764	5.36814E-08	1.38175E-06	1.33984E-06	2.38911E-07	3.0142E-06	3.014182323	0.00201791	0.00212084	0.00220055	0.0025445
5377324219818	537732	4219818	0.000681194	0.000715941	0.000742849	0.000858958	0.001188986	0.001249636	0.001296602	0.001499264	4.97514E-08	1.2806E-06	1.24175E-06	2.21421E-07	2.7935E-06	2.793517749	0.00187018	0.00196558	0.00203945	0.00235822
5377194219825	537719	4219825	0.000657981	0.000691544	0.000717535	0.000829687	0.001141152	0.001199362	0.001244439	0.001438947	4.78614E-08	1.23195E-06	1.19458E-06	2.13009E-07	2.6874E-06	2.687393625	0.00179913	0.00189091	0.00196197	0.00226863
5377064219830	537706	4219830	0.000635046	0.000667439	0.000692524	0.000800767	0.001095389	0.001151265	0.001194534	0.001381242	4.60339E-08	1.18491E-06	1.14896E-06	2.04876E-07	2.5848E-06	2.584778875	0.00173043	0.0018187	0.00188706	0.00218201
5376944219836	537694	4219836	0.00061161	0.000642809	0.000666968	0.000771216	0.00105038	0.001103959	0.00114545	0.001324487	4.42131E-08	1.13804E-06	1.10352E-06	1.96772E-07	2.4825E-06	2.482541471	0.00166199	0.00174677	0.00181242	0.0020957
5376764219841	537676	4219841	0.00057761	0.000607074	0.000629891	0.000728344	0.000986826	0.001037164	0.001076144	0.001244348	4.16179E-08	1.07124E-06	1.03874E-06	1.85222E-07	2.3368E-06	2.336823833	0.00156444	0.00164424	0.00170603	0.00197269
5376634219848	537663	4219848	0.000556712	0.00058511	0.000607101	0.000701992	0.000947123	0.000995436	0.001032848	0.001194284	4.00058E-08	1.02974E-06	9.98506E-07	1.78047E-07	2.2463E-06	2.246303401	0.00150384	0.00158055	0.00163995	0.00189628
5376514219853	537651	4219853	0.000537666	0.000565092	0.000586331	0.000677975	0.000911509	0.000958005	0.000994011	0.001149377	3.85517E-08	9.92316E-07	9.62214E-07	1.71576E-07	2.1647E-06	2.164656887	0.00144918	0.0015231	0.00158034	0.00182735
5376374219859	537637	4219859	0.000517055	0.00054343	0.000563854	0.000651986	0.000873056	0.00091759	0.000952077	0.001100888	3.69804E-08	9.51871E-07	9.22996E-07	1.64583E-07	2.0764E-06	2.07643115	0.00139011	0.00146102	0.00151593	0.00175287
5376214219856	537621	4219856	0.000495333	0.0005206	0.000540166	0.000624595	0.000833291	0.000875797	0.000908713	0.001050747	3.53447E-08	9.09769E-07	8.82171E-07	1.57303E-07	1.9846E-06	1.98458707	0.00132862	0.0013964	0.00144888	0.00167534
5376284219834	537628	4219834	0.000513564	0.000539761	0.000560047	0.000647584	0.00086539	0.000909534	0.000943717	0.001091222	3.66836E-08	9.44232E-07	9.15589E-07	1.63262E-07	2.0598E-06	2.059766343	0.00137895	0.00144929	0.00150376	0.00173881
5376454219830	537645	4219830	0.000539194	0.000566698	0.000587997	0.000679902	0.000912712	0.000959269	0.000995322	0.001150893	3.86243E-08	9.94185E-07	9.64027E-07	1.71899E-07	2.1687E-06	2.168735356	0.00145191	0.00152597	0.00158332	0.0018308
5376594219825	537659	4219825	0.000560805	0.000589412	0.000611564	0.000707153	0.000953136	0.001001756	0.001039406	0.001201867	4.02746E-08	1.03666E-06	1.00522E-06	1.79244E-07	2.2614E-06	2.261398595	0.00151394	0.00159117	0.00165097	0.00190902
5376494219811	537649	4219811	0.000551249	0.000579369	0.000601144	0.000695103	0.000934972	0.000982665	0.001019598	0.001178963	3.95372E-08	1.01768E-06	9.86811E-07	1.75962E-07	2.22E-06	2.219993803	0.00148622	0.00156203	0.00162074	0.00187407

5376354219817	537635	4219817	0.000528601	0.000555565	0.000576446	0.000666545	0.000892849	0.000938393	0.000973662	0.001125847	3.78141E-08	9.73331E-07	9.43805E-07	1.68293E-07	2.1232E-06	2.12324338	5376354219817	537635	4219817	0.00142145	0.00149396	0.00155011	0.00179239

GLC_HRA

Wood Hollow Residences Freeway

Maximum Individual Non-Cancer Impact Calculations - Sensitive Receptors (Maximum Impacted Senior Residential Receptor) (IMPACT AT ALL OTHER LOCATIONS ON THE PROJECT SITE WOULD BE LESS THAN SHOWN)

Maximum Non-cancer Chronic Hazards / Toxicological Endpoints*

Receptor Group	Pollutant	CREL[1]	CONC	WFrac	$CONC_{WF}$	HI		ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK
Project:																				
MEI - Max	DPM	5.00E+00	3.04E-03	1.00E+00	3.04E-03	0.001		-	-	-	-	-	-	-	-	-	-	-	6.09E-04	-
							Total Risk				-			-				-	0.001	
							Threshold				1.00			1.00				1.00	1.00	
							Over?				NO			NO				NO	NO	

Notes:

1. California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values," "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," "OEHHA/ARB Approved Acute Reference Exposure Levels and Target Organs," and "OEHHA/ARB Approved 8-Hour Reference Exposure Levels and Target Organs," http://www.arb.ca.gov/toxics/healthval/healthval.htm. Tables last updated: May 8, 2018. Downloaded: 08/14/18.

Source: ESA, 2020

Where:

$CONC_{WF}$	Pollutant Concentration ($\mu g/m^3$) multiplied by the weight fraction
CREL	Chronic Reference Exposure Level
HI	Hazard Index
MEI	Maximally Exposed Individual
WFrac	Weight fraction of speciated component

* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

Chronic HI

XY	X	Y	US 101 N	US 101 S
5377184219661	537718	4219661	0.74019	1.52893
5377064219667	537706	4219667	0.71384	1.46962
5376934219674	537693	4219674	0.68713	1.40965
5376714219684	537671	4219684	0.6442	1.31211
5376574219690	537657	4219690	0.62015	1.25937
5376454219696	537645	4219696	0.60176	1.21928
5376504219718	537650	4219718	0.61116	1.23924
5376634219712	537663	4219712	0.63258	1.28631
5376754219707	537675	4219707	0.65404	1.3342
5377024219693	537702	4219693	0.70831	1.45709
5377164219687	537716	4219687	0.73928	1.52804
5377274219681	537727	4219681	0.76473	1.58726
5377364219695	537736	4219695	0.79059	1.64623
5377234219701	537723	4219701	0.75856	1.57225
5377104219707	537710	4219707	0.72823	1.50252
5376874219718	537687	4219718	0.67868	1.38974
5376744219724	537674	4219724	0.65287	1.33143
5376624219730	537662	4219730	0.63133	1.28319
5376494219737	537649	4219737	0.60909	1.23469
5376464219766	537646	4219766	0.6011	1.21709
5376594219755	537659	4219755	0.62497	1.26894
5376714219749	537671	4219749	0.64688	1.31778
5376844219743	537684	4219743	0.67195	1.37499
5376964219736	537696	4219736	0.69676	1.43183
5377184219726	537718	4219726	0.74663	1.54643
5377314219720	537731	4219720	0.77916	1.62106
5377444219713	537744	4219713	0.81414	1.70122
5377584219740	537758	4219740	0.84904	1.78823
5377434219746	537743	4219746	0.80044	1.67733
5377324219752	537732	4219752	0.77127	1.60838
5377074219764	537707	4219764	0.71077	1.46787
5376944219769	537694	4219769	0.68571	1.40835
5376824219776	537682	4219776	0.66293	1.35528
5376674219786	537667	4219786	0.63376	1.28939
5376724219798	537672	4219798	0.63794	1.3
5376904219794	537690	4219794	0.67005	1.37384
5377044219789	537704	4219789	0.69799	1.43783
5377174219782	537717	4219782	0.728	1.50702
5377414219771	537741	4219771	0.78904	1.64943
5377554219765	537755	4219765	0.82919	1.74484
5377664219758	537766	4219758	0.86379	1.82728
5377884219767	537788	4219767	0.93421	1.99664
5377764219772	537776	4219772	0.89181	1.89405
5377634219779	537763	4219779	0.84908	1.79169
5377524219786	537752	4219786	0.81542	1.71173
5377224219798	537722	4219798	0.73601	1.52587

5377094219804	537709	4219804	0.70519	1.45412
5376974219810	537697	4219810	0.67902	1.39407
5376784219811	537678	4219811	0.64299	1.31262
5377774219797	537777	4219797	0.86377	1.83704
5377654219803	537765	4219803	0.82733	1.74846
5377524219809	537752	4219809	0.78946	1.65863
5377324219818	537732	4219818	0.73569	1.5324
5377194219825	537719	4219825	0.71062	1.47075
5377064219830	537706	4219830	0.68585	1.41177
5376944219836	537694	4219836	0.66054	1.35376
5376764219841	537676	4219841	0.62382	1.27185
5376634219848	537663	4219848	0.60125	1.22068
5376514219853	537651	4219853	0.58068	1.17478
5376374219859	537637	4219859	0.55842	1.12522
5376214219856	537621	4219856	0.53496	1.07397
5376284219834	537628	4219834	0.55465	1.11534
5376454219830	537645	4219830	0.58233	1.17633
5376594219825	537659	4219825	0.60567	1.22843
5376494219811	537649	4219811	0.59535	1.20502
5376354219817	537635	4219817	0.57089	1.15073

Receptor Locations

XY	X	Y
5377184219661	537718	4219661
5377064219667	537706	4219667
5376934219674	537693	4219674
5376714219684	537671	4219684
5376574219690	537657	4219690
5376454219696	537645	4219696
5376504219718	537650	4219718
5376634219712	537663	4219712
5376754219707	537675	4219707
5377024219693	537702	4219693
5377164219687	537716	4219687
5377274219681	537727	4219681
5377364219695	537736	4219695
5377234219701	537723	4219701
5377104219707	537710	4219707
5376874219718	537687	4219718
5376744219724	537674	4219724
5376624219730	537662	4219730
5376494219737	537649	4219737
5376464219766	537646	4219766
5376594219755	537659	4219755
5376714219749	537671	4219749
5376844219743	537684	4219743
5376964219736	537696	4219736
5377184219726	537718	4219726
5377314219720	537731	4219720
5377444219713	537744	4219713
5377584219740	537758	4219740
5377434219746	537743	4219746
5377324219752	537732	4219752
5377074219764	537707	4219764
5376944219769	537694	4219769
5376824219776	537682	4219776
5376674219786	537667	4219786
5376724219798	537672	4219798
5376904219794	537690	4219794
5377044219789	537704	4219789
5377174219782	537717	4219782
5377414219771	537741	4219771
5377554219765	537755	4219765
5377664219758	537766	4219758
5377884219767	537788	4219767
5377764219772	537776	4219772
5377634219779	537763	4219779
5377524219786	537752	4219786

5377224219798	537722	4219798
5377094219804	537709	4219804
5376974219810	537697	4219810
5376784219811	537678	4219811
5377774219797	537777	4219797
5377654219803	537765	4219803
5377524219809	537752	4219809
5377324219818	537732	4219818
5377194219825	537719	4219825
5377064219830	537706	4219830
5376944219836	537694	4219836
5376764219841	537676	4219841
5376634219848	537663	4219848
5376514219853	537651	4219853
5376374219859	537637	4219859
5376214219856	537621	4219856
5376284219834	537628	4219834
5376454219830	537645	4219830
5376594219825	537659	4219825
5376494219811	537649	4219811
5376354219817	537635	4219817

Receptors

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** Lakes Environmental AERMOD MPI
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** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 2/3/2025
** File: C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Residences_Operations.ADI
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****************************************
** AERMOD Control Pathway
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**
CO STARTING
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  TITLETWO Wood Hollow Residences Operations
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 51140 Novato
  POLLUTID OPS
  FLAGPOLE 0.00
  RUNORNOT RUN
  ERRORFIL "Wood Hollow Residences_Operations.err"
CO FINISHED
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** AERMOD Source Pathway
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SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** Line Source Represented by Separated Volume Sources (2W)
** LINE VOLUME Source ID = US101S
** DESCRSRC U.S. 101 South
** PREFIX 101S
** Length of Side = 12.00
** Configuration = Separated 2W
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 30
** 538213.033, 4220479.630, 3.49, 3.40, 11.16
** 538207.667, 4220433.122, 3.56, 3.40, 11.16
** 538203.493, 4220405.694, 3.73, 3.40, 11.16
** 538195.146, 4220365.745, 3.78, 3.40, 11.16
** 538187.394, 4220331.162, 3.88, 3.40, 11.16
** 538174.873, 4220284.058, 4.10, 3.40, 11.16
** 538163.544, 4220248.879, 4.24, 3.40, 11.16
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** 538152.215, 4220211.911, 4.45, 3.40, 11.16
** 538132.539, 4220156.459, 4.86, 3.40, 11.16
** 538103.322, 4220081.928, 5.75, 3.40, 11.16
** 538089.012, 4220041.978, 6.25, 3.40, 11.16
** 538074.106, 4220003.818, 7.08, 3.40, 11.16
** 538065.758, 4219977.583, 7.50, 3.40, 11.16
** 538061.584, 4219965.061, 7.66, 3.40, 11.16
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** 538028.790, 4219811.227, 10.22, 3.40, 11.16
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** 538020.443, 4219691.976, 11.69, 3.40, 11.16
** 538022.231, 4219653.220, 12.13, 3.40, 11.16
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** 538034.156, 4219536.950, 12.51, 3.40, 11.16
** 538041.312, 4219482.690, 11.85, 3.40, 11.16
** 538047.274, 4219428.431, 5.62, 3.40, 11.16
** 538057.410, 4219338.993, 7.14, 3.40, 11.16
** 538070.528, 4219240.014, 10.43, 3.40, 11.16
** 538080.664, 4219165.482, 9.04, 3.40, 11.16
** 538103.918, 4218987.798, 5.64, 3.40, 11.16
** 538111.670, 4218923.402, 4.49, 3.40, 11.16
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  LOCATION 101S0004    VOLUME   538202.790 4220402.327 3.72
  LOCATION 101S0005    VOLUME   538197.881 4220378.835 3.76
  LOCATION 101S0006    VOLUME   538192.821 4220355.375 3.84
  LOCATION 101S0007    VOLUME   538187.572 4220331.956 3.91
  LOCATION 101S0008    VOLUME   538181.437 4220308.754 3.98
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  LOCATION 101S0010    VOLUME   538167.992 4220262.692 4.10
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  LOCATION 101S0012    VOLUME   538153.732 4220216.860 4.39
  LOCATION 101S0013    VOLUME   538145.920 4220194.171 4.56
  LOCATION 101S0014    VOLUME   538137.894 4220171.553 4.77
  LOCATION 101S0015    VOLUME   538129.625 4220149.026 4.99
  LOCATION 101S0016    VOLUME   538120.865 4220126.681 5.25
  LOCATION 101S0017    VOLUME   538112.106 4220104.336 5.51
  LOCATION 101S0018    VOLUME   538103.347 4220081.992 5.80
  LOCATION 101S0019    VOLUME   538095.252 4220059.398 6.12
  LOCATION 101S0020    VOLUME   538087.012 4220036.859 6.46
  LOCATION 101S0021    VOLUME   538078.280 4220014.504 6.82
  LOCATION 101S0022    VOLUME   538070.307 4219991.880 7.20
  LOCATION 101S0023    VOLUME   538062.913 4219969.048 7.59
  LOCATION 101S0024    VOLUME   538056.054 4219946.052 8.00
  LOCATION 101S0025    VOLUME   538049.705 4219922.911 8.43
  LOCATION 101S0026    VOLUME   538044.046 4219899.591 8.76
  LOCATION 101S0027    VOLUME   538039.163 4219876.093 9.11
  LOCATION 101S0028    VOLUME   538034.616 4219852.536 9.51
  LOCATION 101S0029    VOLUME   538031.264 4219828.771 9.84
  LOCATION 101S0030    VOLUME   538028.185 4219804.974 10.22
  LOCATION 101S0031    VOLUME   538025.873 4219781.086 10.56
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  LOCATION 101S0036    VOLUME   538021.858 4219661.306 12.11
  LOCATION 101S0037    VOLUME   538023.624 4219637.376 12.31
  LOCATION 101S0038    VOLUME   538025.726 4219613.468 12.49
  LOCATION 101S0039    VOLUME   538028.083 4219589.586 12.53
  LOCATION 101S0040    VOLUME   538030.834 4219565.745 12.58
  LOCATION 101S0041    VOLUME   538033.585 4219541.903 12.58
  LOCATION 101S0042    VOLUME   538036.642 4219518.099 12.57
  LOCATION 101S0043    VOLUME   538039.780 4219494.305 12.49
  LOCATION 101S0044    VOLUME   538042.653 4219470.479 11.24
  LOCATION 101S0045    VOLUME   538045.275 4219446.622 7.33
  LOCATION 101S0046    VOLUME   538047.916 4219422.768 4.27
  LOCATION 101S0047    VOLUME   538050.619 4219398.921 3.33
  LOCATION 101S0048    VOLUME   538053.321 4219375.074 3.79
  LOCATION 101S0049    VOLUME   538056.024 4219351.226 6.42
  LOCATION 101S0050    VOLUME   538058.946 4219327.406 9.61
  LOCATION 101S0051    VOLUME   538062.099 4219303.614 11.19
  LOCATION 101S0052    VOLUME   538065.252 4219279.822 10.93
  LOCATION 101S0053    VOLUME   538068.405 4219256.030 10.64
  LOCATION 101S0054    VOLUME   538071.585 4219232.242 10.29
  LOCATION 101S0055    VOLUME   538074.819 4219208.460 9.89
  LOCATION 101S0056    VOLUME   538078.054 4219184.679 9.49
  LOCATION 101S0057    VOLUME   538081.265 4219160.895 9.03
  LOCATION 101S0058    VOLUME   538084.379 4219137.098 8.56
  LOCATION 101S0059    VOLUME   538087.493 4219113.301 8.07
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  LOCATION 101S0063    VOLUME   538099.951 4219018.113 6.23
  LOCATION 101S0064    VOLUME   538103.065 4218994.316 5.72
  LOCATION 101S0065    VOLUME   538106.001 4218970.496 5.35
  LOCATION 101S0066    VOLUME   538108.869 4218946.668 4.87
** End of LINE VOLUME Source ID = US101S
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** Line Source Represented by Separated Volume Sources (2W)
** LINE VOLUME Source ID = US101N
** DESCRSRC U.S. 101 North
** PREFIX 101N
** Length of Side = 15.00
** Configuration = Separated 2W
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 16
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** 538227.851, 4220389.763, 4.19, 3.40, 13.95
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** 538201.187, 4220272.052, 4.61, 3.40, 13.95
** 538119.895, 4220043.132, 5.93, 3.40, 13.95
** 538098.433, 4219984.602, 6.64, 3.40, 13.95
** 538080.874, 4219934.525, 7.28, 3.40, 13.95
** 538062.014, 4219849.331, 8.65, 3.40, 13.95
** 538050.308, 4219766.088, 9.92, 3.40, 13.95
** 538048.357, 4219703.655, 10.89, 3.40, 13.95
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** 538127.699, 4219009.092, 6.03, 3.40, 13.95
** 538136.804, 4218943.408, 4.83, 3.40, 13.95
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  LOCATION 101N0069    VOLUME   538230.154 4220407.377 4.17
  LOCATION 101N0070    VOLUME   538225.145 4220377.830 4.27
  LOCATION 101N0071    VOLUME   538218.509 4220348.573 4.35
  LOCATION 101N0072    VOLUME   538211.878 4220319.315 4.44
  LOCATION 101N0073    VOLUME   538205.259 4220290.055 4.56
  LOCATION 101N0074    VOLUME   538197.325 4220261.175 4.67
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  LOCATION 101N0077    VOLUME   538167.207 4220176.364 4.93
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  LOCATION 101N0080    VOLUME   538137.089 4220091.553 5.50
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  LOCATION 101N0082    VOLUME   538116.928 4220035.042 6.01
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  LOCATION 101N0097    VOLUME   538055.613 4219594.480 12.20
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  LOCATION 101N0099    VOLUME   538063.374 4219534.984 9.28
  LOCATION 101N0100    VOLUME   538067.254 4219505.236 4.65
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  LOCATION 101N0102    VOLUME   538074.246 4219445.648 3.93
  LOCATION 101N0103    VOLUME   538077.471 4219415.822 8.65
  LOCATION 101N0104    VOLUME   538080.695 4219385.996 11.70
  LOCATION 101N0105    VOLUME   538083.920 4219356.170 11.87
  LOCATION 101N0106    VOLUME   538087.144 4219326.344 11.46
  LOCATION 101N0107    VOLUME   538090.368 4219296.517 11.13
  LOCATION 101N0108    VOLUME   538094.017 4219266.741 10.78
  LOCATION 101N0109    VOLUME   538097.831 4219236.985 10.40
  LOCATION 101N0110    VOLUME   538101.646 4219207.228 9.92
  LOCATION 101N0111    VOLUME   538105.461 4219177.472 9.36
  LOCATION 101N0112    VOLUME   538109.276 4219147.715 8.79
  LOCATION 101N0113    VOLUME   538113.091 4219117.959 8.18
  LOCATION 101N0114    VOLUME   538116.906 4219088.202 7.62
  LOCATION 101N0115    VOLUME   538120.738 4219058.448 7.06
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  LOCATION 101N0117    VOLUME   538129.093 4218999.033 5.82
  LOCATION 101N0118    VOLUME   538133.212 4218969.317 5.19
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** Source Parameters **
** LINE VOLUME Source ID = US101S
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  SRCPARAM 101S0002    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0003    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0004    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0005    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0006    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0007    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0008    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0009    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0010    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0011    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0012    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0013    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0014    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0015    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0016    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0017    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0018    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0019    0.0151515152    3.40    11.16    3.16
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  SRCPARAM 101S0026    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0027    0.0151515152    3.40    11.16    3.16
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  SRCPARAM 101S0031    0.0151515152    3.40    11.16    3.16
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  SRCPARAM 101S0033    0.0151515152    3.40    11.16    3.16
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  SRCPARAM 101S0036    0.0151515152    3.40    11.16    3.16
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  SRCPARAM 101S0039    0.0151515152    3.40    11.16    3.16
  SRCPARAM 101S0040    0.0151515152    3.40    11.16    3.16
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  SRCPARAM 101S0050    0.0151515152    3.40    11.16    3.16
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  SRCPARAM 101S0052   0.0151515152   3.40   11.16   3.16
  SRCPARAM 101S0053   0.0151515152   3.40   11.16   3.16
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  SRCPARAM 101S0056   0.0151515152   3.40   11.16   3.16
  SRCPARAM 101S0057   0.0151515152   3.40   11.16   3.16
  SRCPARAM 101S0058   0.0151515152   3.40   11.16   3.16
  SRCPARAM 101S0059   0.0151515152   3.40   11.16   3.16
  SRCPARAM 101S0060   0.0151515152   3.40   11.16   3.16
  SRCPARAM 101S0061   0.0151515152   3.40   11.16   3.16
  SRCPARAM 101S0062   0.0151515152   3.40   11.16   3.16
  SRCPARAM 101S0063   0.0151515152   3.40   11.16   3.16
  SRCPARAM 101S0064   0.0151515152   3.40   11.16   3.16
  SRCPARAM 101S0065   0.0151515152   3.40   11.16   3.16
  SRCPARAM 101S0066   0.0151515152   3.40   11.16   3.16
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** LINE VOLUME Source ID = US101N
  SRCPARAM 101N0067   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0068   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0069   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0070   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0071   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0072   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0073   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0074   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0075   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0076   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0077   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0078   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0079   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0080   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0081   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0082   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0083   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0084   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0085   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0086   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0087   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0088   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0089   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0090   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0091   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0092   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0093   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0094   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0095   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0096   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0097   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0098   0.0192307692   3.40   13.95   3.16
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  SRCPARAM 101N0100   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0101   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0102   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0103   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0104   0.0192307692   3.40   13.95   3.16
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  SRCPARAM 101N0107   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0108   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0109   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0110   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0111   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0112   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0113   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0114   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0115   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0116   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0117   0.0192307692   3.40   13.95   3.16
  SRCPARAM 101N0118   0.0192307692   3.40   13.95   3.16
** ----------------------------------------------------------------------
  URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "US 101 N"
** WeekDays:
  EMISFACT 101N0067   HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0067   HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0067   HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0067   HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0068   HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0068   HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0068   HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0068   HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0069   HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0069   HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0069   HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0069   HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0070   HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0070   HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0070   HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0070   HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0071   HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0071   HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0071   HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0071   HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0072   HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0072   HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0072   HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0072   HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0073   HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0073   HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0073   HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0073   HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0074   HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0074   HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0074   HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0074   HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0075   HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0075   HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0075   HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0075   HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
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EMISFACT 101N0076    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0076    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0076    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0076    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0077    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0077    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0077    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0077    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0078    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0078    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0078    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0078    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0079    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0079    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0079    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0079    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0080    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0080    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0080    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0080    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0081    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0081    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0081    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0081    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0082    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0082    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0082    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0082    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0083    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0083    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0083    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0083    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0084    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0084    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0084    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0084    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0085    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0085    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0085    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0085    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0086    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0086    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0086    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0086    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0087    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0087    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0087    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0087    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0088    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0088    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0088    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0088    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0089    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0089    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0089    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0089    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
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EMISFACT 101N0090    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0090    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0090    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0090    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0091    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0091    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0091    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0091    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0092    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0092    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0092    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0092    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0093    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0093    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0093    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0093    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0094    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0094    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0094    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0094    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0095    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0095    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0095    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0095    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0096    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0096    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0096    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0096    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0097    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0097    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
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EMISFACT 101N0101    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0101    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0102    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0102    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0102    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0102    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0103    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0103    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0103    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0103    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0104    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0104    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0104    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0104    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0105    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0105    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0105    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0105    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0106    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0106    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0106    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0106    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0107    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0107    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0107    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0107    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0108    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0108    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0108    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0108    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0109    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0109    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0109    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0109    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0110    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0110    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
EMISFACT 101N0110    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
EMISFACT 101N0110    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
EMISFACT 101N0111    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
EMISFACT 101N0111    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
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  EMISFACT 101N0111    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0111    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0112    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0112    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0112    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0112    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0113    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0113    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0113    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0113    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0114    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0114    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0114    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0114    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0115    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0115    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0115    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0115    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0116    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0116    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0116    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0116    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0117    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0117    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0117    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0117    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819
  EMISFACT 101N0118    HRDOW 0.1466 0.1143 0.1056 0.0753 0.0588 0.0581
  EMISFACT 101N0118    HRDOW 0.0905 0.1101 0.1117 0.1216 0.1384 0.1539
  EMISFACT 101N0118    HRDOW 0.2039 0.2602 0.4725 0.9324 1.0 0.8323
  EMISFACT 101N0118    HRDOW 0.4123 0.2296 0.1764 0.2022 0.1971 0.1819

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "US 101 S"
** WeekDays:
  EMISFACT 101S0001    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0001    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0001    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0001    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0002    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0002    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0002    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0002    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0003    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0003    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0003    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0003    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0004    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0004    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0004    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0004    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0005    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0005    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0005    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0005    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0006    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0006    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
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EMISFACT 101S0006    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0006    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0007    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0007    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0007    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0007    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0008    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0008    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0008    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0008    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0009    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0009    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0009    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0009    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0010    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0010    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0010    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0010    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0011    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0011    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0011    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0011    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0012    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0012    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0012    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0012    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0013    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0013    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0013    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0013    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0014    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0014    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0014    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0014    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0015    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0015    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0015    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0015    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0016    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0016    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0016    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0016    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0017    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0017    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0017    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0017    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0018    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0018    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0018    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0018    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0019    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0019    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0019    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0019    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0020    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0020    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
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EMISFACT 101S0020    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0020    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0021    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0021    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0021    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0021    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0022    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0022    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0022    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0022    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0023    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0023    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0023    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0023    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0024    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0024    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0024    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0024    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0025    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0025    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0025    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0025    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0026    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0026    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0026    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0026    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0027    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0027    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0027    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0027    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0028    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0028    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0028    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0028    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0029    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0029    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0029    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0029    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0030    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0030    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0030    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0030    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0031    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0031    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0031    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0031    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0032    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0032    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0032    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0032    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0033    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0033    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0033    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0033    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0034    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0034    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
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EMISFACT 101S0034	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0034	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0035	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0035	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0035	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0035	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0036	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0036	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0036	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0036	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0037	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0037	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0037	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0037	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0038	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0038	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0038	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0038	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0039	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0039	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0039	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0039	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0040	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0040	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0040	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0040	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0041	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0041	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0041	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0041	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0042	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0042	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0042	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0042	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0043	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0043	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0043	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0043	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0044	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0044	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0044	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0044	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0045	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0045	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0045	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0045	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0046	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0046	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0046	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0046	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0047	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0047	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0047	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0047	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0048	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0048	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574

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EMISFACT 101S0048    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0048    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0049    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0049    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0049    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0049    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0050    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0050    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0050    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0050    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0051    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0051    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0051    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0051    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0052    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0052    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0052    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0052    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0053    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0053    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0053    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0053    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0054    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0054    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0054    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0054    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0055    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0055    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0055    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0055    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0056    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0056    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0056    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0056    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0057    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0057    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0057    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0057    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0058    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0058    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0058    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0058    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0059    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0059    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0059    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0059    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0060    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0060    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0060    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0060    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0061    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0061    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0061    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0061    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0062    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0062    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
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EMISFACT 101S0062    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0062    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0063    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0063    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0063    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0063    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0064    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0064    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0064    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0064    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0065    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0065    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0065    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0065    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0066    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0066    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0066    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0066    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
** Saturday:
EMISFACT 101S0001    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0001    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0001    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0001    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0002    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0002    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0002    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0002    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0003    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0003    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0003    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0003    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0004    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0004    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0004    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0004    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0005    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0005    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0005    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0005    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0006    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0006    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0006    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0006    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0007    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0007    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0007    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0007    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0008    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0008    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0008    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0008    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0009    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0009    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0009    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0009    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0010    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
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EMISFACT 101S0010	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0010	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0010	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0011	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0011	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0011	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0011	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0012	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0012	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0012	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0012	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0013	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0013	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0013	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0013	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0014	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0014	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0014	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0014	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0015	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0015	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0015	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0015	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0016	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0016	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0016	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0016	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0017	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0017	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0017	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0017	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0018	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0018	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0018	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0018	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0019	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0019	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0019	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0019	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0020	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0020	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0020	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0020	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0021	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0021	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0021	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0021	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0022	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0022	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0022	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0022	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0023	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0023	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0023	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0023	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0024	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213

EMISFACT 101S0024	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0024	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0024	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0025	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0025	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0025	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0025	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0026	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0026	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0026	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0026	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0027	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0027	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0027	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0027	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0028	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0028	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0028	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0028	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0029	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0029	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0029	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0029	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0030	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0030	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0030	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0030	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0031	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0031	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0031	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0031	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0032	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0032	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0032	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0032	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0033	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0033	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0033	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0033	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0034	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0034	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0034	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0034	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0035	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0035	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0035	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0035	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0036	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0036	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0036	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0036	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0037	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0037	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0037	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0037	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0038	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213

EMISFACT 101S0038	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0038	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0038	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0039	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0039	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0039	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0039	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0040	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0040	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0040	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0040	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0041	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0041	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0041	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0041	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0042	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0042	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0042	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0042	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0043	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0043	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0043	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0043	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0044	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0044	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0044	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0044	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0045	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0045	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0045	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0045	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0046	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0046	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0046	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0046	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0047	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0047	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0047	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0047	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0048	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0048	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0048	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0048	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0049	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0049	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0049	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0049	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0050	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0050	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0050	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0050	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0051	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0051	HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0051	HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0051	HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0052	HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213

EMISFACT 101S0052	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0052	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0052	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0053	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0053	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0053	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0053	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0054	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0054	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0054	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0054	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0055	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0055	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0055	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0055	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0056	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0056	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0056	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0056	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0057	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0057	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0057	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0057	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0058	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0058	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0058	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0058	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0059	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0059	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0059	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0059	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0060	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0060	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0060	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0060	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0061	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0061	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0061	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0061	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0062	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0062	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0062	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0062	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0063	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0063	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0063	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0063	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0064	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0064	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0064	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0064	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0065	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213
EMISFACT 101S0065	HRDOW	0.4683	0.6908	0.7793	0.8011	0.8409	0.8574
EMISFACT 101S0065	HRDOW	0.8853	0.9077	0.9655	0.9977	1.0	0.98
EMISFACT 101S0065	HRDOW	0.8834	0.7243	0.6054	0.4974	0.3641	0.2018
EMISFACT 101S0066	HRDOW	0.0864	0.0133	0.0	0.0	0.0423	0.2213

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  EMISFACT 101S0066    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0066    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0066    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
** Sunday:
  EMISFACT 101S0001    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0001    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0001    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0001    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0002    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0002    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0002    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0002    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0003    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0003    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0003    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0003    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0004    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0004    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0004    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0004    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0005    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0005    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0005    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0005    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0006    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0006    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0006    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0006    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0007    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0007    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0007    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0007    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0008    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0008    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0008    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0008    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0009    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0009    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0009    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0009    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0010    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0010    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0010    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0010    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0011    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0011    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0011    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0011    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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  EMISFACT 101S0012    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0012    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0012    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
  EMISFACT 101S0013    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
  EMISFACT 101S0013    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
  EMISFACT 101S0013    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
  EMISFACT 101S0013    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0014    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
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EMISFACT 101S0015    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0015    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0016    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0016    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0017    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0017    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0018    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0018    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0018    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0019    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0019    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0020    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0021    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
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EMISFACT 101S0024    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
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EMISFACT 101S0025    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0025    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0026    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0026    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0026    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0027    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0027    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0027    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0028    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0028    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0029    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
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EMISFACT 101S0029    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0030    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0030    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
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EMISFACT 101S0032    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0033    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0033    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0035    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0036    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0036    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0037    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0037    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0039    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0039    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
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EMISFACT 101S0040    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
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EMISFACT 101S0041    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0041    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0041    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0042    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0042    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
EMISFACT 101S0043    HRDOW 0.0864 0.0133 0.0 0.0 0.0423 0.2213
EMISFACT 101S0043    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
EMISFACT 101S0043    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0043    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0044    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0044    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0045    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
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EMISFACT 101S0046    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0046    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0048    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0050    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0051    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0051    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0053    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0054    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0055    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0055    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0056    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
EMISFACT 101S0056    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0057    HRDOW 0.4683 0.6908 0.7793 0.8011 0.8409 0.8574
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EMISFACT 101S0057    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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EMISFACT 101S0058    HRDOW 0.8853 0.9077 0.9655 0.9977 1.0 0.98
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EMISFACT 101S0060    HRDOW 0.8834 0.7243 0.6054 0.4974 0.3641 0.2018
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SRCGROUP US101N  101N0073 101N0074 101N0075 101N0076 101N0077 101N0078
SRCGROUP US101N  101N0079 101N0080 101N0081 101N0082 101N0083 101N0084
SRCGROUP US101N  101N0085 101N0086 101N0087 101N0088 101N0089 101N0090
SRCGROUP US101N  101N0091 101N0092 101N0093 101N0094 101N0095 101N0096
SRCGROUP US101N  101N0097 101N0098 101N0099 101N0100 101N0101 101N0102
SRCGROUP US101N  101N0103 101N0104 101N0105 101N0106 101N0107 101N0108
SRCGROUP US101N  101N0109 101N0110 101N0111 101N0112 101N0113 101N0114
SRCGROUP US101N  101N0115 101N0116 101N0117 101N0118
SRCGROUP US101S  101S0001 101S0002 101S0003 101S0004 101S0005 101S0006
SRCGROUP US101S  101S0007 101S0008 101S0009 101S0010 101S0011 101S0012
SRCGROUP US101S  101S0013 101S0014 101S0015 101S0016 101S0017 101S0018
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  SRCGROUP US101S   101S0019 101S0020 101S0021 101S0022 101S0023 101S0024
  SRCGROUP US101S   101S0025 101S0026 101S0027 101S0028 101S0029 101S0030
  SRCGROUP US101S   101S0031 101S0032 101S0033 101S0034 101S0035 101S0036
  SRCGROUP US101S   101S0037 101S0038 101S0039 101S0040 101S0041 101S0042
  SRCGROUP US101S   101S0043 101S0044 101S0045 101S0046 101S0047 101S0048
  SRCGROUP US101S   101S0049 101S0050 101S0051 101S0052 101S0053 101S0054
  SRCGROUP US101S   101S0055 101S0056 101S0057 101S0058 101S0059 101S0060
  SRCGROUP US101S   101S0061 101S0062 101S0063 101S0064 101S0065 101S0066
  SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
  INCLUDED "Wood Hollow Residences_Operations.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
  SURFFILE "MET\Napa County Airport KAPC zip\Napa County Airport (KAPC)\KAPC_2013 - Copy.SFC"
  PROFFILE "MET\Napa County Airport KAPC zip\Napa County Airport (KAPC)\KAPC_2013 - Copy.PFL"
  SURFDATA 93227 2013
  UAIRDATA 23230 2013 OAKLAND/WSO_AP
  PROFBASE 4.3 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST "Wood Hollow Residences_Operations.AD\01H1GALL.PLT" 31
  PLOTFILE 1 US101N 1ST "Wood Hollow Residences_Operations.AD\01H1G001.PLT" 32
  PLOTFILE 1 US101S 1ST "Wood Hollow Residences_Operations.AD\01H1G002.PLT" 33
  PLOTFILE PERIOD ALL "Wood Hollow Residences_Operations.AD\PE00GALL.PLT" 34
  PLOTFILE PERIOD US101N "Wood Hollow Residences_Operations.AD\PE00G001.PLT" 35
  PLOTFILE PERIOD US101S "Wood Hollow Residences_Operations.AD\PE00G002.PLT" 36
  SUMMFILE "Wood Hollow Residences_Operations.sum"
OU FINISHED


 *** Message Summary For AERMOD Model Setup ***

 --------- Summary of Total Messages --------
```

```
A Total of         0 Fatal Error Message(s)
A Total of         2 Warning Message(s)
A Total of         0 Informational Message(s)


  ******** FATAL ERROR MESSAGES ********
        ***  NONE  ***


  ********   WARNING MESSAGES   ********
ME W186    1823      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used         0.50
ME W187    1823      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

************************************
*** SETUP Finishes Successfully ***
************************************

 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                    PAGE  1
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                            ***    MODEL SETUP OPTIONS SUMMARY      ***
 ------------------------------------------------------------------------

 ** Model Options Selected:
    * Model Uses Regulatory DEFAULT Options
    * Model Is Setup For Calculation of Average CONCentration Values.
    * NO GAS DEPOSITION Data Provided.
    * NO PARTICLE DEPOSITION Data Provided.
    * Model Uses NO DRY DEPLETION. DDPLETE  =  F
    * Model Uses NO WET DEPLETION. WETDPLT  =  F
    * Stack-tip Downwash.
    * Model Accounts for ELEVated Terrain Effects.
    * Use Calms Processing Routine.
    * Use Missing Data Processing Routine.
    * No Exponential Decay.
    * Model Uses URBAN Dispersion Algorithm for the SBL for   118 Source(s),
      for Total of    1 Urban Area(s):
  Urban Population =     51140.0 ;  Urban Roughness Length =  1.000 m
    * Urban Roughness Length of 1.0 Meter Used.
    * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
    * CCVR_Sub - Meteorological data includes CCVR substitutions
    * TEMP_Sub - Meteorological data includes TEMP substitutions
    * Model Accepts FLAGPOLE Receptor . Heights.
    * The User Specified a Pollutant Type of: OPS

 **Model Calculates  1 Short Term Average(s) of:   1-HR
   and Calculates PERIOD Averages

 **This Run Includes:    118 Source(s);      3 Source Group(s); and     66 Receptor(s)

           with:     0 POINT(s), including
                   0 POINTCAP(s) and     0 POINTHOR(s)
            and:   118 VOLUME source(s)
            and:     0 AREA type source(s)
```

and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 18081

**Output Options Selected:
Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 4.30 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.6 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: Wood Hollow Residences_Operations.err
**File for Summary of Results: Wood Hollow Residences_Operations.sum

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
101S0001	0	0.15152E-01	538212.3	4220473.7	3.4	3.40	11.16	3.16	YES	HRDOW	NO
101S0002	0	0.15152E-01	538209.6	4220449.8	3.5	3.40	11.16	3.16	YES	HRDOW	NO
101S0003	0	0.15152E-01	538206.6	4220426.0	3.6	3.40	11.16	3.16	YES	HRDOW	NO
101S0004	0	0.15152E-01	538202.8	4220402.3	3.7	3.40	11.16	3.16	YES	HRDOW	NO
101S0005	0	0.15152E-01	538197.9	4220378.8	3.8	3.40	11.16	3.16	YES	HRDOW	NO
101S0006	0	0.15152E-01	538192.8	4220355.4	3.8	3.40	11.16	3.16	YES	HRDOW	NO
101S0007	0	0.15152E-01	538187.6	4220332.0	3.9	3.40	11.16	3.16	YES	HRDOW	NO
101S0008	0	0.15152E-01	538181.4	4220308.8	4.0	3.40	11.16	3.16	YES	HRDOW	NO
101S0009	0	0.15152E-01	538175.3	4220285.6	4.0	3.40	11.16	3.16	YES	HRDOW	NO
101S0010	0	0.15152E-01	538168.0	4220262.7	4.1	3.40	11.16	3.16	YES	HRDOW	NO
101S0011	0	0.15152E-01	538160.8	4220239.8	4.2	3.40	11.16	3.16	YES	HRDOW	NO

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
101S0012	0	0.15152E-01	538153.7	4220216.9	4.4	3.40	11.16	3.16	YES	HRDOW	NO
101S0013	0	0.15152E-01	538145.9	4220194.2	4.6	3.40	11.16	3.16	YES	HRDOW	NO
101S0014	0	0.15152E-01	538137.9	4220171.6	4.8	3.40	11.16	3.16	YES	HRDOW	NO
101S0015	0	0.15152E-01	538129.6	4220149.0	5.0	3.40	11.16	3.16	YES	HRDOW	NO
101S0016	0	0.15152E-01	538120.9	4220126.7	5.2	3.40	11.16	3.16	YES	HRDOW	NO
101S0017	0	0.15152E-01	538112.1	4220104.3	5.5	3.40	11.16	3.16	YES	HRDOW	NO
101S0018	0	0.15152E-01	538103.3	4220082.0	5.8	3.40	11.16	3.16	YES	HRDOW	NO
101S0019	0	0.15152E-01	538095.3	4220059.4	6.1	3.40	11.16	3.16	YES	HRDOW	NO
101S0020	0	0.15152E-01	538087.0	4220036.9	6.5	3.40	11.16	3.16	YES	HRDOW	NO
101S0021	0	0.15152E-01	538078.3	4220014.5	6.8	3.40	11.16	3.16	YES	HRDOW	NO
101S0022	0	0.15152E-01	538070.3	4219991.9	7.2	3.40	11.16	3.16	YES	HRDOW	NO
101S0023	0	0.15152E-01	538062.9	4219969.0	7.6	3.40	11.16	3.16	YES	HRDOW	NO
101S0024	0	0.15152E-01	538056.1	4219946.1	8.0	3.40	11.16	3.16	YES	HRDOW	NO
101S0025	0	0.15152E-01	538049.7	4219922.9	8.4	3.40	11.16	3.16	YES	HRDOW	NO
101S0026	0	0.15152E-01	538044.0	4219899.6	8.8	3.40	11.16	3.16	YES	HRDOW	NO
101S0027	0	0.15152E-01	538039.2	4219876.1	9.1	3.40	11.16	3.16	YES	HRDOW	NO
101S0028	0	0.15152E-01	538034.6	4219852.5	9.5	3.40	11.16	3.16	YES	HRDOW	NO
101S0029	0	0.15152E-01	538031.3	4219828.8	9.8	3.40	11.16	3.16	YES	HRDOW	NO
101S0030	0	0.15152E-01	538028.2	4219805.0	10.2	3.40	11.16	3.16	YES	HRDOW	NO
101S0031	0	0.15152E-01	538025.9	4219781.1	10.6	3.40	11.16	3.16	YES	HRDOW	NO
101S0032	0	0.15152E-01	538023.6	4219757.2	10.9	3.40	11.16	3.16	YES	HRDOW	NO
101S0033	0	0.15152E-01	538022.4	4219733.2	11.2	3.40	11.16	3.16	YES	HRDOW	NO
101S0034	0	0.15152E-01	538021.2	4219709.3	11.6	3.40	11.16	3.16	YES	HRDOW	NO
101S0035	0	0.15152E-01	538020.8	4219685.3	11.9	3.40	11.16	3.16	YES	HRDOW	NO
101S0036	0	0.15152E-01	538021.9	4219661.3	12.1	3.40	11.16	3.16	YES	HRDOW	NO
101S0037	0	0.15152E-01	538023.6	4219637.4	12.3	3.40	11.16	3.16	YES	HRDOW	NO
101S0038	0	0.15152E-01	538025.7	4219613.5	12.5	3.40	11.16	3.16	YES	HRDOW	NO
101S0039	0	0.15152E-01	538028.1	4219589.6	12.5	3.40	11.16	3.16	YES	HRDOW	NO
101S0040	0	0.15152E-01	538030.8	4219565.7	12.6	3.40	11.16	3.16	YES	HRDOW	NO

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
101S0041	0	0.15152E-01	538033.6	4219541.9	12.6	3.40	11.16	3.16	YES	HRDOW	NO
101S0042	0	0.15152E-01	538036.6	4219518.1	12.6	3.40	11.16	3.16	YES	HRDOW	NO
101S0043	0	0.15152E-01	538039.8	4219494.3	12.5	3.40	11.16	3.16	YES	HRDOW	NO
101S0044	0	0.15152E-01	538042.7	4219470.5	11.2	3.40	11.16	3.16	YES	HRDOW	NO
101S0045	0	0.15152E-01	538045.3	4219446.6	7.3	3.40	11.16	3.16	YES	HRDOW	NO
101S0046	0	0.15152E-01	538047.9	4219422.8	4.3	3.40	11.16	3.16	YES	HRDOW	NO
101S0047	0	0.15152E-01	538050.6	4219398.9	3.3	3.40	11.16	3.16	YES	HRDOW	NO
101S0048	0	0.15152E-01	538053.3	4219375.1	3.8	3.40	11.16	3.16	YES	HRDOW	NO
101S0049	0	0.15152E-01	538056.0	4219351.2	6.4	3.40	11.16	3.16	YES	HRDOW	NO
101S0050	0	0.15152E-01	538058.9	4219327.4	9.6	3.40	11.16	3.16	YES	HRDOW	NO
101S0051	0	0.15152E-01	538062.1	4219303.6	11.2	3.40	11.16	3.16	YES	HRDOW	NO
101S0052	0	0.15152E-01	538065.3	4219279.8	10.9	3.40	11.16	3.16	YES	HRDOW	NO
101S0053	0	0.15152E-01	538068.4	4219256.0	10.6	3.40	11.16	3.16	YES	HRDOW	NO
101S0054	0	0.15152E-01	538071.6	4219232.2	10.3	3.40	11.16	3.16	YES	HRDOW	NO

101S0055	0	0.15152E-01	538074.8	4219208.5	9.9	3.40	11.16	3.16	YES	HRDOW	NO
101S0056	0	0.15152E-01	538078.1	4219184.7	9.5	3.40	11.16	3.16	YES	HRDOW	NO
101S0057	0	0.15152E-01	538081.3	4219160.9	9.0	3.40	11.16	3.16	YES	HRDOW	NO
101S0058	0	0.15152E-01	538084.4	4219137.1	8.6	3.40	11.16	3.16	YES	HRDOW	NO
101S0059	0	0.15152E-01	538087.5	4219113.3	8.1	3.40	11.16	3.16	YES	HRDOW	NO
101S0060	0	0.15152E-01	538090.6	4219089.5	7.6	3.40	11.16	3.16	YES	HRDOW	NO
101S0061	0	0.15152E-01	538093.7	4219065.7	7.2	3.40	11.16	3.16	YES	HRDOW	NO
101S0062	0	0.15152E-01	538096.8	4219041.9	6.7	3.40	11.16	3.16	YES	HRDOW	NO
101S0063	0	0.15152E-01	538100.0	4219018.1	6.2	3.40	11.16	3.16	YES	HRDOW	NO
101S0064	0	0.15152E-01	538103.1	4218994.3	5.7	3.40	11.16	3.16	YES	HRDOW	NO
101S0065	0	0.15152E-01	538106.0	4218970.5	5.3	3.40	11.16	3.16	YES	HRDOW	NO
101S0066	0	0.15152E-01	538108.9	4218946.7	4.9	3.40	11.16	3.16	YES	HRDOW	NO
101N0067	0	0.19231E-01	538237.9	4220466.9	3.9	3.40	13.95	3.16	YES	HRDOW	NO
101N0068	0	0.19231E-01	538234.0	4220437.1	4.0	3.40	13.95	3.16	YES	HRDOW	NO
101N0069	0	0.19231E-01	538230.2	4220407.4	4.2	3.40	13.95	3.16	YES	HRDOW	NO
101N0070	0	0.19231E-01	538225.1	4220377.8	4.3	3.40	13.95	3.16	YES	HRDOW	NO
101N0071	0	0.19231E-01	538218.5	4220348.6	4.3	3.40	13.95	3.16	YES	HRDOW	NO
101N0072	0	0.19231E-01	538211.9	4220319.3	4.4	3.40	13.95	3.16	YES	HRDOW	NO
101N0073	0	0.19231E-01	538205.3	4220290.1	4.6	3.40	13.95	3.16	YES	HRDOW	NO
101N0074	0	0.19231E-01	538197.3	4220261.2	4.7	3.40	13.95	3.16	YES	HRDOW	NO
101N0075	0	0.19231E-01	538187.3	4220232.9	4.7	3.40	13.95	3.16	YES	HRDOW	NO
101N0076	0	0.19231E-01	538177.2	4220204.6	4.8	3.40	13.95	3.16	YES	HRDOW	NO
101N0077	0	0.19231E-01	538167.2	4220176.4	4.9	3.40	13.95	3.16	YES	HRDOW	NO
101N0078	0	0.19231E-01	538157.2	4220148.1	5.1	3.40	13.95	3.16	YES	HRDOW	NO
101N0079	0	0.19231E-01	538147.1	4220119.8	5.2	3.40	13.95	3.16	YES	HRDOW	NO
101N0080	0	0.19231E-01	538137.1	4220091.6	5.5	3.40	13.95	3.16	YES	HRDOW	NO

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
101N0081	0	0.19231E-01	538127.1	4220063.3	5.7	3.40	13.95	3.16	YES	HRDOW	NO
101N0082	0	0.19231E-01	538116.9	4220035.0	6.0	3.40	13.95	3.16	YES	HRDOW	NO
101N0083	0	0.19231E-01	538106.6	4220006.9	6.3	3.40	13.95	3.16	YES	HRDOW	NO
101N0084	0	0.19231E-01	538096.4	4219978.7	6.7	3.40	13.95	3.16	YES	HRDOW	NO
101N0085	0	0.19231E-01	538086.4	4219950.4	7.1	3.40	13.95	3.16	YES	HRDOW	NO
101N0086	0	0.19231E-01	538078.0	4219921.6	7.6	3.40	13.95	3.16	YES	HRDOW	NO
101N0087	0	0.19231E-01	538071.5	4219892.3	8.0	3.40	13.95	3.16	YES	HRDOW	NO
101N0088	0	0.19231E-01	538065.1	4219863.0	8.5	3.40	13.95	3.16	YES	HRDOW	NO
101N0089	0	0.19231E-01	538059.8	4219833.5	9.0	3.40	13.95	3.16	YES	HRDOW	NO
101N0090	0	0.19231E-01	538055.6	4219803.8	9.4	3.40	13.95	3.16	YES	HRDOW	NO
101N0091	0	0.19231E-01	538051.4	4219774.1	9.9	3.40	13.95	3.16	YES	HRDOW	NO
101N0092	0	0.19231E-01	538049.6	4219744.2	10.4	3.40	13.95	3.16	YES	HRDOW	NO
101N0093	0	0.19231E-01	538048.7	4219714.2	10.8	3.40	13.95	3.16	YES	HRDOW	NO
101N0094	0	0.19231E-01	538049.6	4219684.3	11.2	3.40	13.95	3.16	YES	HRDOW	NO
101N0095	0	0.19231E-01	538051.5	4219654.3	11.4	3.40	13.95	3.16	YES	HRDOW	NO
101N0096	0	0.19231E-01	538053.3	4219624.4	11.8	3.40	13.95	3.16	YES	HRDOW	NO
101N0097	0	0.19231E-01	538055.6	4219594.5	12.2	3.40	13.95	3.16	YES	HRDOW	NO

101N0098	0	0.19231E-01	538059.5	4219564.7	12.3	3.40	13.95	3.16	YES	HRDOW	NO
101N0099	0	0.19231E-01	538063.4	4219535.0	9.3	3.40	13.95	3.16	YES	HRDOW	NO
101N0100	0	0.19231E-01	538067.3	4219505.2	4.6	3.40	13.95	3.16	YES	HRDOW	NO
101N0101	0	0.19231E-01	538071.0	4219475.5	3.3	3.40	13.95	3.16	YES	HRDOW	NO
101N0102	0	0.19231E-01	538074.2	4219445.6	3.9	3.40	13.95	3.16	YES	HRDOW	NO
101N0103	0	0.19231E-01	538077.5	4219415.8	8.7	3.40	13.95	3.16	YES	HRDOW	NO
101N0104	0	0.19231E-01	538080.7	4219386.0	11.7	3.40	13.95	3.16	YES	HRDOW	NO
101N0105	0	0.19231E-01	538083.9	4219356.2	11.9	3.40	13.95	3.16	YES	HRDOW	NO
101N0106	0	0.19231E-01	538087.1	4219326.3	11.5	3.40	13.95	3.16	YES	HRDOW	NO
101N0107	0	0.19231E-01	538090.4	4219296.5	11.1	3.40	13.95	3.16	YES	HRDOW	NO
101N0108	0	0.19231E-01	538094.0	4219266.7	10.8	3.40	13.95	3.16	YES	HRDOW	NO
101N0109	0	0.19231E-01	538097.8	4219237.0	10.4	3.40	13.95	3.16	YES	HRDOW	NO
101N0110	0	0.19231E-01	538101.6	4219207.2	9.9	3.40	13.95	3.16	YES	HRDOW	NO
101N0111	0	0.19231E-01	538105.5	4219177.5	9.4	3.40	13.95	3.16	YES	HRDOW	NO
101N0112	0	0.19231E-01	538109.3	4219147.7	8.8	3.40	13.95	3.16	YES	HRDOW	NO
101N0113	0	0.19231E-01	538113.1	4219118.0	8.2	3.40	13.95	3.16	YES	HRDOW	NO
101N0114	0	0.19231E-01	538116.9	4219088.2	7.6	3.40	13.95	3.16	YES	HRDOW	NO
101N0115	0	0.19231E-01	538120.7	4219058.4	7.1	3.40	13.95	3.16	YES	HRDOW	NO
101N0116	0	0.19231E-01	538124.9	4219028.7	6.4	3.40	13.95	3.16	YES	HRDOW	NO
101N0117	0	0.19231E-01	538129.1	4218999.0	5.8	3.40	13.95	3.16	YES	HRDOW	NO
101N0118	0	0.19231E-01	538133.2	4218969.3	5.2	3.40	13.95	3.16	YES	HRDOW	NO

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
US101N	101N0067 , 101N0068 , 101N0069 , 101N0070 , 101N0071 , 101N0072 , 101N0073 , 101N0074 , 101N0075 , 101N0076 , 101N0077 , 101N0078 , 101N0079 , 101N0080 , 101N0081 , 101N0082 , 101N0083 , 101N0084 , 101N0085 , 101N0086 , 101N0087 , 101N0088 , 101N0089 , 101N0090 , 101N0091 , 101N0092 , 101N0093 , 101N0094 , 101N0095 , 101N0096 , 101N0097 , 101N0098 , 101N0099 , 101N0100 , 101N0101 , 101N0102 , 101N0103 , 101N0104 , 101N0105 , 101N0106 , 101N0107 , 101N0108 , 101N0109 , 101N0110 , 101N0111 , 101N0112 , 101N0113 , 101N0114 , 101N0115 , 101N0116 , 101N0117 , 101N0118 ,
US101S	101S0001 , 101S0002 , 101S0003 , 101S0004 , 101S0005 , 101S0006 , 101S0007 , 101S0008 , 101S0009 , 101S0010 , 101S0011 , 101S0012 , 101S0013 , 101S0014 , 101S0015 , 101S0016 , 101S0017 , 101S0018 , 101S0019 , 101S0020 , 101S0021 , 101S0022 , 101S0023 , 101S0024 , 101S0025 , 101S0026 , 101S0027 , 101S0028 , 101S0029 , 101S0030 , 101S0031 , 101S0032 , 101S0033 , 101S0034 , 101S0035 , 101S0036 , 101S0037 , 101S0038 , 101S0039 , 101S0040 ,

101S0041 , 101S0042 , 101S0043 , 101S0044 , 101S0045 , 101S0046 , 101S0047 , 101S0048 ,

101S0049 , 101S0050 , 101S0051 , 101S0052 , 101S0053 , 101S0054 , 101S0055 , 101S0056 ,

101S0057 , 101S0058 , 101S0059 , 101S0060 , 101S0061 , 101S0062 , 101S0063 , 101S0064 ,

101S0065 , 101S0066 ,

ALL 101S0001 , 101S0002 , 101S0003 , 101S0004 , 101S0005 , 101S0006 , 101S0007 , 101S0008 ,

101S0009 , 101S0010 , 101S0011 , 101S0012 , 101S0013 , 101S0014 , 101S0015 , 101S0016 ,

101S0017 , 101S0018 , 101S0019 , 101S0020 , 101S0021 , 101S0022 , 101S0023 , 101S0024 ,

101S0025 , 101S0026 , 101S0027 , 101S0028 , 101S0029 , 101S0030 , 101S0031 , 101S0032 ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	101S0033 , 101S0034 , 101S0035 , 101S0036 , 101S0037 , 101S0038 , 101S0039 , 101S0040 ,
	101S0041 , 101S0042 , 101S0043 , 101S0044 , 101S0045 , 101S0046 , 101S0047 , 101S0048 ,
	101S0049 , 101S0050 , 101S0051 , 101S0052 , 101S0053 , 101S0054 , 101S0055 , 101S0056 ,
	101S0057 , 101S0058 , 101S0059 , 101S0060 , 101S0061 , 101S0062 , 101S0063 , 101S0064 ,
	101S0065 , 101S0066 , 101N0067 , 101N0068 , 101N0069 , 101N0070 , 101N0071 , 101N0072 ,
	101N0073 , 101N0074 , 101N0075 , 101N0076 , 101N0077 , 101N0078 , 101N0079 , 101N0080 ,
	101N0081 , 101N0082 , 101N0083 , 101N0084 , 101N0085 , 101N0086 , 101N0087 , 101N0088 ,
	101N0089 , 101N0090 , 101N0091 , 101N0092 , 101N0093 , 101N0094 , 101N0095 , 101N0096 ,
	101N0097 , 101N0098 , 101N0099 , 101N0100 , 101N0101 , 101N0102 , 101N0103 , 101N0104 ,
	101N0105 , 101N0106 , 101N0107 , 101N0108 , 101N0109 , 101N0110 , 101N0111 , 101N0112 ,
	101N0113 , 101N0114 , 101N0115 , 101N0116 , 101N0117 , 101N0118 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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 URBAN ID  URBAN POP                    SOURCE IDs
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        51140.  101S0001   , 101S0002   , 101S0003   , 101S0004   , 101S0005   , 101S0006   , 101S0007   ,
101S0008   ,

      101S0009   , 101S0010   , 101S0011   , 101S0012   , 101S0013   , 101S0014   , 101S0015   , 101S0016   ,

      101S0017   , 101S0018   , 101S0019   , 101S0020   , 101S0021   , 101S0022   , 101S0023   , 101S0024   ,

      101S0025   , 101S0026   , 101S0027   , 101S0028   , 101S0029   , 101S0030   , 101S0031   , 101S0032   ,

      101S0033   , 101S0034   , 101S0035   , 101S0036   , 101S0037   , 101S0038   , 101S0039   , 101S0040   ,

      101S0041   , 101S0042   , 101S0043   , 101S0044   , 101S0045   , 101S0046   , 101S0047   , 101S0048   ,

      101S0049   , 101S0050   , 101S0051   , 101S0052   , 101S0053   , 101S0054   , 101S0055   , 101S0056   ,

      101S0057   , 101S0058   , 101S0059   , 101S0060   , 101S0061   , 101S0062   , 101S0063   , 101S0064   ,

      101S0065   , 101S0066   , 101N0067   , 101N0068   , 101N0069   , 101N0070   , 101N0071   , 101N0072   ,

      101N0073   , 101N0074   , 101N0075   , 101N0076   , 101N0077   , 101N0078   , 101N0079   , 101N0080   ,

      101N0081   , 101N0082   , 101N0083   , 101N0084   , 101N0085   , 101N0086   , 101N0087   , 101N0088   ,

      101N0089   , 101N0090   , 101N0091   , 101N0092   , 101N0093   , 101N0094   , 101N0095   , 101N0096   ,

      101N0097   , 101N0098   , 101N0099   , 101N0100   , 101N0101   , 101N0102   , 101N0103   , 101N0104   ,

      101N0105   , 101N0106   , 101N0107   , 101N0108   , 101N0109   , 101N0110   , 101N0111   , 101N0112   ,

      101N0113   , 101N0114   , 101N0115   , 101N0116   , 101N0117   , 101N0118   ,
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE  8
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0001    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                          DAY OF WEEK = WEEKDAY
   1  .8640E-01   2  .1330E-01   3  .0000E+00   4  .0000E+00   5  .4230E-01   6  .2213E+00   7  .4683E+00   8  .6908E+00
   9  .7793E+00  10  .8011E+00  11  .8409E+00  12  .8574E+00  13  .8853E+00  14  .9077E+00  15  .9655E+00  16  .9977E+00
  17  .1000E+01  18  .9800E+00  19  .8834E+00  20  .7243E+00  21  .6054E+00  22  .4974E+00  23  .3641E+00  24  .2018E+00
                          DAY OF WEEK = SATURDAY
   1  .8640E-01   2  .1330E-01   3  .0000E+00   4  .0000E+00   5  .4230E-01   6  .2213E+00   7  .4683E+00   8  .6908E+00
   9  .7793E+00  10  .8011E+00  11  .8409E+00  12  .8574E+00  13  .8853E+00  14  .9077E+00  15  .9655E+00  16  .9977E+00
  17  .1000E+01  18  .9800E+00  19  .8834E+00  20  .7243E+00  21  .6054E+00  22  .4974E+00  23  .3641E+00  24  .2018E+00
                          DAY OF WEEK = SUNDAY
   1  .8640E-01   2  .1330E-01   3  .0000E+00   4  .0000E+00   5  .4230E-01   6  .2213E+00   7  .4683E+00   8  .6908E+00
   9  .7793E+00  10  .8011E+00  11  .8409E+00  12  .8574E+00  13  .8853E+00  14  .9077E+00  15  .9655E+00  16  .9977E+00
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 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  9
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0002    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                   PAGE  10
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0003    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                   PAGE  11
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0004    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
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  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  12
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0005    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  13
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0006    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0007 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00
DAY OF WEEK = SATURDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00
DAY OF WEEK = SUNDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0008 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00
DAY OF WEEK = SATURDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00
DAY OF WEEK = SUNDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0009 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00

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 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 17
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0010    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 18
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0011    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 19
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*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0012    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                   PAGE  20
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0013    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                   PAGE  21
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0014    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
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  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                   PAGE 22
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0015    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                   PAGE 23
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0016    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                   PAGE 24
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
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```
            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0017    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                            DAY OF WEEK = WEEKDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SATURDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SUNDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE  25
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0018    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                            DAY OF WEEK = WEEKDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SATURDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SUNDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE  26
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0019    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                            DAY OF WEEK = WEEKDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SATURDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
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 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE 27
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0020    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE 28
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0021    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE 29
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
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SOURCE ID = 101S0022    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 30
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0023    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 31
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0024    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
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  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                  PAGE 32
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0025    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                          DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                          DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                          DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                  PAGE 33
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0026    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                          DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                          DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                          DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                  PAGE 34
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0027    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
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- -

DAY OF WEEK = WEEKDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SATURDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SUNDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

*** AERMOD - VERSION 23132 *** *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside *** 02/03/25
*** AERMET - VERSION 18081 *** *** Wood Hollow Residences Operations *** 12:14:34
PAGE 35
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0028 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SATURDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SUNDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

*** AERMOD - VERSION 23132 *** *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside *** 02/03/25
*** AERMET - VERSION 18081 *** *** Wood Hollow Residences Operations *** 12:14:34
PAGE 36
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0029 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SATURDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SUNDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00

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 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  37
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0030    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                          DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                          DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                          DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  38
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0031    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                          DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                          DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                          DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  39
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0032    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                          DAY OF WEEK = WEEKDAY
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  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 40
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0033    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 41
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0034    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0035 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SATURDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SUNDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0036 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SATURDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SUNDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0037 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00

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 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 45
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0038    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 46
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0039    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 47
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*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0040    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                    PAGE  48
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0041    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                    PAGE  49
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0042    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
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  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                PAGE  50
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

           * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0043    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                PAGE  51
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

           * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0044    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                PAGE  52
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
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            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0045    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                            DAY OF WEEK = WEEKDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SATURDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SUNDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE  53
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0046    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                            DAY OF WEEK = WEEKDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SATURDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SUNDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE  54
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0047    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                            DAY OF WEEK = WEEKDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
  17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SATURDAY
   1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
   9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
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 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE  55
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0048    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE  56
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0049    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE  57
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
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SOURCE ID = 101S0050    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  58
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0051    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  59
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0052    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
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  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 60
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0053    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                          DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                          DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                          DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 61
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0054    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                          DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                          DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                          DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 62
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0055    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
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- -

DAY OF WEEK = WEEKDAY

1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SATURDAY

1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SUNDAY

1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0056 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- -

DAY OF WEEK = WEEKDAY

1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SATURDAY

1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SUNDAY

1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0057 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- -

DAY OF WEEK = WEEKDAY

1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SATURDAY

1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SUNDAY

1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00

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 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                    PAGE 65
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0058    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                            DAY OF WEEK = WEEKDAY
 1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
 9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SATURDAY
 1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
 9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SUNDAY
 1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
 9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                    PAGE 66
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0059    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                            DAY OF WEEK = WEEKDAY
 1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
 9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SATURDAY
 1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
 9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                            DAY OF WEEK = SUNDAY
 1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
 9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                    PAGE 67
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0060    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                            DAY OF WEEK = WEEKDAY
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  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  68
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0061    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  69
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0062    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                         DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0063 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SATURDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SUNDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0064 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SATURDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

DAY OF WEEK = SUNDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00
17 .1000E+01 18 .9800E+00 19 .8834E+00 20 .7243E+00 21 .6054E+00 22 .4974E+00 23 .3641E+00 24 .2018E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101S0065 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .8640E-01 2 .1330E-01 3 .0000E+00 4 .0000E+00 5 .4230E-01 6 .2213E+00 7 .4683E+00 8 .6908E+00
9 .7793E+00 10 .8011E+00 11 .8409E+00 12 .8574E+00 13 .8853E+00 14 .9077E+00 15 .9655E+00 16 .9977E+00

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 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  73
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101S0066    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SATURDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
                        DAY OF WEEK = SUNDAY
  1 .8640E-01   2 .1330E-01   3 .0000E+00   4 .0000E+00   5 .4230E-01   6 .2213E+00   7 .4683E+00   8 .6908E+00
  9 .7793E+00  10 .8011E+00  11 .8409E+00  12 .8574E+00  13 .8853E+00  14 .9077E+00  15 .9655E+00  16 .9977E+00
 17 .1000E+01  18 .9800E+00  19 .8834E+00  20 .7243E+00  21 .6054E+00  22 .4974E+00  23 .3641E+00  24 .2018E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  74
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0067    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  75
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*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0068    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                   PAGE  76
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0069    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                   PAGE  77
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0070    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
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  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                PAGE  78
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0071    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                PAGE  79
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0072    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                PAGE  80
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0073 ; SOURCE TYPE = VOLUME :

```
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----------------------------------------------------------------
                    DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                    DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                    DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0074 ; SOURCE TYPE = VOLUME :

```
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----------------------------------------------------------------
                    DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                    DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                    DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
```


* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0075 ; SOURCE TYPE = VOLUME :

```
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----------------------------------------------------------------
                    DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                    DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
```

```
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  83
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0076    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  84
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0077    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE  85
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
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```
SOURCE ID = 101N0078    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE  86
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

           * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0079    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE  87
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

           * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0080    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
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  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE  88
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0081    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                          DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                          DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                          DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE  89
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0082    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                          DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                          DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                          DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE  90
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0083    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
```

- -
DAY OF WEEK = WEEKDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SATURDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SUNDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0084 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SATURDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SUNDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0085 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SATURDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SUNDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00

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  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                    PAGE  93
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0086    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                              DAY OF WEEK = SATURDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                              DAY OF WEEK = SUNDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                    PAGE  94
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0087    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                              DAY OF WEEK = SATURDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                              DAY OF WEEK = SUNDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                    PAGE  95
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0088    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
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  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                          DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                          DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE  96
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

           * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0089    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                          DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                          DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                          DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE  97
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

           * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0090    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                          DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                          DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                          DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0091 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SATURDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SUNDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0092 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SATURDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SUNDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0093 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00

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 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE 101
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0094    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE 102
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0095    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 ---------------------------------------------------------------------
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE 103
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*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0096    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE 104
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0097    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE 105
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0098    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
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  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 106
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0099    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 107
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0100    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 108
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
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            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0101    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                            DAY OF WEEK = WEEKDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                            DAY OF WEEK = SATURDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                            DAY OF WEEK = SUNDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE 109
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0102    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                            DAY OF WEEK = WEEKDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                            DAY OF WEEK = SATURDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                            DAY OF WEEK = SUNDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE 110
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0103    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                            DAY OF WEEK = WEEKDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                            DAY OF WEEK = SATURDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
```

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 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE 111
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

           * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0104    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE 112
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

           * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0105    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE 113
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

           * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
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SOURCE ID = 101N0106    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE 114
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

           * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0107    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE 115
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

           * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0108    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                        DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                        DAY OF WEEK = SUNDAY
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  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE 116
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0109    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE 117
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0110    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
*** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
*** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE 118
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0111    ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
```

- -
DAY OF WEEK = WEEKDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SATURDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SUNDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0112 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SATURDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SUNDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = 101N0113 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SATURDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00
17 .1000E+01 18 .8323E+00 19 .4123E+00 20 .2296E+00 21 .1764E+00 22 .2022E+00 23 .1971E+00 24 .1819E+00
DAY OF WEEK = SUNDAY
1 .1466E+00 2 .1143E+00 3 .1056E+00 4 .7530E-01 5 .5880E-01 6 .5810E-01 7 .9050E-01 8 .1101E+00
9 .1117E+00 10 .1216E+00 11 .1384E+00 12 .1539E+00 13 .2039E+00 14 .2602E+00 15 .4725E+00 16 .9324E+00

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  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE 121
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0114    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                              DAY OF WEEK = SATURDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                              DAY OF WEEK = SUNDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE 122
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0115    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                              DAY OF WEEK = SATURDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                              DAY OF WEEK = SUNDAY
   1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
   9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
  17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***       02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***       12:14:34
                                                                                                   PAGE 123
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0116    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
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  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE 124
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0117    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                                   PAGE 125
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

            * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = 101N0118    ; SOURCE TYPE = VOLUME  :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                         DAY OF WEEK = WEEKDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SATURDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
                         DAY OF WEEK = SUNDAY
  1 .1466E+00   2 .1143E+00   3 .1056E+00   4 .7530E-01   5 .5880E-01   6 .5810E-01   7 .9050E-01   8 .1101E+00
  9 .1117E+00  10 .1216E+00  11 .1384E+00  12 .1539E+00  13 .2039E+00  14 .2602E+00  15 .4725E+00  16 .9324E+00
 17 .1000E+01  18 .8323E+00  19 .4123E+00  20 .2296E+00  21 .1764E+00  22 .2022E+00  23 .1971E+00  24 .1819E+00
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
( 537718.0, 4219661.0,    7.0,    61.0,    1.5);    ( 537706.0, 4219667.0,    7.2,    61.0,    1.5);
( 537693.0, 4219674.0,    7.4,    61.0,    1.5);    ( 537671.0, 4219684.0,    7.1,    61.0,    1.5);
( 537657.0, 4219690.0,    7.4,    61.0,    1.5);    ( 537645.0, 4219696.0,    7.9,    61.0,    1.5);
( 537650.0, 4219718.0,    8.6,    61.0,    1.5);    ( 537663.0, 4219712.0,    8.0,    61.0,    1.5);
( 537675.0, 4219707.0,    7.9,    61.0,    1.5);    ( 537702.0, 4219693.0,    7.9,    61.0,    1.5);
( 537716.0, 4219687.0,    7.8,    61.0,    1.5);    ( 537727.0, 4219681.0,    7.6,    61.0,    1.5);
( 537736.0, 4219695.0,    8.3,    61.0,    1.5);    ( 537723.0, 4219701.0,    8.5,    61.0,    1.5);
( 537710.0, 4219707.0,    8.7,    61.0,    1.5);    ( 537687.0, 4219718.0,    8.5,    61.0,    1.5);
( 537674.0, 4219724.0,    8.3,    61.0,    1.5);    ( 537662.0, 4219730.0,    8.5,    61.0,    1.5);
( 537649.0, 4219737.0,    9.2,    61.0,    1.5);    ( 537646.0, 4219766.0,   10.1,    61.0,    1.5);
( 537659.0, 4219755.0,    9.3,    61.0,    1.5);    ( 537671.0, 4219749.0,    9.1,    61.0,    1.5);
( 537684.0, 4219743.0,    9.4,    61.0,    1.5);    ( 537696.0, 4219736.0,    9.6,    61.0,    1.5);
( 537718.0, 4219726.0,    9.7,    61.0,    1.5);    ( 537731.0, 4219720.0,    9.5,    61.0,    1.5);
( 537744.0, 4219713.0,    9.2,    61.0,    1.5);    ( 537758.0, 4219740.0,   10.8,    61.0,    1.5);
( 537743.0, 4219746.0,   11.7,    61.0,    1.5);    ( 537732.0, 4219752.0,   11.6,    61.0,    1.5);
( 537707.0, 4219764.0,   11.6,    61.0,    1.5);    ( 537694.0, 4219769.0,   10.9,    61.0,    1.5);
( 537682.0, 4219776.0,   10.3,    61.0,    1.5);    ( 537667.0, 4219786.0,   10.4,    61.0,    1.5);
( 537672.0, 4219798.0,   11.1,    61.0,    1.5);    ( 537690.0, 4219794.0,   11.7,    61.0,    1.5);
( 537704.0, 4219789.0,   12.0,    61.0,    1.5);    ( 537717.0, 4219782.0,   11.9,    61.0,    1.5);
( 537741.0, 4219771.0,   12.0,    61.0,    1.5);    ( 537755.0, 4219765.0,   11.9,    61.0,    1.5);
( 537766.0, 4219758.0,   11.9,    61.0,    1.5);    ( 537788.0, 4219767.0,   11.9,    61.0,    1.5);
( 537776.0, 4219772.0,   11.9,    61.0,    1.5);    ( 537763.0, 4219779.0,   11.9,    61.0,    1.5);
( 537752.0, 4219786.0,   11.9,    61.0,    1.5);    ( 537722.0, 4219798.0,   11.9,    61.0,    1.5);
( 537709.0, 4219804.0,   12.0,    61.0,    1.5);    ( 537697.0, 4219810.0,   12.0,    61.0,    1.5);
( 537678.0, 4219811.0,   11.9,    61.0,    1.5);    ( 537777.0, 4219797.0,   14.0,    61.0,    1.5);
( 537765.0, 4219803.0,   13.9,    61.0,    1.5);    ( 537752.0, 4219809.0,   13.9,    61.0,    1.5);
( 537732.0, 4219818.0,   14.1,    61.0,    1.5);    ( 537719.0, 4219825.0,   13.5,    61.0,    1.5);
( 537706.0, 4219830.0,   13.0,    61.0,    1.5);    ( 537694.0, 4219836.0,   13.1,    61.0,    1.5);
( 537676.0, 4219841.0,   13.5,    61.0,    1.5);    ( 537663.0, 4219848.0,   13.5,    61.0,    1.5);
( 537651.0, 4219853.0,   13.6,    61.0,    1.5);    ( 537637.0, 4219859.0,   13.8,    61.0,    1.5);
( 537621.0, 4219856.0,   14.2,    61.0,    1.5);    ( 537628.0, 4219834.0,   12.9,    61.0,    1.5);
( 537645.0, 4219830.0,   12.4,    61.0,    1.5);    ( 537659.0, 4219825.0,   12.3,    61.0,    1.5);
( 537649.0, 4219811.0,   11.5,    61.0,    1.5);    ( 537635.0, 4219817.0,   12.1,    61.0,    1.5);
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*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: MET\Napa County Airport KAPC zip\Napa County Airport (KAPC)\KAPC_2013 - Copy.SFC Met Version: 18081
Profile file: MET\Napa County Airport KAPC zip\Napa County Airport (KAPC)\KAPC_2013 - Copy.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93227 Upper air station no.: 23230
Name: UNKNOWN Name: OAKLAND/WSO_AP
Year: 2013 Year: 2013

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
13	01	01	1	01	-20.7	0.199	-9.000	-9.000	-999.	214.	43.7	0.02	1.13	1.00	3.36	351.	10.0	275.9	2.0
13	01	01	1	02	-27.1	0.260	-9.000	-9.000	-999.	319.	74.6	0.02	1.13	1.00	4.34	2.	10.0	274.9	2.0
13	01	01	1	03	-25.5	0.247	-9.000	-9.000	-999.	294.	67.0	0.02	1.13	1.00	4.12	3.	10.0	276.4	2.0
13	01	01	1	04	-25.8	0.251	-9.000	-9.000	-999.	302.	69.4	0.02	1.13	1.00	4.19	16.	10.0	278.8	2.0
13	01	01	1	05	-14.0	0.151	-9.000	-9.000	-999.	145.	25.1	0.02	1.13	1.00	2.59	46.	10.0	278.8	2.0
13	01	01	1	06	-7.4	0.109	-9.000	-9.000	-999.	86.	15.7	0.02	1.13	1.00	1.91	58.	10.0	276.4	2.0
13	01	01	1	07	-8.1	0.114	-9.000	-9.000	-999.	92.	16.5	0.02	1.13	1.00	1.99	41.	10.0	275.4	2.0
13	01	01	1	08	-16.4	0.164	-9.000	-9.000	-999.	159.	29.5	0.02	1.13	1.00	2.79	32.	10.0	275.4	2.0
13	01	01	1	09	-2.4	0.118	-9.000	-9.000	-999.	97.	62.7	0.02	1.13	0.40	1.96	19.	10.0	278.8	2.0
13	01	01	1	10	44.3	0.214	0.522	0.005	117.	237.	-20.1	0.02	1.13	0.27	2.96	348.	10.0	280.9	2.0
13	01	01	1	11	83.7	0.281	0.854	0.005	272.	358.	-24.3	0.02	1.13	0.22	3.95	358.	10.0	283.1	2.0
13	01	01	1	12	106.0	0.335	1.290	0.008	740.	466.	-32.5	0.02	1.13	0.21	4.80	25.	10.0	284.2	2.0
13	01	01	1	13	110.0	0.352	1.394	0.008	899.	501.	-36.2	0.02	1.13	0.21	5.07	35.	10.0	284.9	2.0
13	01	01	1	14	96.1	0.269	1.347	0.007	929.	339.	-18.5	0.01	1.13	0.21	4.10	70.	10.0	286.4	2.0
13	01	01	1	15	64.2	0.299	1.186	0.007	948.	392.	-38.0	0.02	1.13	0.25	4.32	50.	10.0	287.0	2.0
13	01	01	1	16	17.3	0.266	0.768	0.006	953.	330.	-99.4	0.02	1.13	0.33	4.02	45.	10.0	286.4	2.0
13	01	01	1	17	-17.6	0.201	-9.000	-9.000	-999.	217.	44.4	0.01	1.13	0.57	3.68	103.	10.0	280.9	2.0
13	01	01	1	18	-23.9	0.235	-9.000	-9.000	-999.	273.	60.7	0.01	1.13	1.00	4.29	99.	10.0	280.4	2.0
13	01	01	1	19	-25.6	0.251	-9.000	-9.000	-999.	303.	69.6	0.01	1.13	1.00	4.58	88.	10.0	280.9	2.0
13	01	01	1	20	-10.7	0.129	-9.000	-9.000	-999.	120.	18.3	0.01	1.13	1.00	2.44	77.	10.0	278.8	2.0
13	01	01	1	21	-2.8	0.068	-9.000	-9.000	-999.	44.	10.5	0.02	1.13	1.00	1.13	51.	10.0	275.9	2.0
13	01	01	1	22	-6.6	0.100	-9.000	-9.000	-999.	76.	13.8	0.01	1.13	1.00	1.93	73.	10.0	275.4	2.0
13	01	01	1	23	-12.5	0.142	-9.000	-9.000	-999.	129.	22.3	0.02	1.13	1.00	2.45	357.	10.0	274.9	2.0
13	01	01	1	24	-3.1	0.072	-9.000	-9.000	-999.	47.	10.7	0.02	1.13	1.00	1.21	56.	10.0	272.5	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV

13 01 01 01 10.0 1 351. 3.36 276.0 99.0 -99.00 -99.00

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: US101N ***
INCLUDING SOURCE(S): 101N0067 , 101N0068 , 101N0069 , 101N0070 , 101N0071 ,
101N0072 , 101N0073 , 101N0074 , 101N0075 , 101N0076 , 101N0077 , 101N0078 , 101N0079 ,
101N0080 , 101N0081 , 101N0082 , 101N0083 , 101N0084 , 101N0085 , 101N0086 , 101N0087 ,
101N0088 , 101N0089 , 101N0090 , 101N0091 , 101N0092 , 101N0093 , 101N0094 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OPS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
537718.00	4219661.00	0.74019	537706.00	4219667.00	0.71384
537693.00	4219674.00	0.68713	537671.00	4219684.00	0.64420
537657.00	4219690.00	0.62015	537645.00	4219696.00	0.60176
537650.00	4219718.00	0.61116	537663.00	4219712.00	0.63258
537675.00	4219707.00	0.65404	537702.00	4219693.00	0.70831
537716.00	4219687.00	0.73928	537727.00	4219681.00	0.76473
537736.00	4219695.00	0.79059	537723.00	4219701.00	0.75856
537710.00	4219707.00	0.72823	537687.00	4219718.00	0.67868
537674.00	4219724.00	0.65287	537662.00	4219730.00	0.63133
537649.00	4219737.00	0.60909	537646.00	4219766.00	0.60110
537659.00	4219755.00	0.62497	537671.00	4219749.00	0.64688
537684.00	4219743.00	0.67195	537696.00	4219736.00	0.69676
537718.00	4219726.00	0.74663	537731.00	4219720.00	0.77916
537744.00	4219713.00	0.81414	537758.00	4219740.00	0.84904
537743.00	4219746.00	0.80044	537732.00	4219752.00	0.77127
537707.00	4219764.00	0.71077	537694.00	4219769.00	0.68571
537682.00	4219776.00	0.66293	537667.00	4219786.00	0.63376
537672.00	4219798.00	0.63794	537690.00	4219794.00	0.67005
537704.00	4219789.00	0.69799	537717.00	4219782.00	0.72800
537741.00	4219771.00	0.78904	537755.00	4219765.00	0.82919
537766.00	4219758.00	0.86379	537788.00	4219767.00	0.93421
537776.00	4219772.00	0.89181	537763.00	4219779.00	0.84908
537752.00	4219786.00	0.81542	537722.00	4219798.00	0.73601
537709.00	4219804.00	0.70519	537697.00	4219810.00	0.67902
537678.00	4219811.00	0.64299	537777.00	4219797.00	0.86377
537765.00	4219803.00	0.82733	537752.00	4219809.00	0.78946
537732.00	4219818.00	0.73569	537719.00	4219825.00	0.71062
537706.00	4219830.00	0.68585	537694.00	4219836.00	0.66054
537676.00	4219841.00	0.62382	537663.00	4219848.00	0.60125
537651.00	4219853.00	0.58068	537637.00	4219859.00	0.55842
537621.00	4219856.00	0.53496	537628.00	4219834.00	0.55465
537645.00	4219830.00	0.58233	537659.00	4219825.00	0.60567
537649.00	4219811.00	0.59535	537635.00	4219817.00	0.57089

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: US101S ***
INCLUDING SOURCE(S): 101S0001 , 101S0002 , 101S0003 , 101S0004 , 101S0005 ,
101S0006 , 101S0007 , 101S0008 , 101S0009 , 101S0010 , 101S0011 , 101S0012 , 101S0013 ,
101S0014 , 101S0015 , 101S0016 , 101S0017 , 101S0018 , 101S0019 , 101S0020 , 101S0021 ,
101S0022 , 101S0023 , 101S0024 , 101S0025 , 101S0026 , 101S0027 , 101S0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OPS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
537718.00	4219661.00	1.52893	537706.00	4219667.00	1.46962
537693.00	4219674.00	1.40965	537671.00	4219684.00	1.31211
537657.00	4219690.00	1.25937	537645.00	4219696.00	1.21928
537650.00	4219718.00	1.23924	537663.00	4219712.00	1.28631
537675.00	4219707.00	1.33420	537702.00	4219693.00	1.45709
537716.00	4219687.00	1.52804	537727.00	4219681.00	1.58726
537736.00	4219695.00	1.64623	537723.00	4219701.00	1.57225
537710.00	4219707.00	1.50252	537687.00	4219718.00	1.38974
537674.00	4219724.00	1.33143	537662.00	4219730.00	1.28319
537649.00	4219737.00	1.23469	537646.00	4219766.00	1.21709
537659.00	4219755.00	1.26894	537671.00	4219749.00	1.31778
537684.00	4219743.00	1.37499	537696.00	4219736.00	1.43183
537718.00	4219726.00	1.54643	537731.00	4219720.00	1.62106
537744.00	4219713.00	1.70122	537758.00	4219740.00	1.78823
537743.00	4219746.00	1.67733	537732.00	4219752.00	1.60838
537707.00	4219764.00	1.46787	537694.00	4219769.00	1.40835
537682.00	4219776.00	1.35528	537667.00	4219786.00	1.28939
537672.00	4219798.00	1.30000	537690.00	4219794.00	1.37384
537704.00	4219789.00	1.43783	537717.00	4219782.00	1.50702
537741.00	4219771.00	1.64943	537755.00	4219765.00	1.74484
537766.00	4219758.00	1.82728	537788.00	4219767.00	1.99664
537776.00	4219772.00	1.89405	537763.00	4219779.00	1.79169
537752.00	4219786.00	1.71173	537722.00	4219798.00	1.52587
537709.00	4219804.00	1.45412	537697.00	4219810.00	1.39407
537678.00	4219811.00	1.31262	537777.00	4219797.00	1.83704
537765.00	4219803.00	1.74846	537752.00	4219809.00	1.65863
537732.00	4219818.00	1.53240	537719.00	4219825.00	1.47075
537706.00	4219830.00	1.41177	537694.00	4219836.00	1.35376
537676.00	4219841.00	1.27185	537663.00	4219848.00	1.22068
537651.00	4219853.00	1.17478	537637.00	4219859.00	1.12522
537621.00	4219856.00	1.07397	537628.00	4219834.00	1.11534
537645.00	4219830.00	1.17633	537659.00	4219825.00	1.22843
537649.00	4219811.00	1.20502	537635.00	4219817.00	1.15073

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 101S0001 , 101S0002 , 101S0003 , 101S0004 , 101S0005 ,
101S0006 , 101S0007 , 101S0008 , 101S0009 , 101S0010 , 101S0011 , 101S0012 , 101S0013 ,
101S0014 , 101S0015 , 101S0016 , 101S0017 , 101S0018 , 101S0019 , 101S0020 , 101S0021 ,

101S0022 , 101S0023 , 101S0024 , 101S0025 , 101S0026 , 101S0027 , 101S0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OPS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
537718.00	4219661.00	2.26912	537706.00	4219667.00	2.18346
537693.00	4219674.00	2.09678	537671.00	4219684.00	1.95631
537657.00	4219690.00	1.87952	537645.00	4219696.00	1.82104
537650.00	4219718.00	1.85040	537663.00	4219712.00	1.91889
537675.00	4219707.00	1.98824	537702.00	4219693.00	2.16540
537716.00	4219687.00	2.26732	537727.00	4219681.00	2.35198
537736.00	4219695.00	2.43682	537723.00	4219701.00	2.33081
537710.00	4219707.00	2.23074	537687.00	4219718.00	2.06842
537674.00	4219724.00	1.98430	537662.00	4219730.00	1.91452
537649.00	4219737.00	1.84378	537646.00	4219766.00	1.81820
537659.00	4219755.00	1.89390	537671.00	4219749.00	1.96467
537684.00	4219743.00	2.04694	537696.00	4219736.00	2.12859
537718.00	4219726.00	2.29305	537731.00	4219720.00	2.40022
537744.00	4219713.00	2.51536	537758.00	4219740.00	2.63727
537743.00	4219746.00	2.47777	537732.00	4219752.00	2.37965
537707.00	4219764.00	2.17864	537694.00	4219769.00	2.09406
537682.00	4219776.00	2.01821	537667.00	4219786.00	1.92315
537672.00	4219798.00	1.93794	537690.00	4219794.00	2.04389
537704.00	4219789.00	2.13581	537717.00	4219782.00	2.23502
537741.00	4219771.00	2.43847	537755.00	4219765.00	2.57404
537766.00	4219758.00	2.69107	537788.00	4219767.00	2.93085
537776.00	4219772.00	2.78586	537763.00	4219779.00	2.64078
537752.00	4219786.00	2.52715	537722.00	4219798.00	2.26188
537709.00	4219804.00	2.15932	537697.00	4219810.00	2.07309
537678.00	4219811.00	1.95561	537777.00	4219797.00	2.70081
537765.00	4219803.00	2.57578	537752.00	4219809.00	2.44809
537732.00	4219818.00	2.26810	537719.00	4219825.00	2.18136
537706.00	4219830.00	2.09761	537694.00	4219836.00	2.01430
537676.00	4219841.00	1.89567	537663.00	4219848.00	1.82193
537651.00	4219853.00	1.75546	537637.00	4219859.00	1.68364
537621.00	4219856.00	1.60893	537628.00	4219834.00	1.66999
537645.00	4219830.00	1.75866	537659.00	4219825.00	1.83409
537649.00	4219811.00	1.80037	537635.00	4219817.00	1.72162

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: US101N ***
INCLUDING SOURCE(S): 101N0067 , 101N0068 , 101N0069 , 101N0070 , 101N0071 ,
101N0072 , 101N0073 , 101N0074 , 101N0075 , 101N0076 , 101N0077 , 101N0078 , 101N0079 ,
101N0080 , 101N0081 , 101N0082 , 101N0083 , 101N0084 , 101N0085 , 101N0086 , 101N0087 ,
101N0088 , 101N0089 , 101N0090 , 101N0091 , 101N0092 , 101N0093 , 101N0094 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OPS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
537718.00	4219661.00	28.56934	(15121517)	537706.00	4219667.00	27.96316	(15121517)
537693.00	4219674.00	27.30203	(15121517)	537671.00	4219684.00	26.17226	(15121517)
537657.00	4219690.00	25.45470	(15121517)	537645.00	4219696.00	24.58965	(15121517)
537650.00	4219718.00	25.42764	(16121117)	537663.00	4219712.00	25.40629	(16121117)
537675.00	4219707.00	26.02110	(15121517)	537702.00	4219693.00	27.57107	(15121517)
537716.00	4219687.00	28.43128	(15121517)	537727.00	4219681.00	29.14124	(15121517)
537736.00	4219695.00	29.88546	(16121117)	537723.00	4219701.00	29.18165	(16121117)
537710.00	4219707.00	28.48065	(16121117)	537687.00	4219718.00	27.23948	(16121117)
537674.00	4219724.00	26.54593	(16121117)	537662.00	4219730.00	26.03245	(16121117)
537649.00	4219737.00	25.58455	(16121117)	537646.00	4219766.00	26.41778	(15121517)
537659.00	4219755.00	26.09895	(15121517)	537671.00	4219749.00	26.19645	(15121517)
537684.00	4219743.00	27.06905	(15121517)	537696.00	4219736.00	27.90691	(15121517)
537718.00	4219726.00	28.73592	(15121517)	537731.00	4219720.00	29.10158	(16120317)
537744.00	4219713.00	30.07435	(16120317)	537758.00	4219740.00	32.63604	(17121318)
537743.00	4219746.00	32.65747	(15121517)	537732.00	4219752.00	32.02692	(15121517)
537707.00	4219764.00	30.46940	(15121517)	537694.00	4219769.00	29.45603	(15121517)
537682.00	4219776.00	28.43817	(15121517)	537667.00	4219786.00	27.58550	(15121517)
537672.00	4219798.00	27.80486	(15121517)	537690.00	4219794.00	28.91299	(15121517)
537704.00	4219789.00	29.91282	(15121517)	537717.00	4219782.00	30.87707	(15121517)
537741.00	4219771.00	32.59123	(15121517)	537755.00	4219765.00	33.54452	(15121517)
537766.00	4219758.00	34.24560	(15121517)	537788.00	4219767.00	36.01940	(14112417)
537776.00	4219772.00	35.03147	(15121517)	537763.00	4219779.00	34.05936	(15121517)
537752.00	4219786.00	33.18584	(15121517)	537722.00	4219798.00	30.86869	(15121517)
537709.00	4219804.00	29.86394	(15121517)	537697.00	4219810.00	28.93128	(15121517)
537678.00	4219811.00	27.73565	(15121517)	537777.00	4219797.00	36.39557	(14112417)
537765.00	4219803.00	34.65798	(14112417)	537752.00	4219809.00	33.21122	(14112417)
537732.00	4219818.00	31.05725	(14112417)	537719.00	4219825.00	29.80170	(14112417)
537706.00	4219830.00	28.67198	(16120317)	537694.00	4219836.00	27.71206	(16120317)
537676.00	4219841.00	26.67658	(14112417)	537663.00	4219848.00	26.00346	(14112417)
537651.00	4219853.00	25.41529	(14112417)	537637.00	4219859.00	24.85955	(14111617)
537621.00	4219856.00	24.67064	(14112417)	537628.00	4219834.00	24.22097	(15011117)
537645.00	4219830.00	25.12321	(15121517)	537659.00	4219825.00	26.07634	(15121517)
537649.00	4219811.00	26.04228	(15121517)	537635.00	4219817.00	25.01560	(15121517)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: US101S ***
INCLUDING SOURCE(S): 101S0001 , 101S0002 , 101S0003 , 101S0004 , 101S0005 ,
101S0006 , 101S0007 , 101S0008 , 101S0009 , 101S0010 , 101S0011 , 101S0012 , 101S0013 ,
101S0014 , 101S0015 , 101S0016 , 101S0017 , 101S0018 , 101S0019 , 101S0020 , 101S0021 ,
101S0022 , 101S0023 , 101S0024 , 101S0025 , 101S0026 , 101S0027 , 101S0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OPS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
537718.00	4219661.00	33.62025	(13122718)	537706.00	4219667.00	31.63064	(13122718)
537693.00	4219674.00	29.83866	(13122718)	537671.00	4219684.00	27.93989	(15121718)
537657.00	4219690.00	26.90007	(15121718)	537645.00	4219696.00	26.35510	(17121318)
537650.00	4219718.00	28.01210	(17121318)	537663.00	4219712.00	27.27838	(17121318)

537675.00	4219707.00	27.67903	(15121718)	537702.00	4219693.00	31.38034	(13122718)
537716.00	4219687.00	33.39334	(13122718)	537727.00	4219681.00	34.71840	(13122718)
537736.00	4219695.00	36.78602	(13122718)	537723.00	4219701.00	35.34015	(13122718)
537710.00	4219707.00	33.31752	(13122718)	537687.00	4219718.00	30.23538	(17121318)
537674.00	4219724.00	28.84699	(17121318)	537662.00	4219730.00	28.59183	(17121318)
537649.00	4219737.00	28.63182	(17121318)	537646.00	4219766.00	29.82691	(15121718)
537659.00	4219755.00	29.14841	(15121718)	537671.00	4219749.00	30.04509	(17121318)
537684.00	4219743.00	31.74613	(17121318)	537696.00	4219736.00	32.92099	(17121318)
537718.00	4219726.00	34.95228	(17121318)	537731.00	4219720.00	36.75589	(13122718)
537744.00	4219713.00	38.66745	(13122718)	537758.00	4219740.00	40.68443	(13122718)
537743.00	4219746.00	40.11952	(17121318)	537732.00	4219752.00	38.62998	(17121318)
537707.00	4219764.00	35.14712	(17121318)	537694.00	4219769.00	33.72564	(15121718)
537682.00	4219776.00	32.34358	(15121718)	537667.00	4219786.00	31.00900	(15121718)
537672.00	4219798.00	31.11200	(15121718)	537690.00	4219794.00	32.83741	(15121718)
537704.00	4219789.00	34.20933	(15121718)	537717.00	4219782.00	35.56355	(15121718)
537741.00	4219771.00	38.96024	(17121318)	537755.00	4219765.00	41.08448	(17121318)
537766.00	4219758.00	42.60957	(17121318)	537788.00	4219767.00	45.19143	(17121318)
537776.00	4219772.00	43.54661	(17121318)	537763.00	4219779.00	41.55188	(17121318)
537752.00	4219786.00	39.71047	(17121318)	537722.00	4219798.00	35.63830	(15121718)
537709.00	4219804.00	34.11237	(15121718)	537697.00	4219810.00	32.79385	(15121718)
537678.00	4219811.00	31.16145	(15121718)	537777.00	4219797.00	42.45142	(17121318)
537765.00	4219803.00	40.37560	(17121318)	537752.00	4219809.00	39.00132	(14112417)
537732.00	4219818.00	37.28257	(14112417)	537719.00	4219825.00	36.04835	(14112417)
537706.00	4219830.00	34.31028	(14112417)	537694.00	4219836.00	33.14817	(14112417)
537676.00	4219841.00	32.06118	(14112417)	537663.00	4219848.00	30.95982	(14112417)
537651.00	4219853.00	29.97547	(14112417)	537637.00	4219859.00	28.86137	(14112417)
537621.00	4219856.00	28.18727	(14112417)	537628.00	4219834.00	26.40010	(16120317)
537645.00	4219830.00	27.82772	(16120317)	537659.00	4219825.00	28.92919	(16120317)
537649.00	4219811.00	28.70946	(15121718)	537635.00	4219817.00	27.37197	(15121718)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 101S0001 , 101S0002 , 101S0003 , 101S0004 , 101S0005 ,
101S0006 , 101S0007 , 101S0008 , 101S0009 , 101S0010 , 101S0011 , 101S0012 , 101S0013 ,
101S0014 , 101S0015 , 101S0016 , 101S0017 , 101S0018 , 101S0019 , 101S0020 , 101S0021 ,
101S0022 , 101S0023 , 101S0024 , 101S0025 , 101S0026 , 101S0027 , 101S0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OPS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
537718.00	4219661.00	58.93619	(13122718)	537706.00	4219667.00	56.81697	(15121517)
537693.00	4219674.00	55.41193	(15121517)	537671.00	4219684.00	53.27575	(15121517)
537657.00	4219690.00	51.70796	(15121517)	537645.00	4219696.00	49.99469	(15121517)
537650.00	4219718.00	50.44219	(15121517)	537663.00	4219712.00	51.54301	(15121517)
537675.00	4219707.00	52.95719	(15121517)	537702.00	4219693.00	56.43587	(16120317)
537716.00	4219687.00	58.43524	(16120317)	537727.00	4219681.00	60.16691	(16120317)
537736.00	4219695.00	64.03870	(13122718)	537723.00	4219701.00	61.66396	(13122718)
537710.00	4219707.00	58.03922	(13122718)	537687.00	4219718.00	54.89927	(16120317)
537674.00	4219724.00	53.30840	(16120317)	537662.00	4219730.00	51.72568	(16120317)
537649.00	4219737.00	51.98526	(15121718)	537646.00	4219766.00	53.50641	(15121718)

537659.00	4219755.00	53.31850	(15121718)	537671.00	4219749.00	53.89354	(15121718)
537684.00	4219743.00	56.62834	(17121318)	537696.00	4219736.00	59.25504	(17121318)
537718.00	4219726.00	63.30446	(17121318)	537731.00	4219720.00	63.87455	(13122718)
537744.00	4219713.00	67.86470	(13122718)	537758.00	4219740.00	73.12261	(17121318)
537743.00	4219746.00	71.29039	(17121318)	537732.00	4219752.00	68.43938	(17121318)
537707.00	4219764.00	62.91526	(15121718)	537694.00	4219769.00	60.52112	(15121718)
537682.00	4219776.00	58.00339	(15121718)	537667.00	4219786.00	55.90540	(15121517)
537672.00	4219798.00	56.95197	(15121517)	537690.00	4219794.00	59.30923	(15121517)
537704.00	4219789.00	61.28222	(15121517)	537717.00	4219782.00	63.61970	(15121718)
537741.00	4219771.00	68.88455	(17121318)	537755.00	4219765.00	72.72149	(17121318)
537766.00	4219758.00	75.70202	(17121318)	537788.00	4219767.00	80.35499	(17121318)
537776.00	4219772.00	77.13311	(17121318)	537763.00	4219779.00	73.37924	(17121318)
537752.00	4219786.00	70.49927	(14112417)	537722.00	4219798.00	64.14583	(14112417)
537709.00	4219804.00	61.65848	(14112417)	537697.00	4219810.00	59.59897	(15121517)
537678.00	4219811.00	57.23950	(15121517)	537777.00	4219797.00	77.38556	(14112417)
537765.00	4219803.00	74.70472	(14112417)	537752.00	4219809.00	72.21254	(14112417)
537732.00	4219818.00	68.33982	(14112417)	537719.00	4219825.00	65.85005	(14112417)
537706.00	4219830.00	62.89589	(14112417)	537694.00	4219836.00	60.82917	(14112417)
537676.00	4219841.00	58.73776	(14112417)	537663.00	4219848.00	56.96329	(14112417)
537651.00	4219853.00	55.39076	(14112417)	537637.00	4219859.00	53.66502	(14112417)
537621.00	4219856.00	52.85791	(14112417)	537628.00	4219834.00	50.43813	(14112417)
537645.00	4219830.00	52.05255	(16120317)	537659.00	4219825.00	53.88112	(16120317)
537649.00	4219811.00	53.77430	(15121517)	537635.00	4219817.00	51.75129	(15121517)

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OPS IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
US101N	1ST HIGHEST VALUE IS	0.93421 AT (537788.00, 4219767.00, 11.93, 60.98, 1.50)	DC	
	2ND HIGHEST VALUE IS	0.89181 AT (537776.00, 4219772.00, 11.92, 60.98, 1.50)	DC	
	3RD HIGHEST VALUE IS	0.86379 AT (537766.00, 4219758.00, 11.87, 60.98, 1.50)	DC	
	4TH HIGHEST VALUE IS	0.86377 AT (537777.00, 4219797.00, 13.97, 60.98, 1.50)	DC	
	5TH HIGHEST VALUE IS	0.84908 AT (537763.00, 4219779.00, 11.92, 60.98, 1.50)	DC	
	6TH HIGHEST VALUE IS	0.84904 AT (537758.00, 4219740.00, 10.84, 60.98, 1.50)	DC	
	7TH HIGHEST VALUE IS	0.82919 AT (537755.00, 4219765.00, 11.90, 60.98, 1.50)	DC	
	8TH HIGHEST VALUE IS	0.82733 AT (537765.00, 4219803.00, 13.88, 60.98, 1.50)	DC	
	9TH HIGHEST VALUE IS	0.81542 AT (537752.00, 4219786.00, 11.91, 60.98, 1.50)	DC	
	10TH HIGHEST VALUE IS	0.81414 AT (537744.00, 4219713.00, 9.15, 60.98, 1.50)	DC	
US101S	1ST HIGHEST VALUE IS	1.99664 AT (537788.00, 4219767.00, 11.93, 60.98, 1.50)	DC	
	2ND HIGHEST VALUE IS	1.89405 AT (537776.00, 4219772.00, 11.92, 60.98, 1.50)	DC	
	3RD HIGHEST VALUE IS	1.83704 AT (537777.00, 4219797.00, 13.97, 60.98, 1.50)	DC	
	4TH HIGHEST VALUE IS	1.82728 AT (537766.00, 4219758.00, 11.87, 60.98, 1.50)	DC	
	5TH HIGHEST VALUE IS	1.79169 AT (537763.00, 4219779.00, 11.92, 60.98, 1.50)	DC	
	6TH HIGHEST VALUE IS	1.78823 AT (537758.00, 4219740.00, 10.84, 60.98, 1.50)	DC	
	7TH HIGHEST VALUE IS	1.74846 AT (537765.00, 4219803.00, 13.88, 60.98, 1.50)	DC	
	8TH HIGHEST VALUE IS	1.74484 AT (537755.00, 4219765.00, 11.90, 60.98, 1.50)	DC	

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      9TH HIGHEST VALUE IS     1.71173 AT (  537752.00,  4219786.00,   11.91,   60.98,   1.50)  DC
     10TH HIGHEST VALUE IS     1.70122 AT (  537744.00,  4219713.00,    9.15,   60.98,   1.50)  DC

ALL     1ST HIGHEST VALUE IS     2.93085 AT (  537788.00,  4219767.00,   11.93,   60.98,   1.50)  DC
      2ND HIGHEST VALUE IS     2.78586 AT (  537776.00,  4219772.00,   11.92,   60.98,   1.50)  DC
      3RD HIGHEST VALUE IS     2.70081 AT (  537777.00,  4219797.00,   13.97,   60.98,   1.50)  DC
      4TH HIGHEST VALUE IS     2.69107 AT (  537766.00,  4219758.00,   11.87,   60.98,   1.50)  DC
      5TH HIGHEST VALUE IS     2.64078 AT (  537763.00,  4219779.00,   11.92,   60.98,   1.50)  DC
      6TH HIGHEST VALUE IS     2.63727 AT (  537758.00,  4219740.00,   10.84,   60.98,   1.50)  DC
      7TH HIGHEST VALUE IS     2.57578 AT (  537765.00,  4219803.00,   13.88,   60.98,   1.50)  DC
      8TH HIGHEST VALUE IS     2.57404 AT (  537755.00,  4219765.00,   11.90,   60.98,   1.50)  DC
      9TH HIGHEST VALUE IS     2.52715 AT (  537752.00,  4219786.00,   11.91,   60.98,   1.50)  DC
     10TH HIGHEST VALUE IS     2.51536 AT (  537744.00,  4219713.00,    9.15,   60.98,   1.50)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
             GP = GRIDPOLR
             DC = DISCCART
             DP = DISCPOLR
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 136
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                          *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***


                     ** CONC OF OPS     IN MICROGRAMS/M**3                    **

                                 DATE                                    NETWORK
GROUP ID                   AVERAGE CONC    (YYMMDDHH)         RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)   OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

US101N   HIGH   1ST HIGH VALUE IS    36.39557  ON 14112417: AT (  537777.00,  4219797.00,   13.97,   60.98,   1.50)  DC

US101S   HIGH   1ST HIGH VALUE IS    45.19143  ON 17121318: AT (  537788.00,  4219767.00,   11.93,   60.98,   1.50)  DC

ALL     HIGH   1ST HIGH VALUE IS    80.35499  ON 17121318: AT (  537788.00,  4219767.00,   11.93,   60.98,   1.50)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
             GP = GRIDPOLR
             DC = DISCCART
             DP = DISCPOLR
 *** AERMOD - VERSION 23132  ***   *** C:\LAKES_AERMOD\Wood Hollow Residences_Operations\Wood Hollow Reside ***      02/03/25
 *** AERMET - VERSION  18081 ***   *** Wood Hollow Residences Operations                          ***      12:14:34
                                                                                    PAGE 137
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of         0 Fatal Error Message(s)
 A Total of         2 Warning Message(s)
 A Total of       852 Informational Message(s)
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A Total of      43824 Hours Were Processed

A Total of        298 Calm Hours Identified

A Total of        554 Missing Hours Identified (  1.26 Percent)


  ******** FATAL ERROR MESSAGES ********
        ***  NONE  ***


  ********   WARNING MESSAGES   ********
ME W186   1823      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used         0.50
ME W187   1823      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

  ************************************
  *** AERMOD Finishes Successfully ***
  ************************************
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Appendix D

Air Quality and HRA Methodology

Air Quality and HRA Methodology

This methodology appendix describes the assumptions, calculations, and modeling programs used to quantitatively estimate air quality and health risk impacts from the construction and operation of the project. This would include the project's building characteristics, construction timeline and equipment list, traffic results, and sustainability features. See the Wood Hollow Residences Addendum EIR for air quality and health risk results.

Air Quality Emissions Analysis

Air pollutant emissions generated by project construction were estimated using CalEEMod version 2022.1. CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant emissions associated with construction from a variety of land use projects. CalEEMod allows for the use of standardized data (e.g., emission factors, trip lengths, meteorology, source inventory) provided by the various California air districts to account for local requirements and conditions, and/or user-defined inputs. The calculation methodology and input data used in CalEEMod can be found in the CalEEMod User's Guide Appendices C, D, and G (California Air Pollution Control Officers Associated 2022). The analysis reflects the details of the construction of the proposed project as described in the *Project Description*.

Construction

Project construction would primarily generate temporary criteria pollutant emissions from construction equipment operation on-site, construction worker vehicle trips to and from the site, and import of materials off-site. The project's building characteristics, construction timeline, and excavations quantities were provided by the applicant. The project would construct 66 single family housing and 24 surface parking spaces. Construction is scheduled to start on July 1, 2026, 2026 and finish on July 31, 2029.

CalEEMod provides assumptions for equipment lists and vehicle trips based on the applicant-provided land uses. The project would involve the demolition of approximately 140,805 square feet of existing office building material and removal of approximately 146,000 square feet of asphalt surfaces during the demolition phase. It is assumed that the asphalt surfaces would be four inches of depth, requiring approximately 2.85 additional hauling trips per day during the demolition phase.[1] The project is anticipated to export approximately 8,500 cubic yards of soil material during the demolition phase and 6,200 cubic yards during the grading phase. The analysis assumes that construction equipment used would be diesel-powered. The project would comply with applicable regulatory standards, such as BAAQMD's Basic Best Management Practices for Construction-Related Fugitive Dust Emissions and Regulation 8 Rule 3, Architectural Coating. In addition, the proposed project would incorporate the Final EIR's Mitigation Measure AQ-1, which would reduce construction emissions.

1 The volume of asphalt surfaces removed (cubic feet) = (Length x Width x Depth); Volume of asphalt surfaces removed (cubic yards) = ((145,997 sf feet * 4 inches)/27 cubic feet per yard). Hauling Trips per day = ((1,802 cubic yards/16 hauling truck capacity) *2 one-way trips per haul trip)/79 demolition days = 2.85 hauling trips per day.

Operation

Operational emissions would arise from mobile sources, energy use, and area sources. Bay Area Air District (BAAD) has developed operational screening criteria indicating that the operational emissions are unlikely to exceed significant thresholds. The proposed project, which includes 66 dwelling units, does not involve stationary engines or industrial sources, and its operational activities would not overlap with construction-related activities. Therefore, the project's operational activities meets the operational screening criteria, such as constructing fewer than 421 single family residences, suggesting that operational emissions are unlikely to exceed significant thresholds. This eliminates the need for a detailed assessment. Thus, the operational impacts of the proposed project are discussed qualitatively.

Health Risk Assessment

The greatest potential for toxic air contaminants (TAC) emissions during construction and operations of the project would be diesel particulate matter (DPM) emissions associated with heavy-duty equipment during project construction, and from diesel-fueled trucks traveling on Highway 101 North and South during operations. In addition, incidental amounts of toxic substances such as oils, solvents, and paints would be used. These products would comply with all applicable BAAD rules for their manufacture and use. The proposed project would be subject to several BAAD rules designed to limit exposure to TACs during construction activities.

The construction and operational HRA was performed in accordance with the revised Office of Environmental Health Hazzard Assessment (OEHHA) *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (OEHHA 2015) and BAAD's *Health Risk Assessment Modeling Protocol* (BAAD 2020). The OEHHA Guidance considers the sensitivity of children to TAC emissions, different breathing rates, and time spent at home. Children have a higher breathing rate compared to adults and would likely spend more time at home in nearby residences resulting in longer exposure durations.

Cancer Risk Background

Health risk impacts are assessed using health risk calculation methodology consistent with the 2015 OEHHA Guidance. This health risk assessment addresses construction and operational DPM emissions and the effects on nearby sensitive uses.

Health impacts are evaluated using a dose-response assessment, which describes the relationship between the level of exposure to a substance (i.e., the dose) and the incidence or occurrence of injury (i.e., the response). To determine the total dose to off-site sensitive receptors, the applicable pathways of exposure should be identified. The applicable exposure pathways (e.g., inhalation) are identified for the emitted substances, and the receptor locations are identified. The applicable exposure pathways determine the exposure algorithms that are used to estimate dose. After the exposure pathways are identified, the applicable fate and transport algorithms are used to estimate concentrations in the applicable exposure media (e.g., air) and the exposure algorithms are used to determine the substance-specific dose. In accordance with the OEHHA Guidance, the inhalation pathway was evaluated for construction and operational related projects. For the inhalation pathway, the dose is directly proportional to the breathing rate. BAAD recommends using high end breathing rates (95th percentile) for children from the 3rd trimester through age two, and 80th percentile breathing rates for all other ages for residential exposures (BAAD 2020).

Once dose is calculated, cancer risk is calculated by accounting for cancer potency of the specific pollutant, age sensitivity, exposure duration, averaging time for lifetime cancer risk, and fraction of time spent at home (sensitive receptor). The cancer potency factor (CPF) is specific for each pollutant and is determined through peer-reviewed scientific studies. For example, the Scientific Review Panel recommends a CPF for DPM of 3.0×10^{-4} $(\mu g/m^3)^{-1}$ and a slope factor of 1.1 $(ppm\text{-}day)^{-1}$.[2] The age sensitivity factor (ASF)s account for greater susceptibility in early life as compared to adult exposure, starting from the third trimester of pregnancy to 16 years. The fraction of time at home (FAH) takes into account the time actually residing at the sensitive receptor location. FAH also takes into account time spent at home for various age groups. For example, newborns are expected to reside at home for longer periods of time compared to school-age children, and the elderly (retirees) are expected to spend more time at home compared to people of working age. FAH consistent with OEHHA guidelines were used for the analysis. There are no schools located within an isopleth of one in a million cancer risk. As a result, from the third trimester to less than 2 years of age, 85 percent of the time is spent at home. Between the ages of 2 and less than 16 years, 72 percent of the time is spent at home. For individuals aged 16 years and older, 73 percent of the time is spent at home.

Each age group has different exposure parameters which require cancer risk to be calculated separately for each age group. The estimation of cancer risk uses the following algorithms.

Risk = Dose inhalation × Inhalation CPF × ASF (Equation 1)

Where:

Dose inhalation = CAIR × DBR × A × EF × ED × FAH/AT (Equation 2)

Inhalation CPF = inhalation cancer potency factor

ASF = age-sensitivity factor

Where:

CAIR = concentration of compound in air in micrograms per cubic meter (µg/m3)

DBR = breathing rate in liter per kilogram of body weight per day (L/kg-body weighty/day)

A = inhalation absorption factor (1 for DPM)

EF = exposure frequency in days per year (day/year)

ED = exposure duration in years (year)

FAH = fraction of time at home

AT = averaging time period over which exposure is averaged in days (day)

The incremental increase in cancer risk is the result of multiplying the dose by the pollutant specific CPF values. Cancer risk is calculated by multiplying the inhalation dose by the inhalation CPF to yield the potential inhalation excess cancer risk. Cancer risk was evaluated for residences onsite and in the surrounding area. Specific modeling details and risk for all receptors as well as modeling output is included as part of Appendix B and C.

Non-Cancer Risk Background

Non-cancer chronic impacts were assessed based on the Hazard Index (HI). The evaluation of chronic impacts is based on the maximum annual emissions over a 12-month period of construction

[2] CPF and slope factors are built into the HARP2 model used for quantifying risk.

activity. The chronic HI is calculated by dividing the maximum modeled annual average concentration at the maximum impacted sensitive receptor by the recommended exposure limit (REL). The REL is the concentration at or below which no adverse health effects are anticipated. For example, OEHHA has recommended an ambient concentration of 5 µg/m^3 as the chronic inhalation REL for DPM exhaust. Therefore, a sensitive receptor exposed to an annual average DPM concentration of 5 µg/m^3 or less would not result in a chronic impact. Non-cancer chronic impacts affect specific target organ systems (also called toxicological endpoints), such as the eye, nervous system, reproductive system, and respiratory system. The chronic health impact with the maximum HI for the same target organ system is used for impact determination.

Construction Health Risk

As outlined in the Final EIR for the 2035 General Plan Update, Mitigation Measure AQ-2 requires that projects generating TAC emissions within 1,000 feet of the sensitive receptors must prepare an HRA. The nearest sensitive receptor is located approximately 170 feet southwest of the project site; therefore, an HRA was prepared to evaluate construction TAC impacts. Construction emissions rates were based on anticipated maximum daily emissions modeled using the CalEEMod version 2022.1. CalEEMod differentiates between particulate matter emitted from engine exhaust (i.e., DPM) and particulate matter emitted from ground disturbing activities (i.e., fugitive dust, which does not constitute DPM) (CAPCOA 2022). DPM concentration was estimated based on the PM_{10} exhaust emissions (not including fugitive PM_{10}) provided by CalEEMod, which are DPM emissions resulting from combustion of diesel-fueled vehicles and off-road equipment during construction. PM_{10} exhaust is composed of DPM and other air toxics; therefore, PM_{10} exhaust is a conservative estimate for DPM emissions estimates.

Dispersion Modeling

The purpose of this HRA is to determine the potential for construction to pose health risks to nearby sensitive receptors. This HRA estimates health risks associated with temporary emissions of TACs during construction of the project; specifically, construction activities would require the use of diesel-fueled heavy equipment and trucks, which would result in emissions of DPM. Dispersion modeling was performed using the USEPA-approved *American Meteorological Society/Environmental Protection Agency Regulatory Model* (AERMOD) with meteorological data from the representative BAAD monitoring station located near the project site. Napa County Airport is the nearest representative air monitoring station with meteorological data and is approximately 17 miles northeast of the project site. The project used NED GeoTiff digital terrain files for terrain data at resolution of 1 arc-second (10 meters). Vehicle exhaust emissions sources for the project were located on the project site corresponding to the areas of construction. The project would be constructed in a single phase and modeled as one area source in AERMOD, with an assumed release height of five meters, corresponding to the approximate height of off-road equipment mufflers from which exhaust emissions would be released (SCAQMD 2008). Line volume sources were used to represent the construction haul route. The presence of buildings and other structures disturbs downwind air flow. However, building downwash is only calculated for point sources and not appropriate to include in AERMOD for this HRA because there are no point sources in the analysis. AERMOD provides the concentration estimated by the air quality model based on an emission rate of one gram per second (OEHHA 2015). Construction emissions would not be generated during nighttime hours; therefore, the dispersion modeling allocates the emissions during active construction hours, approximately 11 hours per day between Monday to Friday and seven hours per

Saturday. Following BAAD guidance, the urban dispersion option was applied using an estimated population of 51,140 for Novato (DOF 2024). AERMOD was used to model 62 receptors representing existing sensitive receptors within 1,000 feet of the project site.

Health Risk

Health risk was calculated using in-house spreadsheets and is consistent with the OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines: *The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (OEHHA 2015) and BAAD's *Health Risk Assessment Modeling Protocol* (BAAD 2020). The nearest off-site residence to the project site is located approximately 170 feet southwest. The project would involve the addition of new sensitive receptors onsite.

Cumulative Analysis

The cumulative impact of the proposed project was assessed by evaluating all current and proposed substantial sources of TACs within 1,000 feet of the identified construction maximum exposed individual receptor (MEIR), which is surrounded by other sensitive receptors. Roadway sources near the construction MEIR include Highway 101, Wood Hollow Drive, and Redwood Boulevard. Rail sources near the construction MEIR include the Sonoma-Marin Area Rail Transit's Novato San Marin station, which travels through Novato along Highway 101 near the project site. There are no stationary sources within 1,000 feet of the project site; therefore, stationary source was excluded from this analysis. Cumulative risk impacts to the MEIR from these sources were estimated as described below, in accordance with BAAQMD's *2022 CEQA Guidelines* (BAAQMD 2023). In addition, cumulative risk impacts were evaluated at modeled residential receptors. Residential receptors outside the MEIR were evaluated to ensure the proposed project would not increase background risk over BAAD's cumulative threshold.

Roadway and Rail TAC Impacts

Roadway and rail screening data layers provided by the BAAD estimate cancer risks, hazards, and $PM_{2.5}$ concentrations for all Bay Area highways and surface streets, as well as from diesel locomotives and select railyards (BAAD 2022a, 2022b, 2022c; BAAD 2024a, 2024b, 2024c). Health risks at the MEIR and other single-family residences surrounding the project site near Wood Hollow Drive and Redwood Boulevard were retrieved.

Operational Health Risk

Freeway Health Risk Calculations

As outlined in the Final EIR for the 2035 General Plan Update, Mitigation Measure AQ-2 requires that projects placing sensitive receptors within 1,000 feet of uses generating TACs, such as roadways with volumes of 10,000 average annual daily trips or greater, must prepare an HRA. The northern border of the project site is located approximately 800 feet west of Highway 101, which may pose a health risk for future project residents. Therefore, an HRA was prepared to evaluate roadway TAC impacts. The primary concern is the effect of DPM on sensitive uses. This analysis includes site-specific air dispersion modeling using AERMOD, along with mobile source TACs related to vehicle traffic on Highway 101. The traffic volume for Highway 101 North and Highway 101 South are based on the California Department of Transportation (Caltrans) Performance Measurement System (PeMS) for the year 2024. The PeMS data provides hourly flow rates either aggregated (as used for

the freeway segments) or by individual lane. This analysis evaluates the volume of truck trips near the project site, and it is assumed all trucks are diesel-fueled. Truck flow per hour were retrieved for segments in the City of Novato near Atherton Avenue. The flow rates are presented as total traffic and total truck traffic values by hour for each day of 2024. The data was then aggregated to obtain average hourly flow rates for 2024 (Caltrans 2025a).

DPM is the primary TAC of concern from mobile sources. Even though there are TACs associated with gasoline combustion from passenger vehicle traffic, health risk impacts are generally largely dominated from DPM emissions. Therefore, DPM was quantified using PM_{10} exhaust emission rates as the driver for potential cancer risk impacts.

Emission rates were obtained using CARB's on-road emission rates from the Emission Factor (EMFAC) 2021. Emission rates for heavy-heavy duty (HHD) trucks travelling 55 miles per hour (mph) on Highway 101 near the project vicinity were obtained (CARB 2025). HHD truck emission rates for the proposed project's operation year of 2029 were obtained. Trucks are required to travel at a maximum of 55 mph on California Highways, based on the California Vehicle Code (Caltrans 2025b).

With all of the above information, PM_{10} emission rates (in grams per second [g/s]) were calculated for each hour for the freeway segments identified. The maximum emission rates for each were identified for use in the in-house calculation spreadsheet. Hourly emission rates were then divided by the maximum hourly emission rate to develop hourly "scalars" for use as variable emission rates in air dispersion modeling. This expresses lower emission rates at hours when vehicles are traveling in much smaller amounts, like the middle of the night, when winds and air dispersion are also typically lower. Please refer to Appendix C for more information related to emissions calculations.

Dispersion Modeling

AERMOD was utilized to calculate the concentrations of mobile source emissions at the project site. The segments of Highway 101 within half a mile of the project site were modeled as line-volume sources in AERMOD. The line-volume source is a line segment with adjacently configured volume sources to represent vehicle travel along the mainlines. The widths of the mainline segments were measured in Google Earth. Using guidance from Santa Barbara County Air Pollution Control District's Modeling Guidelines for Health Risk Assessments, diesel trucks traveling along Highway 101 were modeled at a height of four meters and a plume height (i.e., highest point exhaust emissions would reach before drifting downwind) of 6.8 meters.

AERMOD provides X/Q (CHI/Q = chi/q = χ/q) values, which are the unitized concentrations estimated by the air quality model based on an emission rate of one gram per second. This was used for cancer risk calculations. Variable emissions for the mainline segments for "By Hour-Of-Day" were implemented using the scalars calculated as discussed above.

AERMOD was used to model 66 sensitive receptor locations onsite at the project site. Consistent with BAAD guidance, health risks at the sensitive receptors were analyzed using a flagpole height (i.e., average breathing height at ground level) of 1.5 meters at each residential building. The meteorological and terrain inputs used are consistent with those described in the construction AERMOD model.

Health Risk

The dose to which the receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance or substances in the environment and the extent of exposure that person has to the substance. Dose is positively correlated with time, and a

more extended exposure period would result in a higher exposure level for the maximally exposed individual. The risks estimated for a Maximally Exposed Individual are higher if a fixed exposure occurs over a more extended period. According to the OEHHA, health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 30-year exposure period. Health risk was calculated using in-house spreadsheets and is consistent with the *OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines: The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (OEHHA 2015) and BAAD's *Health Risk Assessment Modeling Protocol* (BAAD 2020).

Outputs from the air dispersion modeling for mainline segments were used with the emission rates developed from the PeMS data to determine ground level concentrations of DPM. Exposure durations for each age bin were determined. The exposure durations, in conjunction with the calculated ground level concentrations, inhalation dose risk factors and cancer potency factors DPM were used to calculate 30-year lifetime health risk as the modeled receptors. The 2022 California Energy Code Subchapter 7, Section 150(m) requires all new sensitive use structures constructed to install MERV 13 air filters in the building ventilation systems. Therefore, this analysis included an adjustment for the inclusion of MERV 13 filters, which remove approximately 85 percent for particle sizes 1.0-3.0 microns (i.e., $PM_{2.5}$) (USEPA 2024). Therefore, this analysis conservatively assumes approximately 50 percent of DPM emissions would be reduced with the implementation of MERV 13 air filters.

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Appendix E

Tree Inventory Report

July 26, 2024

Align Real Estate
123 Mission Street, 7th Floor
San Francisco, California 94105

Attention: Mr. Logan Williams

RE: Tree Inventory Report
100 Wood Hollow Drive, City of Novato, California
APN: 125-202-17

Dear Mr. Williams:

1. INTRODUCTION

This letter-report has been prepared to present the results of Monk & Associates, Inc. (M&A) tree inventory conducted on the 100 Wood Hollow Drive project site in the City of Novato, California (Figures 1-3). Align Real Estate requested M&A to inventory trees on the project site within the development footprint and a 20-foot buffer around the development footprint (herein considered the "survey area") (see Figure 3) to satisfy requirements by the City of Novato for Development Plan Submittal. The requirement is to submit the following:

> *Species, trunk diameter, and drip line of all trees six inches (three inches if the site is considered to have native trees, forest, or woodland resources) or more in trunk diameter measured 24 inches above ground level.*

The City of Novato regulates the removal or alteration of trees to preserve scenic beauty, maintain property values, minimize erosion problems, and maintain the attractiveness of the Novato area[1]. As such, as part of a permit application for any project, a tree inventory is required to be submitted to the City that shows the location, species, and diameter of all existing trees and noting which trees are proposed to be removed. This report details all existing trees within the survey area that are three inches or larger in diameter, however, does not address which trees are proposed for removal. Below, we present the methods and results of M&A's tree inventory conducted within the survey area.

2. SURVEY METHODS

M&A biologists Ms. Christy Owens, Ms. Stephanie Tornberg and Ms. Sarah McNamara conducted a tree inventory within the survey area on July 22, 2024, and Ms. McNamara, Ms. Tornberg and Ms. Zarina Pascetto of M&A finished the inventory on July 23, 2024. In accordance with the City of Novato requirements, as there are native trees on the project site, M&A noted species, trunk diameter, and health of all existing trees on site more than three inches in diameter measured at 24 inches above ground within the survey area. Each species was tagged with a tree tag for reference to the tree inventory table and all trees were mapped with a hand-held Trimble global positioning system (GPS) with submeter accuracy.

[1] City of Novato. 2014. Tree Removal Informational Handout. January 15, 2014.

3. PROJECT SITE DESCRIPTION

The survey area at 100 Wood Hollow Drive is mainly a developed parcel comprised of an office building, a large parking lot and outdoor amenities such as picnic tables, a Bocce ball court and small putting green. Landscape plants are scattered around the office building and throughout the parking lot. Dense tree canopy lines the east, south and west of the parking lot. A 20-foot buffer from the development includes a small amount of undeveloped hillslope with scattered oak trees and non-native annual grassland.

4. TREE INVENTORY RESULTS

M&A tagged 405 trees within the survey area. Each tree's health, species and DBH (at 24 inches) was recorded (Exhibits A-E and Table 1, attached). Table A below provides a summary of the species identified and the numbers of each species present.

Table A. Summary of Existing Trees in the 100 Wood Hollow Drive Survey Area

Scientific Name	Common Name	Number of Trees
*Acacia melanoxylon**	Australian blackwood	2
*Acer palmatum**	Japanese maple	2
*Alnus glutinosa**	Black alder	17
Arbutus unedo	Strawberry tree	1
*Betula papyrifera**	Canoe birch	7
*Cercis canadensis**	Eastern redbud	10
Chilopsis linearis	Desert willow	1
*Cinnamomum camphora**	Camphor tree	38
*Cornus kousa**	Kousa dogwood	1
*Crataegus monogyna**	Common hawthorn	1
*Crataegus pinnatifida**	Mountain hawthorn	6
*Fatsia japonica**	Paperplant	1
Frangula californica	Coffeeberry	3
Heteromeles arbutifolia	Toyon	2
*Lagerstroemia indica**	Crape myrtle	23
*Ligustrum japonicum**	Wax-leaf privet	80
*Magnolia liliiflora**	Lily magnolia	1
*Osmanthus heterophyllus**	Holly olive	1
Platanus racemosa	Western sycamore	1
*Platanus x hispanica**	London plane tree	51
*Podocarpus macrophyllus**	Buddhist pine	2
*Prunus cerasifera**	Cherry plum	9
*Pyrus calleryana**	Callery pear	5
Quercus agrifolia	Coast live oak	72
Quercus lobata	Valley oak	32

Scientific Name	Common Name	Number of Trees
Salix laevigata	Red willow	2
Sequoia sempervirens	Coast redwood	24
*Tristaniopsis laurina**	Water gum	6
Total		**405**

*Indicates a non-native species

A total of 29 tree species were identified in the survey area. Of the 29 species identified on the project site, 19 are non-native to California. The City of Novato considers any tree with a diameter of 24 inches or more a "Heritage Tree" regardless of it being a California native Thirteen (13) trees had a single trunk that was 24 inches or larger; these trees were all coast redwoods and valley oaks (native California species). Six other trees, three wax-leaf privets, one Australian blackwood, one valley oak and one desert willow had more than one trunk and the diameters of each trunk added together are greater than 24 inches, making them Heritage Trees. Thus, there are a total of 19 Heritage Trees on the project site. See Table 1, attached, for details regarding each tagged tree and Exhibits A-E for the location.

5. CONCLUSIONS

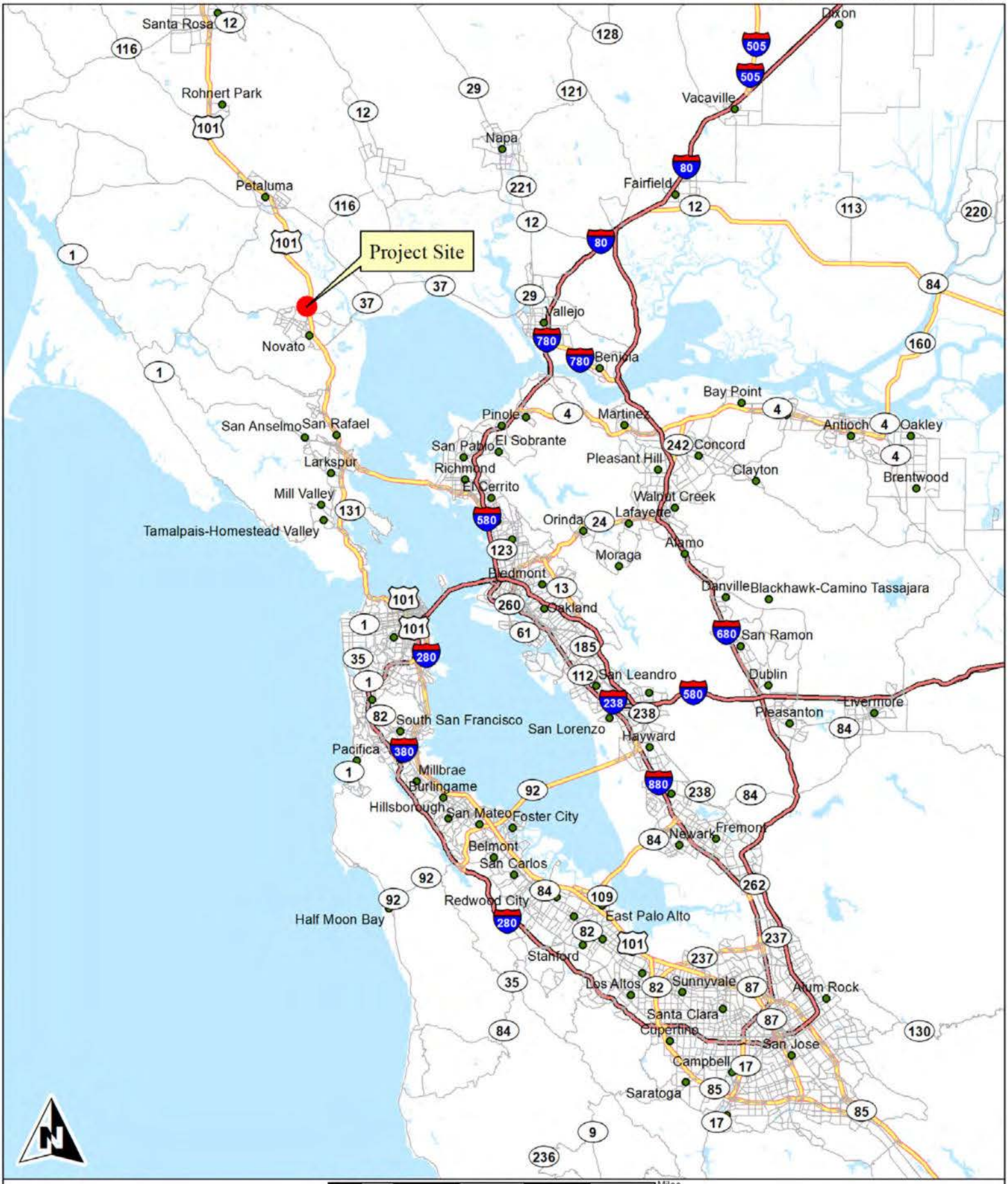
M&A conducted a tree survey on the 100 Wood Hollow Drive project site in July 2024 resulting in an inventory of 405 existing trees. Further information about each tree including health and a measurement of diameter at 24 inches was taken for each tree. This letter-report provides information regarding the species, number, health and size of existing trees on the project site but does not include an impacts analysis.

This concludes M&A's tree inventory report. Should you have any questions or wish to discuss any other aspect of this survey, please do not hesitate to contact me at (925) 947-4867 ext. 208 or smcnamara@monkassociates.com.

Sincerely,

Sarah McNamara
Project Biologist I

Attachments: Figures 1-3
Exhibits A-E
Table 1



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Walnut Creek, California 94595
(925) 947-4867

Figure 1. 100 Wood Hollow Drive Project Site
Regional Map
Novato, California

County: Marin
Map Preparation Date: July 24, 2024

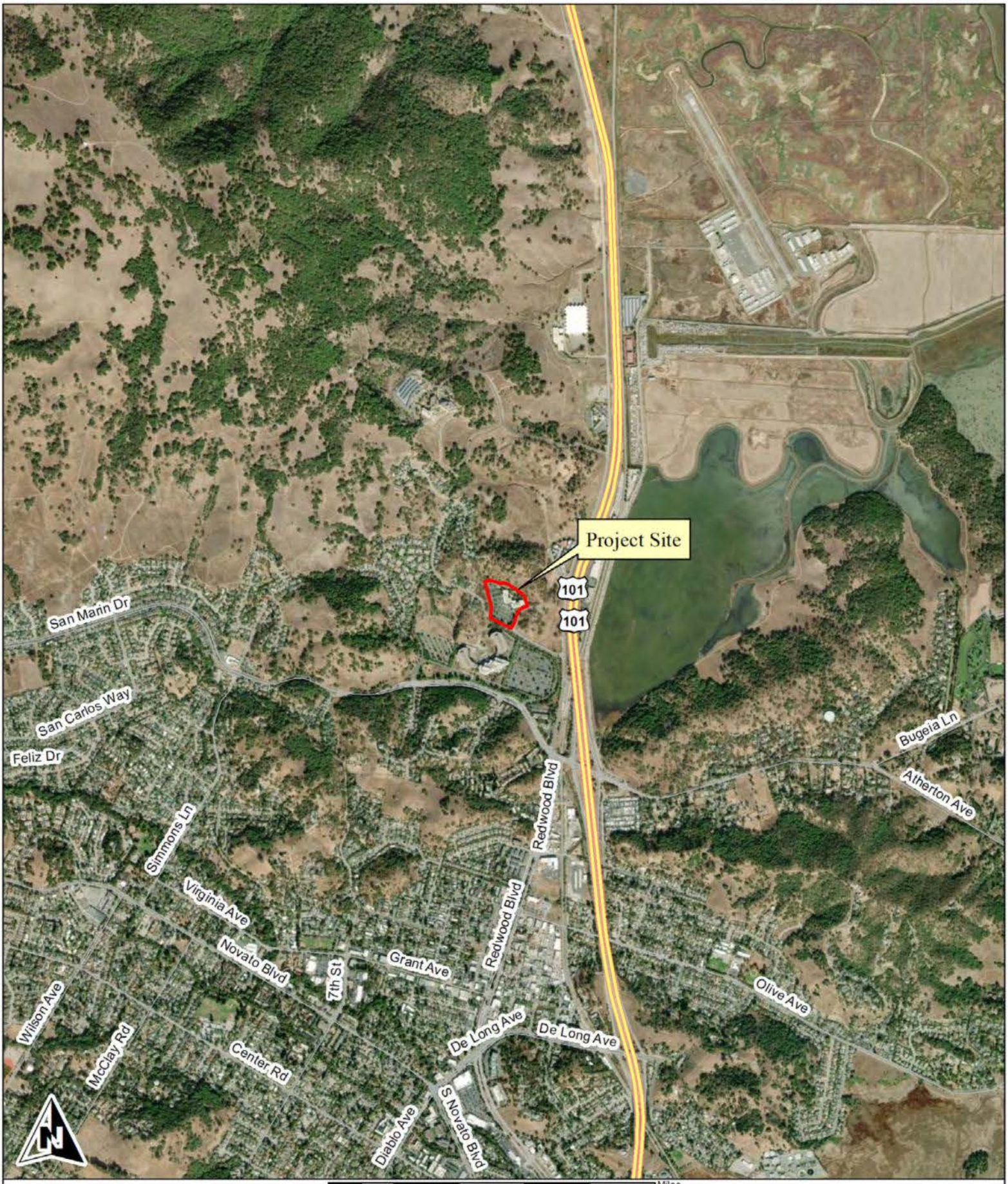

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Figure 2. 100 Wood Hollow Drive
Project Site Location Map
Novato, California

38.125315 -122.569725
Section: 6, 7; T3S R3E
7.5-Minute Petaluma River & Notato quadrangles
Aerial Photograph Source: ESRI
Map Preparation Date: July 24, 2024

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Figure 3. Aerial Photograph of the
100 Wood Hollow Drive Project Site
Novato, California

Aerial Photograph Source: ESRI
Map Preparation Date: June 24, 2024

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Exhibit A. Tree Inventory on the
100 Wood Hollow Drive Project Site
Novato, California

Aerial Photograph Source: ESRI
Map Preparation Date: July 25, 2024

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Exhibit B. Tree Inventory on the
100 Wood Hollow Drive Project Site
Novato, California

Aerial Photograph Source: ESRI
Map Preparation Date: July 24, 2024

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Exhibit C. Tree Inventory on the
100 Wood Hollow Drive Project Site
Novato, California

Aerial Photograph Source: ESRI
Map Preparation Date: July 24, 2024

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Exhibit D. Tree Inventory on the
100 Wood Hollow Drive Project Site
Novato, California

Aerial Photograph Source: ESRI
Map Preparation Date: July 24, 2024

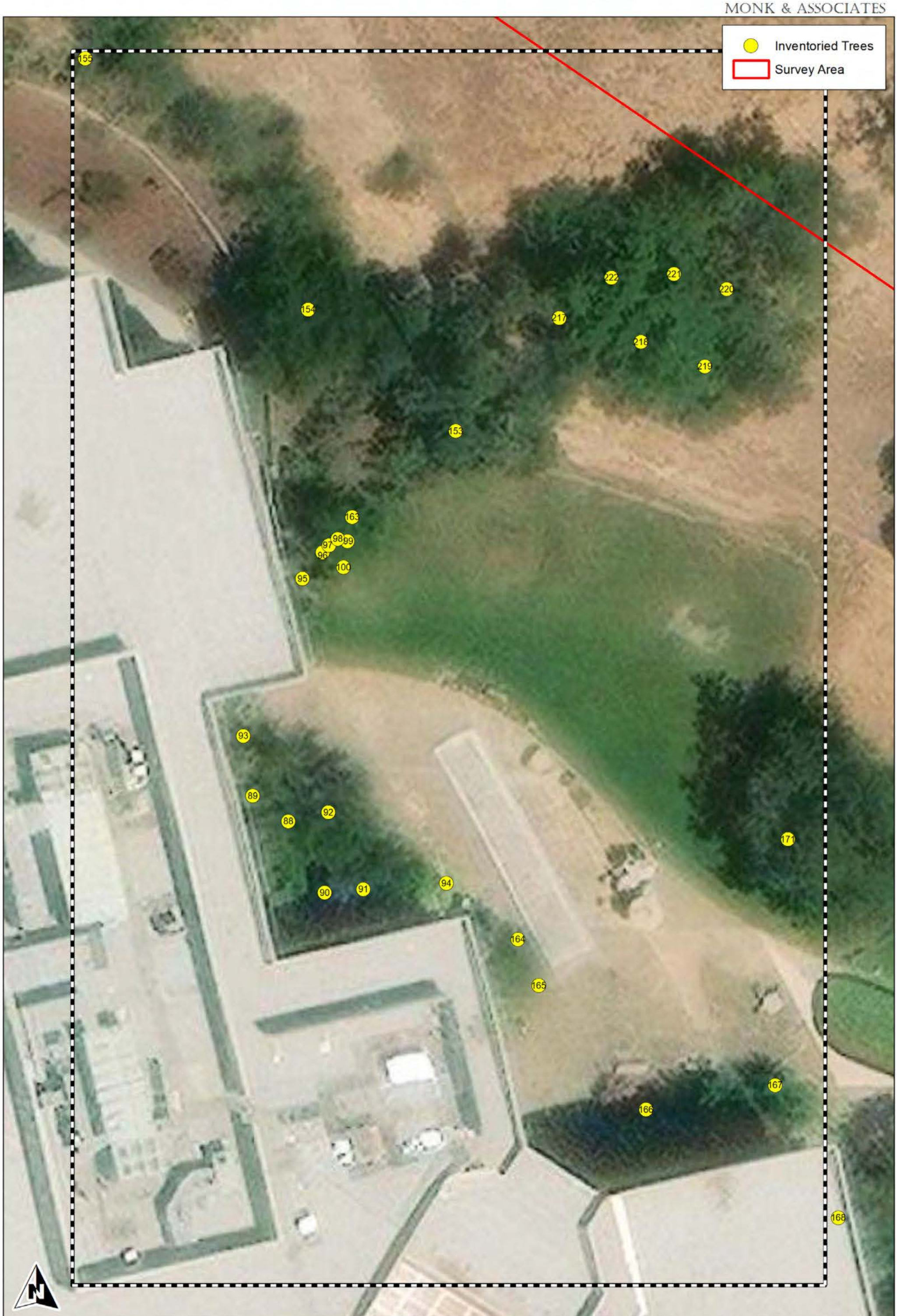

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Exhibit E. Tree Inventory on the
100 Wood Hollow Drive Project Site
Novato, California

Aerial Photograph Source: ESRI
Map Preparation Date: July 24, 2024

Table 1. Plant Species Inventoried at the 100 Wood Hollow Project Site

Tag #	Species (Scientific Name)	Species (Common Name)	DBH[1] (Total)	# Trunks	Health[2]	Notes
1	*Ligustrum japonicum*	Wax-leaf privet	1, 1, 1, 1, 1, 1, 2, 2 (10)	8	2	Good health and structure, few leaves on lower portion
2	*Ligustrum japonicum*	Wax-leaf privet	3.5, 3.5, 2, 2, 1 (12)	5	2	Good health and structure, few leaves on lower portion
3	*Ligustrum japonicum*	Wax-leaf privet	2, 1, 1, 1, 1 (6)	5	1	Good health and structure
4	*Acacia melanoxylon*	Australian blackwood	18.5, 18.5 (37)	2	2	Good overall health and structure
5	*Ligustrum japonicum*	Wax-leaf privet	1, 1, 1, 1, 1, 1, 1, 2, 2, 2 (13)	10	2	Good overall health and structure, lower portion is shaded with few leaves
6	*Ligustrum japonicum*	Wax-leaf privet	4, 2, 2 (8)	3	2	Good overall health and structure, lower portion is shaded with few leaves
7	*Ligustrum japonicum*	Wax-leaf privet	4, 3, 3, 2, 1 (13)	5	2	Good overall health and structure, lower portion is shaded with few leaves
8	*Ligustrum japonicum*	Wax-leaf privet	5, 2, 2, 3, 1, 1, 1, 1 (16)	8	2	Good overall health and structure, lower portion is shaded with few leaves
9	*Ligustrum japonicum*	Wax-leaf privet	4, 2.5, 2.5, 2.5, 2.5, 1, 1, 1, 1, 1 (19)	10	2	Good overall health and structure, lower portion is shaded with few leaves
10	*Ligustrum japonicum*	Wax-leaf privet	3, 3, 2, 2, 2, 2, 2, 1, 1, 1 (19)	10	2	Good overall health and structure, lower portion is shaded with few leaves
11	*Ligustrum japonicum*	Wax-leaf privet	3.5, 3.5, 2, 2, 2, 2, 1, 1 (17)	9	3	Good overall health and structure, lower half is shaded with few leaves
12	*Ligustrum japonicum*	Wax-leaf privet	2, 2, 2, 1, 1, 1, 1, 1 (11)	8	2	Good overall health and structure, lower portion is shaded with few leaves
13	*Ligustrum japonicum*	Wax-leaf privet	3, 3, 3, 3, 2, 2, 2, 2, 2, 1, 1, 1 (25)	12	1	Good health and structure
14	*Ligustrum japonicum*	Wax-leaf privet	4, 4, 2, 2, 2, 1 (15)	6	2	Good overall health and structure, lower portion is shaded with few leaves
15	*Ligustrum japonicum*	Wax-leaf privet	3.5, 2, 2, 2, 2, 1, 1, 1, 1, 1 (16.5)	10	2	Good overall health and structure, lower portion is shaded with few leaves
16	*Quercus agrifolia*	Coast live oak	3	1	3	Top half of tree looks healthy, lower portion has few leaves and a few dead twigs
17	*Ligustrum japonicum*	Wax-leaf privet	2, 2, 2, 3, 3, 3, 3, 4, 1, 1, 1, 1, 1, 1 (28)	14	2	Good overall health and structure, lower portion is shaded with few leaves
18	*Ligustrum japonicum*	Wax-leaf privet	4.5, 4.5, 4.5, 3, 3, 3, 3, 2, 2, 2, 1, 1, 1, 1, 1, 1 (38.5)	16	2	Good overall health and structure, lower portion is shaded with few leaves
19	*Alnus glutinosa*	Black alder	4.7	1	3	Thick foliage on top, few leaves and a few dead branches on bottom half
20	*Quercus agrifolia*	Coast live oak	5.5	1	2.5	Good structure, little foliage on bottom portion
21	*Quercus agrifolia*	Coast live oak	4.8	1	2	
22	*Quercus agrifolia*	Coast live oak	2.5, 3.1 (5.6)	2	2	
23	*Quercus agrifolia*	Coast live oak	4	1	3	Good structure, little foliage on bottom portion, few dead branches on bottom half
24	*Quercus agrifolia*	Coast live oak	3	1	3	Good structure, little foliage on bottom portion, few dead branches on bottom half
25	*Alnus glutinosa*	Black alder	6.8	1	2	
26	*Quercus agrifolia*	Coast live oak	5.3	1	2	
27	*Quercus agrifolia*	Coast live oak	4	1	2	
28	*Alnus glutinosa*	Black alder	6.3	1	2	
29	*Ligustrum japonicum*	Wax-leaf privet	4, 3, 3 (10)	3	2	
30	*Quercus agrifolia*	Coast live oak	3.5	1	2	
31	*Quercus agrifolia*	Coast live oak	6.6	1	2	
32	*Quercus agrifolia*	Coast live oak	10	1	2	
33	*Quercus agrifolia*	Coast live oak	3.8	1	2	
34	*Quercus agrifolia*	Coast live oak	9.7	1	2	
35	*Ligustrum japonicum*	Wax-leaf privet	3, 2, 1, 1, (7)	4	2	
36	*Quercus agrifolia*	Coast live oak	3.7	1	2	
37	*Quercus agrifolia*	Coast live oak	3.4	1	2	
38	*Quercus agrifolia*	Coast live oak	2.4, 4.5, 2.5 (9.4)	3	2	
39	*Quercus agrifolia*	Coast live oak	2, 1.5 (3.5)	2	2	
40	*Quercus agrifolia*	Coast live oak	2.4, 4.1, 5.4 (11.9)	3	1	
41	*Ligustrum japonicum*	Wax-leaf privet	2.4, 1.5, 1.5, 1, 1, 1, 1, 1, 1, 1, 1 (13.4)	11	2	Good health and structure, thinning foliage in bottom portion

Tag #	Species (Scientific Name)	Species (Common Name)	DBH[1] (Total)	# Trunks	Health[2]	Notes
42	*Quercus agrifolia*	Coast live oak	8.3	1	2.5	Good vigor, splits into 2 trunks ~3 ft high
43	*Quercus agrifolia*	Coast live oak	4.1, 2.7, 2.5, 2, 1, 1 (13.3)	6	3	Thick foliage on top, splits into multi-trunks low
44	*Quercus agrifolia*	Coast live oak	2.5, 1 (3.5)	2	4	Little foliage, thin trunks leaning
45	*Quercus agrifolia*	Coast live oak	5, 4.2 (9.2)	2	3	Leans into parking lot, splits low, decent foliage
46	*Salix laevigata*	Red willow	3.4	1	2.5	Little foliage until the very top
47	*Salix laevigata*	Red willow	4.5, 1, 1.5, 2, 4.9 (13.9)	5	3	Splits into 5 trunks low, leans strongly
48	*Quercus agrifolia*	Coast live oak	8.5	1	1	Good structure, good health
49	*Ligustrum japonicum*	Wax-leaf privet	1, 1, 1, 1, 1, 1, 1 (7)	7	2	Good foliage and health, leaning
50	*Quercus agrifolia*	Coast live oak	3.3, 2.5, 1.5, 1, 1 (9.3)	5	4	Good foliage, trunks growing together out of stump
51	*Ligustrum japonicum*	Wax-leaf privet	5.7, 1, 1, 1, 1 (9.7)	5	2	
52	*Quercus agrifolia*	Coast live oak	3.1, 1, 1, 1, 1, 1, 1 (9.1)	7	3.5	Growing out of old stump
53	*Quercus agrifolia*	Coast live oak	5.4	1	2	
54	*Salix gooddingii*	Goodding's black willow	8.5	1	1	
55	*Quercus agrifolia*	Coast live oak	4.5	1	2.5	Splits into 2 trunks ~3 ft, decent foliage
56	*Quercus agrifolia*	Coast live oak	8.3	1	2	Splits into 2 trunks ~3 ft, decent foliage
57	*Quercus agrifolia*	Coast live oak	10.7	1	1	
58	*Ligustrum japonicum*	Wax-leaf privet	1.8, 1.5, 1.5 (4.8)	3	1.5	
59	*Ligustrum japonicum*	Wax-leaf privet	2.7, 1 (3.7)	2	1.5	
60	*Salix gooddingii*	Goodding's black willow	11.4	1	4.5	Near dead, few leaves
62	*Ligustrum japonicum*	Wax-leaf privet	4, 3, 3 (10)	3	3	Stems and branches intertwined
63	*Quercus agrifolia*	Coast live oak	3.5	1	2.5	
64	*Quercus agrifolia*	Coast live oak	5.5	1	4	Little foliage and strongly leaning
65	*Quercus agrifolia*	Coast live oak	5.4	1	2	Good foliage, pruned
66	*Ligustrum japonicum*	Wax-leaf privet	2.7, 2.7, 2.7, 2, 2, (12.1)	5	1.5	
67	*Alnus glutinosa*	Black alder	5.7	1	2	Good foliage, pruned
68	*Ligustrum japonicum*	Wax-leaf privet	4	1	3	
69	*Ligustrum japonicum*	Wax-leaf privet	1.5, 1.5 (3)	2	2	Good foliage, pruned
70	*Ligustrum japonicum*	Wax-leaf privet	2.5, 2, 2, 1, 1 (8.5)	5	2	Good foliage, pruned
71	*Alnus glutinosa*	Black alder	8	1	1	
72	*Quercus agrifolia*	Coast live oak	1.4, 6.8 (8.2)	2	2	Slightly leaning into parking lot, otherwise good health and vigor
73	*Quercus agrifolia*	Coast live oak	10.4	1	1	Good health and structure, pruned on the side
74	*Quercus agrifolia*	Coast live oak	4.5	1	1.5	Slight lean, otherwise good health and thick foliage
75	*Quercus agrifolia*	Coast live oak	3.5, 2.5, 2.5 (8.5)	3	1.5	Slight lean, otherwise good health and thick foliage
76	*Quercus agrifolia*	Coast live oak	6.75	1	1	Trunk just offsite, leans over fence line onto property
77	*Quercus agrifolia*	Coast live oak	3.4, 2.5, 7.7, 4.5 (18.1)	4	1	Trunk just offsite, leans over fence line onto property
78	*Quercus agrifolia*	Coast live oak	7.8, 3 (10.8)	2	1	Trunk just offsite, leans over fence line onto property
79	*Quercus agrifolia*	Coast live oak	3	1	1	Trunk just offsite, leans over fence line onto property
80	*Quercus agrifolia*	Coast live oak	4.7, 5.7 (10.4)	2	1	Trunk just offsite, leans over fence line onto property
81	*Quercus agrifolia*	Coast live oak	3.5, 3, 3, 2, 2, 1, 1, 1, 1, 1, 1, 1 (20.5)	12	1	Trunk just offsite, leans over fence line onto property
82	*Quercus agrifolia*	Coast live oak	5.6	1	1	Trunk just offsite, leans over fence line onto property
83	*Quercus agrifolia*	Coast live oak	6.3	1	1	Trunk just offsite, leans over fence line onto property
84	*Quercus agrifolia*	Coast live oak	3.6	1	1	Trunk just offsite, leans over fence line onto property

Tag #	Species (Scientific Name)	Species (Common Name)	DBH[1] (Total)	# Trunks	Health[2]	Notes
85	*Quercus agrifolia*	Coast live oak	5.2, 5 (10.2)	2	1	Trunk just offsite, leans over fence line onto property
86	*Quercus agrifolia*	Coast live oak	8.5	1	1	Trunk just offsite, leans over fence line onto property. Tag placed in ground near ditch as nestling California towhee is in tree.
87	*Quercus agrifolia*	Coast live oak	2.5, 2.5, 2.5, 2.5, 1.5, 1 (12.5)	6	1	Trunk just offsite, leans over fence line onto property
88	*Betula papyrifera*	Canoe birch	6.9	1	1	
89	*Podocarpus macrophyllus*	Buddhist pine	2.6, 1.3, 1.3 (5.2)	3	1	
90	*Podocarpus macrophyllus*	Buddhist pine	3.7	1	1	
91	*Betula papyrifera*	Canoe birch	7.5	1	1	
92	*Betula papyrifera*	Canoe birch	8.3	1	1	
93	*Magnolia liliiflora*	Lily magnolia	3.2	1	1	
94	*Acer palmatum*	Japanese maple	3.6	1	1	
95	*Arbutus unedo*	Strawberry tree	5.5	1	1	
96	*Osmanthus heterophyllus*	Holly olive	3, 3, 2, 2, 2, 2, 1 (15)	7	1	
97	*Quercus agrifolia*	Coast live oak	1.7, 1.8 (3.5)	2	1	
98	*Quercus agrifolia*	Coast live oak	9.1	1	1	
99	*Ligustrum japonicum*	Wax-leaf privet	4.1, 2..4 (6.5)	2	1	
100	*Cinnamomum camphora*	Camphor tree	2.7, 2.6 (5.3)	2	1	
101	*Platanus x hispanica*	London plane tree	8.1	1	1	
102	*Platanus x hispanica*	London plane tree	9.2	1	1	
103	*Platanus x hispanica*	London plane tree	10.1	1	1	
104	*Quercus agrifolia*	Coast live oak	18.2	1	1	
105	*Quercus agrifolia*	Coast live oak	13.4	1	1	
106	*Quercus agrifolia*	Coast live oak	4.5	4	1	
107	*Quercus agrifolia*	Coast live oak	15.5	1	1	
108	*Platanus x hispanica*	London plane tree	7.8	1	1	
109	*Platanus x hispanica*	London plane tree	9.4	1	1	
110	*Platanus x hispanica*	London plane tree	10.2	1	1	
111	*Quercus agrifolia*	Coast live oak	14.7	1	1	
112	*Quercus lobata*	Valley oak	36.5	1	1	
113	*Quercus agrifolia*	Coast live oak	11.5	1	1	
114	*Platanus x hispanica*	London plane tree	4.3	1	1	
115	*Quercus agrifolia*	Coast live oak	4.8	3	1	
116	*Quercus agrifolia*	Coast live oak	7.8	1	1	
117	*Quercus agrifolia*	Coast live oak	8.3	1	1	
118	*Sequoia sempervirens*	Coast redwood	20.5	1	1	
119	*Sequoia sempervirens*	Coast redwood	16.3	1	1	
120	*Sequoia sempervirens*	Coast redwood	15.6	1	1	
121	*Quercus agrifolia*	Coast live oak	22.1	1	1	
122	*Quercus agrifolia*	Coast live oak	19.4	1	1	
123	*Betula papyrifera*	Canoe birch	4.4	1	1	
124	*Lagerstroemia indica*	Crape myrtle	6.9	1	1	
125	*Lagerstroemia indica*	Crape myrtle	6.4	1	1	
126	*Lagerstroemia indica*	Crape myrtle	6.3	1	1	

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127	*Betula papyrifera*	Canoe birch	7.8	1	1	
128	*Crataegus pinnatifida*	Mountain hawthorn	4.8	1	1	
129	*Crataegus pinnatifida*	Mountain hawthorn	4.3	1	1	
130	*Cinnamomum camphora*	Camphor tree	16.5	1	1	
131	*Lagerstroemia indica*	Crape myrtle	5.8	3	1	
132	*Lagerstroemia indica*	Crape myrtle	7.5	4	1	
133	*Tristaniopsis laurina*	Water gum	5.7	1	1	
134	*Lagerstroemia indica*	Crape myrtle	11.2	5	1	
135	*Tristaniopsis laurina*	Water gum	3	1	1	
136	*Lagerstroemia indica*	Crape myrtle	9.4	4	1	
137	*Tristaniopsis laurina*	Water gum	5.7	1	1	
138	*Lagerstroemia indica*	Crape myrtle	9.2	4	1	
139	*Lagerstroemia indica*	Crape myrtle	17.7	7	1	
140	*Lagerstroemia indica*	Crape myrtle	5.3	1	1	
141	*Lagerstroemia indica*	Crape myrtle	3	1	1	
142	*Lagerstroemia indica*	Crape myrtle	8.6	1	1	
143	*Lagerstroemia indica*	Crape myrtle	5.7	1	1	
144	*Lagerstroemia indica*	Crape myrtle	4.6	1	1	
145	*Lagerstroemia indica*	Crape myrtle	5.3	2	1	
146	*Lagerstroemia indica*	Crape myrtle	12.5	6	1	
147	*Lagerstroemia indica*	Crape myrtle	15.6	7	1	
148	*Tristaniopsis laurina*	Water gum	5.5	1	1	
149	*Lagerstroemia indica*	Crape myrtle	8.7	4	1	
150	*Tristaniopsis laurina*	Water gum	6.3	1	1	
151	*Lagerstroemia indica*	Crape myrtle	8.2	3	1	
152	*Tristaniopsis laurina*	Water gum	6.2	1	1	
153	*Quercus lobata*	Valley oak	25.4	1	1	
154	*Quercus agrifolia*	Coast live oak	14.2	1	1	
155	*Quercus agrifolia*	Coast live oak	1.8, 1.8 (3.6)	2	1	
156	*Quercus lobata*	Valley oak	15.7	1	1	
157	*Quercus lobata*	Valley oak	20.1	1	1	
158	*Quercus lobata*	Valley oak	16.3, 12.2 (28.5)	2	1	
159	*Quercus lobata*	Valley oak	16.9	1	1	
160	*Quercus agrifolia*	Coast live oak	7.3	1	1	
161	*Quercus lobata*	Valley oak	18.6	1	1	
162	*Quercus lobata*	Valley oak	17.3	1	1	
163	*Quercus agrifolia*	Coast live oak	2.2, 1.2 (3.4)	2	1	
164	*Crataegus pinnatifida*	Mountain hawthorn	5.4	1	1	
165	*Acer palmatum*	Japanese maple	2.5, 2 (4.5)	2	1	
166	*Crataegus monogyna*	Common hawthorn	3.9	1	1.5	
167	*Cornus kousa*	Kousa dogwood	4.9	1	2	
168	*Betula papyrifera*	Canoe birch	7.3	1	1	

Tag #	Species (Scientific Name)	Species (Common Name)	DBH[1] (Total)	# Trunks	Health[2]	Notes
169	*Betula papyrifera*	Canoe birch	8.1	1	1	
170	*Fatsia japonica*	Paperplant	2.6, 1.4, 1.5 (5.9)	3	5	
171	*Quercus lobata*	Valley oak	24.9	1	1	
172	*Quercus lobata*	Valley oak	24.5	1	1	
173	*Quercus lobata*	Valley oak	22.6	1	1	
174	*Quercus lobata*	Valley oak	19.6	1	1	
175	*Quercus lobata*	Valley oak	16.8	1	1	
176	*Quercus lobata*	Valley oak	16.2	1	1	
177	*Ligustrum japonicum*	Wax-leaf privet	2.7, 2, 1.8, 1.9, 1 (9.4)	5	1	Good foliage, pruned
178	*Ligustrum japonicum*	Wax-leaf privet	2.9, 2.1, 2, 1.7 (8.7)	4	1	Good foliage, pruned
179	*Ligustrum japonicum*	Wax-leaf privet	2.3, 2.5 (4.8)	2	1	Good foliage, pruned
180	*Ligustrum japonicum*	Wax-leaf privet	2.4, 2.7, 1.4, 1.2 (7.7)	4	1	Good foliage, pruned
181	*Ligustrum japonicum*	Wax-leaf privet	1, 1, 1.2, 1.2, 1.9, 1.5, 1.5 (9.3)	7	1	Good foliage, pruned
182	*Ligustrum japonicum*	Wax-leaf privet	2.1, 2, 2.6 (6.7)	3	1	Good foliage, pruned
183	*Ligustrum japonicum*	Wax-leaf privet	1, 1, 2.5 (4.5)	3	1	Good foliage, pruned
184	*Ligustrum japonicum*	Wax-leaf privet	1.5, 1.8, 2, 1.2 (6.5)	4	1	Good foliage, pruned
185	*Ligustrum japonicum*	Wax-leaf privet	1, 1.1, 2, 1.7 (5.8)	4	1	Good foliage, pruned
186	*Ligustrum japonicum*	Wax-leaf privet	1.2, 1.3, 1.5, 2.4, 2, 1 (9.9)	6	1	Good foliage, pruned
187	*Ligustrum japonicum*	Wax-leaf privet	1.9, 2.8, 1.1, 1.9 (7.7)	4	1	Good foliage, pruned
188	*Ligustrum japonicum*	Wax-leaf privet	2.1, 1.8, 1.3, 1.6, 1.1, 1.3 (9.2)	6	3	Sparse foliage, few dead branches, one split trunk, pruned
189	*Ligustrum japonicum*	Wax-leaf privet	2, 1.1, 2.8, 1.3, 1.4 (8.6)	5	1	Good foliage, pruned
190	*Ligustrum japonicum*	Wax-leaf privet	1.4, 1.6, 1, 1.1, 1 (6.1)	5	1	Good foliage, pruned
191	*Ligustrum japonicum*	Wax-leaf privet	2, 2.1, 1.3, 1.1, 2.2, 1 (9.7)	6	1	Good foliage, pruned
192	*Ligustrum japonicum*	Wax-leaf privet	1, 1.5, 1, 2.3, 1.2, 1.4 (8.4)	6	1	Good foliage, pruned
193	*Ligustrum japonicum*	Wax-leaf privet	1.7, 1, 1.3, 2, 3.1, 1 (10.1)	6	1	Good foliage, pruned
194	*Pyrus calleryana*	Callery pear	9.6	1	1	Good structure and health
195	*Pyrus calleryana*	Callery pear	7.1	1	1	Good structure and health
196	*Pyrus calleryana*	Callery pear	5.8	1	1	Good structure and health
197	*Pyrus calleryana*	Callery pear	8.2	1	1	Good structure and health
198	*Pyrus calleryana*	Callery pear	7.2	1	1	Good structure and health
199	*Sequoia sempervirens*	Coast redwood	6.9	1	1	
200	*Sequoia sempervirens*	Coast redwood	8.9	1	1	
201	*Ligustrum japonicum*	Wax-leaf privet	2.9, 1.7, 1, 1.5 (7.1)	4	1	
202	*Ligustrum japonicum*	Wax-leaf privet	2.7, 1.6, 1.9, 1.6, 2.1, 2.3, 1.2 (13.4)	7	1	
203	*Ligustrum japonicum*	Wax-leaf privet	2, 1.4, 2.1, 2.5, 1, 2.6, 1, 1.3, 1.9, 1.5 (17.3)	10	1	
204	*Ligustrum japonicum*	Wax-leaf privet	2.8, 1.5, 1.2 (5.5)	3	1	
205	*Ligustrum japonicum*	Wax-leaf privet	2.9, 2.7, 1.4, 1, 1 (9)	5	1	
206	*Ligustrum japonicum*	Wax-leaf privet	1.2, 2.3, 2.2, 1, 1.1 (7.8)	5	1	
207	*Ligustrum japonicum*	Wax-leaf privet	1, 1.3, 1.3, 1.2, 1, 2, 2.3, 1.7 (11.8)	8	1	
208	*Ligustrum japonicum*	Wax-leaf privet	1.2, 1.6, 1.3, 1, 1, 2.1, 2.3, 1, 1.7 (13.2)	9	1	
209	*Ligustrum japonicum*	Wax-leaf privet	2.8, 2.4, 2.6, 1.3, 1.2, 1 (11.3)	6	1	
210	*Crataegus pinnatifida*	Mountain hawthorn	4.4	1	1	

Tag #	Species (Scientific Name)	Species (Common Name)	DBH[1] (Total)	# Trunks	Health[2]	Notes
211	*Sequoia sempervirens*	Coast redwood	19.1	1	1	
212	*Sequoia sempervirens*	Coast redwood	11.3	1	1	
213	*Cinnamomum camphora*	Camphor tree	17.3	1	1	
214	*Lagerstroemia indica*	Crape myrtle	1.5, 1.5, 1, 1, 1 (6)	5	1	
215	*Lagerstroemia indica*	Crape myrtle	1.5, 1.5, 1.5, 1.5, 1 (7)	5	1	
216	*Lagerstroemia indica*	Crape myrtle	1.5, 1.5, 1.5, 1 (5.5)	4	1	
217	*Quercus lobata*	Valley oak	12	1	1	
218	*Quercus lobata*	Valley oak	19.3	1	1	
219	*Quercus lobata*	Valley oak	16.3	1	1	
220	*Quercus lobata*	Valley oak	15.5	1	1	
221	*Quercus lobata*	Valley oak	11.9	1	1	
222	*Quercus lobata*	Valley oak	11.5	1	1	
223	*Quercus lobata*	Valley oak	25.7	1	1	
224	*Quercus lobata*	Valley oak	22.2	1	1	
225	*Quercus lobata*	Valley oak	10.9	1	1	
226	*Quercus lobata*	Valley oak	17	1	1	
227	*Quercus lobata*	Valley oak	16.5	1	1	
228	*Quercus lobata*	Valley oak	19.5	1	1	
229	*Quercus lobata*	Valley oak	18.7	1	3	Dead top branches
230	*Quercus lobata*	Valley oak	20.2	1	1	
231	*Ligustrum japonicum*	Wax-leaf privet	9.8	6	1	Not tagged
232	*Ligustrum japonicum*	Wax-leaf privet	6.9	4	1	Not tagged
233	*Ligustrum japonicum*	Wax-leaf privet	7.7	7	1	Not tagged
234	*Ligustrum japonicum*	Wax-leaf privet	8.6	5	1	Not tagged
235	*Ligustrum japonicum*	Wax-leaf privet	7.1	4	1	Not tagged
236	*Ligustrum japonicum*	Wax-leaf privet	11.3	9	1	Not tagged
237	*Ligustrum japonicum*	Wax-leaf privet	9.9	6	1	Not tagged
238	*Ligustrum japonicum*	Wax-leaf privet	7.5	5	1	Not tagged
239	*Ligustrum japonicum*	Wax-leaf privet	11.2	8	1	Not tagged
240	*Ligustrum japonicum*	Wax-leaf privet	9.3	6	1	Not tagged
834	*Prunus cerasifera*	Cherry plum	13.4	1	1	Ok structure, good health, woodpecker damage
835	*Prunus cerasifera*	Cherry plum	16	1	1	Good health and structure
836	*Prunus cerasifera*	Cherry plum	8.9	1	1	Good health and structure
837	*Prunus cerasifera*	Cherry plum	9.8	1	1	Good health and structure
838	*Prunus cerasifera*	Cherry plum	7.6	1	1	Good health and structure
839	*Sequoia sempervirens*	Coast redwood	33.3	1	1	Good health and structure
840	*Sequoia sempervirens*	Coast redwood	30.1	1	1	Good health and structure
841	*Sequoia sempervirens*	Coast redwood	34	1	1	Good health and structure
842	*Sequoia sempervirens*	Coast redwood	25	1	1	Good health and structure
843	*Alnus glutinosa*	Black alder	17.3	1	1	Good health and structure
844	*Quercus lobata*	Valley oak	2, 3, 4 (9)	1	5	Near dead
845	*Quercus lobata*	Valley oak	5.7	1	4	Slight leaning, ok health

Tag #	Species (Scientific Name)	Species (Common Name)	DBH[1] (Total)	# Trunks	Health[2]	Notes
846	*Ligustrum japonicum*	Wax-leaf privet	2, 2, 1 (5)	3	1	Health good, structure poor
847	*Prunus cerasifera*	Cherry plum	3	1	1	Health good, structure good, overlapped branches
848	*Ligustrum japonicum*	Wax-leaf privet	1, 2 (3)	2	2	Health good, structure ok
849	*Prunus cerasifera*	Cherry plum	2, 2, 1, 1.5 (6.5)	4	1	Health good, structure ok
850	*Prunus cerasifera*	Cherry plum	4, 4, 4, 2, 4, 1 (19)	6	1	Health good, structure poor, cross branching, watersprouts
851	*Prunus cerasifera*	Cherry plum	7, 1, 1 (9)	3	4	Health ok, structure poor, crowded branches
852	*Quercus agrifolia*	Coast live oak	2.8, 2.6, 1.8, 1 (8.2)	4	1	Health good, structure good
853	*Ligustrum japonicum*	Wax-leaf privet	2.4, 3.3, 3.1, 1.2, 1 (11)	5	1	Good health, poor structure, crossed branches, watersprouts
854	*Sequoia sempervirens*	Coast redwood	24	1	1	Good health and structure
855	*Ligustrum japonicum*	Wax-leaf privet	1.5, 1.6 (3.1)	2	1	Good health and structure
856	*Sequoia sempervirens*	Coast redwood	18.9	1	1	Good health and structure
857	*Sequoia sempervirens*	Coast redwood	18.2	1	1	Good health and structure
858	*Sequoia sempervirens*	Coast redwood	18.7	1	1	Good health and structure
859	*Sequoia sempervirens*	Coast redwood	3	1	1	Good health and structure
860	*Sequoia sempervirens*	Coast redwood	17.6	1	1	Good health and structure
861	*Sequoia sempervirens*	Coast redwood	18.7	1	1	Good health and structure
862	*Sequoia sempervirens*	Coast redwood	21.2	1	1	Good health and structure
863	*Quercus lobata*	Valley oak	2.8, 1.9 (4.7)	2	1	Good health and structure
864	*Heteromeles arbutifolia*	Toyon	3.8, 2.6, 1.2 (7.6)	3	1	Good health and structure
865	*Sequoia sempervirens*	Coast redwood	20	1	1	Good health and structure
866	*Sequoia sempervirens*	Coast redwood	24.5	1	1	Good health and structure
867	*Sequoia sempervirens*	Coast redwood	29.5	1	1	Good health and structure
868	*Sequoia sempervirens*	Coast redwood	30.7	1	1	Good health and structure
869	*Frangula californica*	Coffeeberry	1.2, 1.5, 1.1 (3.8)	3	4	Poor health, few leaves
870	*Frangula californica*	Coffeeberry	3.1, 2.1, 2.4 (7.6)	3	4	Poor health, few leaves
871	*Frangula californica*	Coffeeberry	2.3, 2.3, 1 (5.6)	4	3	Poor health, few leaves
872	*Alnus glutinosa*	Black alder	4.1, 3.5, 4.7, 2.3 (14.6)	4	1	Good health, poor structure, crossed branches
873	*Quercus agrifolia*	Coast live oak	3, 3, 2 (8)	3	1	Good health and structure
874	*Acacia melanoxylon*	Australian blackwood	7	1	1	Good health and structure
875	*Alnus glutinosa*	Black alder	0.5, 0.5, 0.7, 0.4, 0.3, 0.8, 3, 2 (8.2)	8	3	Ok health, poor structure
876	*Ligustrum japonicum*	Wax-leaf privet	3, 1 (4)	2	1	Good health, hedged
877	*Ligustrum japonicum*	Wax-leaf privet	2.6, 3.6, 2.2, 2 (10.4)	4	1	Good health, hedged
878	*Alnus glutinosa*	Black alder	4	1	1	Good health and structure
879	*Quercus agrifolia*	Coast live oak	6.6	1	1	Good health, hedged
880	*Quercus agrifolia*	Coast live oak	4.5, 2.3 (6.8)	2	1	Good health, ok structure
881	*Quercus lobata*	Valley oak	5	1	1	Good health, ok structure
882	*Alnus glutinosa*	Black alder	2, 2, 1, 1, 1, 1, 1 (9)	7	4	Poor health and structure, few leaves, no central leader or trunk
883	*Ligustrum japonicum*	Wax-leaf privet	2.6, 2.3, 2.3, 1, 1, 0.6 (9.8)	6	4	Poor health, poor structure, hedged
884	*Alnus glutinosa*	Black alder	1.5, 1.5, 1.5, 1.2, 1 (6.7)	5	5	Dead
885	*Alnus glutinosa*	Black alder	7.2	1	5	Dead
886	*Ligustrum japonicum*	Wax-leaf privet	2.1, 2.4 (4.5)	2	3	Mid health, few leaves except at very top
887	*Ligustrum japonicum*	Wax-leaf privet	1.6, 1.7, 1.7, 1.5, 1.5, 1.5, 1.5 (11)	7	3	Mid health, few leaves except at very top

Tag #	Species (Scientific Name)	Species (Common Name)	DBH[1] (Total)	# Trunks	Health[2]	Notes
888	*Alnus glutinosa*	Black alder	6.8	1	5	Dead
889	*Ligustrum japonicum*	Wax-leaf privet	2.3, 1.3	2	3	Mid health, few leaves except at very top
890	*Ligustrum japonicum*	Wax-leaf privet	2.7, 1, 1, 1, 1, 1, 1 (8.7)	7	3	Ok health, mid-poor structure, no central leader
891	*Ligustrum japonicum*	Wax-leaf privet	1.6, 1.6, 1.6, 2.7 (7.5)	4	2	Good health, hedged
892	*Quercus agrifolia*	Coast live oak	3.5	1	1	Good health and structure
893	*Alnus glutinosa*	Black alder	7.4	1	5	Near dead, very few leaves
894	*Ligustrum japonicum*	Wax-leaf privet	2.5, 3, 1(6.5)	3	1	Good health, hedged
895	*Ligustrum japonicum*	Wax-leaf privet	3.4, 2.2, 2.2, 2 (9.8)	4	1	Good health, hedged
896	*Alnus glutinosa*	Black alder	5.5	1	4	Near dead, very few leaves
897	*Ligustrum japonicum*	Wax-leaf privet	1.8, 1.3 (3.1)	2	2	Good health and structure
898	*Heteromeles arbutifolia*	Toyon	1.7, 1.5 (3.2)	2	2	Good health and structure, leaning
899	*Salix gooddingii*	Goodding's black willow	13.8, 6.7 (20.5)	2	1	Good health and structure
900	*Quercus agrifolia*	Coast live oak	3.5	1	1	Good health and structure
901	*Salix gooddingii*	Goodding's black willow	10.1	1	1	Good health and structure
902	*Quercus agrifolia*	Coast live oak	4.6	1	1	Good health and structure
903	*Alnus glutinosa*	Black alder	3.6	1	5	Dead
904	*Alnus glutinosa*	Black alder	4.7	1	1	Good health and structure
905	*Platanus x hispanica*	London plane tree	7.7	1	1	Good health and structure
906	*Platanus x hispanica*	London plane tree	7.7	1	1	Good health and structure
907	*Cinnamomum camphora*	Camphor tree	5.9	1	1	Good health and structure
908	*Cinnamomum camphora*	Camphor tree	5.3	1	1	Good health and structure
909	*Platanus x hispanica*	London plane tree	8	1	1	Good health and structure
910	*Cinnamomum camphora*	Camphor tree	5.4	1	1	Good health and structure
911	*Cinnamomum camphora*	Camphor tree	6	1	1	Ok health, gall at base
912	*Cercis canadensis*	Eastern redbud	4.9	1	1	Good health and structure
913	*Cercis canadensis*	Eastern redbud	5.1	1	1	Good health and structure
914	*Cercis canadensis*	Eastern redbud	4.9	1	1	Good health and structure
915	*Cercis canadensis*	Eastern redbud	5.1	1	1	Good health and structure
916	*Cinnamomum camphora*	Camphor tree	5.8	1	1	Good health and structure
917	*Cinnamomum camphora*	Camphor tree	10.7	1	3	Good health and structure, gall at base
918	*Platanus x hispanica*	London plane tree	9.55	1	1	Good health and structure
919	*Platanus x hispanica*	London plane tree	10.15	1	1	Good health and structure
920	*Cinnamomum camphora*	Camphor tree	9.25	1	1	Good health and structure
921	*Platanus x hispanica*	London plane tree	9.6	1	1	Good health and structure
922	*Platanus x hispanica*	London plane tree	9	1	1	Good health and structure
923	*Platanus x hispanica*	London plane tree	7.5	1	1	Good health and structure
924	*Platanus x hispanica*	London plane tree	8.3	1	1	Good health and structure
925	*Cinnamomum camphora*	Camphor tree	6.75	1	1	Good health and structure
926	*Platanus x hispanica*	London plane tree	5.1	1	1	Good health and structure
927	*Platanus x hispanica*	London plane tree	6.1	1	1	Good health and structure
928	*Cinnamomum camphora*	Camphor tree	5.6	1	1	Good health and structure
929	*Cinnamomum camphora*	Camphor tree	6.3	1	1	Good health and structure

Tag #	Species (Scientific Name)	Species (Common Name)	DBH[1] (Total)	# Trunks	Health[2]	Notes
930	*Cercis canadensis*	Eastern redbud	4.1	1	1	Good health and structure
931	*Cercis canadensis*	Eastern redbud	4.2	1	1	Good health and structure
932	*Cercis canadensis*	Eastern redbud	5.1	1	1	Good health and structure
933	*Cercis canadensis*	Eastern redbud	4.7	1	1	Good health and structure
934	*Cinnamomum camphora*	Camphor tree	7.25	1	1	Good health and structure
935	*Cinnamomum camphora*	Camphor tree	5.65	1	1	Good health and structure
936	*Platanus x hispanica*	London plane tree	6.5	1	1	Good health and structure
937	*Platanus x hispanica*	London plane tree	6.2	1	1	Good health and structure
938	*Cinnamomum camphora*	Camphor tree	6.2	1	1	Good health and structure
939	*Cinnamomum camphora*	Camphor tree	6.2	1	1	Good health and structure
940	*Platanus x hispanica*	London plane tree	7.6	1	1	Good health and structure
941	*Platanus x hispanica*	London plane tree	7.8	1	1	Good health and structure
942	*Platanus x hispanica*	London plane tree	6.6	1	1	Good health and structure
943	*Platanus x hispanica*	London plane tree	7.5	1	1	Good health and structure
944	*Cinnamomum camphora*	Camphor tree	5.7	1	1	Good health and structure
945	*Cinnamomum camphora*	Camphor tree	6.6	1	1	Good health and structure
946	*Cinnamomum camphora*	Camphor tree	5.9	1	1	Good health and structure
947	*Cercis canadensis*	Eastern redbud	3.8	1	1	Good health and structure
948	*Cercis canadensis*	Eastern redbud	5.3	1	1	Good health and structure
949	*Cinnamomum camphora*	Camphor tree	7.7	1	1	Good health and structure
950	*Cinnamomum camphora*	Camphor tree	6	1	1	Good health and structure
951	*Platanus x hispanica*	London plane tree	8.7	1	1	Good health and structure
952	*Platanus x hispanica*	London plane tree	12	1	1	Good health and structure
953	*Platanus x hispanica*	London plane tree	9.2	1	1	Good health and structure
954	*Cinnamomum camphora*	Camphor tree	7.7	1	1	Good health and structure
955	*Cinnamomum camphora*	Camphor tree	10.5	1	1	Good health and structure
956	*Platanus x hispanica*	London plane tree	9.5	1	1	Good health and structure
957	*Platanus x hispanica*	London plane tree	12.9	1	1	Good health and structure
958	*Cinnamomum camphora*	Camphor tree	6.4	1	3	Good structure, ok health, a few dead branches
959	*Cinnamomum camphora*	Camphor tree	6.9	1	2	Good structure, a few dead twigs
960	*Platanus x hispanica*	London plane tree	14.4	1	1	Good health and structure
961	*Platanus x hispanica*	London plane tree	8.2	1	1	Good health and structure
962	*Platanus x hispanica*	London plane tree	7.3	1	1	Good health and structure
963	*Cinnamomum camphora*	Camphor tree	7.1	1	1	Good health and structure
964	*Platanus x hispanica*	London plane tree	13.5	1	1	Good health and structure
965	*Platanus x hispanica*	London plane tree	7.8	1	1	Good health and structure
966	*Platanus x hispanica*	London plane tree	7.8	1	1	Good health and structure
967	*Cinnamomum camphora*	Camphor tree	8.5	1	1	Good health and structure
968	*Cinnamomum camphora*	Camphor tree	7.2	1	1	Good health and structure
969	*Cinnamomum camphora*	Camphor tree	6.4	1	1	Good health and structure
970	*Platanus x hispanica*	London plane tree	9	1	1	Good health and structure
971	*Platanus x hispanica*	London plane tree	8.75	1	1	Good health and structure

Tag #	Species (Scientific Name)	Species (Common Name)	DBH[1] (Total)	# Trunks	Health[2]	Notes
972	*Platanus x hispanica*	London plane tree	6.5	1	1	Good health and structure
973	*Platanus x hispanica*	London plane tree	11.9	1	1	Good health and structure
974	*Cinnamomum camphora*	Camphor tree	3.7	1	1	Good health and structure
975	*Cinnamomum camphora*	Camphor tree	10.1	1	1	Good health and structure
976	*Platanus x hispanica*	London plane tree	9.2	1	1	Good health and structure
977	*Platanus x hispanica*	London plane tree	8.7	1	1	Good health and structure
978	*Cinnamomum camphora*	Camphor tree	7.2	1	1	Good health and structure
979	*Cinnamomum camphora*	Camphor tree	6.9	1	1	Good health and structure
980	*Platanus x hispanica*	London plane tree	11.3	1	1	Good health and structure
981	*Platanus x hispanica*	London plane tree	9	1	1	Good health and structure
982	*Cinnamomum camphora*	Camphor tree	6.7	1	1	Good health and structure
983	*Cinnamomum camphora*	Camphor tree	7	1	1	Good health and structure
984	*Platanus x hispanica*	London plane tree	6.4	1	1	Good health and structure
985	*Platanus racemosa*	Western sycamore	6.5	1	1	Good health and structure
986	*Cinnamomum camphora*	Camphor tree	5.1	1	1	Good health and structure
987	*Cinnamomum camphora*	Camphor tree	5.8	1	1	Good health and structure
988	*Platanus x hispanica*	London plane tree	6.9	1	1	Good health and structure
989	*Platanus x hispanica*	London plane tree	6.9	1	1	Good health and structure
990	*Platanus x hispanica*	London plane tree	14.4	1	1	Good health and structure
991	*Platanus x hispanica*	London plane tree	13.8	1	1	Good health and structure
992	*Platanus x hispanica*	London plane tree	7.8	1	1	Good health and structure
993	*Platanus x hispanica*	London plane tree	7.9	1	1	Good health and structure
994	*Platanus x hispanica*	London plane tree	12	1	1	Good health and structure
995	*Chilopsis linearis*	Desert willow	9.2, 9.6, 7.8 (26.6)	3	1	Good health and structure
996	*Crataegus pinnatifida*	Mountain hawthorn	3.9	1	1	Good health and structure
997	*Lagerstroemia indica*	Crape myrtle	4.4	1	1	Good health and structure
998	*Sequoia sempervirens*	Coast redwood	21.2	1	1	Good health and structure
999	*Crataegus pinnatifida*	Mountain hawthorn	4	1	1	Good health and structure

Notes

1 In accordance with the City of Novato's requirements, diameter-at-breast-height (DBH) was measured 24 inches above the ground.

2 Health ratings are 1-5. 1=Great health, 5=dead or near dead.

Appendix F

Special-Status Species Evaluation Tables

Appendix F

Special-Status Species Evaluation Tables

Special-Status Plant Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
Allium peninsulare var. *franciscanum* Franciscan onion	None/None G4G5T2/S2 1B.2	Perennial bulbiferous herb. Cismontane woodland, valley and foothill grassland. Clay, Serpentinite (often), volcanic. Elevations: 170-1000ft. (52-305m.) Blooms (Apr)May-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and native herbaceous communities with serpentinite or volcanic soils are not present.
Alopecurus aequalis var. *sonomensis* Sonoma alopecurus	FE/None G5T1/S1 1B.1	Perennial herb. Marshes and swamps, riparian scrub. Wet areas, marshes, and riparian banks, with other wetland species. Elevations: 15-1200ft. (5-365m.) Blooms May-Jul.	Not Expected	The site is developed with actively maintained ornamental landscaping, and marshes, swamps, and riparian communities are not present.
Amorpha californica var. *napensis* Napa false indigo	None/None G4T2/S2 1B.2	Perennial deciduous shrub. Broadleafed upland forest, chaparral, cismontane woodland. Openings in forest or woodland or in chaparral. 30-735 m. Elevations: 165-6560ft. (50-2000m.) Blooms Apr-Jul.	Not Expected	The site is developed with actively maintained ornamental landscaping, and deciduous upland forest and chaparral communities are not present.
Amsinckia lunaris bent-flowered fiddleneck	None/None G3/S3 1B.2	Annual herb. Cismontane woodland, coastal bluff scrub, valley and foothill grassland. Elevations: 10-1640ft. (3-500m.) Blooms Mar-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and coastal bluff scrub, and native foothill grassland communities are not present.
Arctostaphylos montana ssp. *montana* Mt. Tamalpais manzanita	None/None G3T3/S3 1B.3	Perennial evergreen shrub. Chaparral, valley and foothill grassland. Rocky, serpentinite. Elevations: 525-2495ft. (160-760m.) Blooms Feb-Apr.	Not Expected	The site is developed with actively maintained ornamental landscaping, and scrub, and native foothill grassland communities are not present.
Arctostaphylos virgata Marin manzanita	None/None G2/S2 1B.2	Perennial evergreen shrub. Broadleafed upland forest, chaparral, closed-cone coniferous forest, north coast coniferous forest. Granitic (sometimes), sandstone (sometimes). Elevations: 195-2295ft. (60-700m.) Blooms Jan-Mar.	Not Expected	The site is developed with actively maintained ornamental landscaping, and upland forest, chaparral, closed-cone coniferous forest communities are not present.
Astragalus pycnostachyus var. *pycnostachyus* coastal marsh milk-vetch	None/None G2T2/S2 1B.2	Perennial herb. Coastal dunes, coastal scrub, marshes and swamps. Mesic sites in dunes or along streams or coastal salt marshes. Elevations: 0-100ft. (0-30m.) Blooms (Apr)Jun-Oct.	Not Expected	The site is developed with actively maintained ornamental landscaping, and marshes, swamps, and riparian communities are not present.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
Astragalus tener var. *tener* alkali milk-vetch	None/None G2T1/S1 1B.2	Annual herb. Playas, valley and foothill grassland, vernal pools. Alkaline. Elevations: 5-195ft. (1-60m.) Blooms Mar-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and vernal pools with alkaline soils are not present.
Balsamorhiza macrolepis big-scale balsamroot	None/None G2/S2 1B.2	Perennial herb. Chaparral, cismontane woodland, valley and foothill grassland. Serpentinite (sometimes). Elevations: 150-5100ft. (45-1555m.) Blooms Mar-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and native grassland communities with serpentinite soils are not present.
Blennosperma bakeri Sonoma sunshine	FE/SE G1/S1 1B.1	Annual herb. Valley and foothill grassland, vernal pools. Vernal pools and swales. Elevations: 35-360ft. (10-110m.) Blooms Mar-May.	Not Expected	The site is developed with actively maintained ornamental landscaping, and vernal pools with alkaline soils are not present.
Brodiaea leptandra narrow-anthered brodiaea	None/None G3?/S3? 1B.2	Perennial bulbiferous herb. Broadleafed upland forest, chaparral, cismontane woodland, lower montane coniferous forest, valley and foothill grassland. Volcanic. Elevations: 360-3000ft. (110-915m.) Blooms May-Jul.	Not Expected	The site is developed with actively maintained ornamental landscaping, and upland forest, chaparral, cismontane woodland, lower montane coniferous forest, and native grassland communities with volcanic soils are not present.
Calamagrostis crassiglumis *Thurber's reed grass*	None/None G5Q/S2 2B.1	Perennial rhizomatous herb. Coastal scrub, marshes and swamps. Usually in marshy swales surrounded by grassland or coastal scrub. Elevations: 35-195ft. (10-60m.) Blooms May-Aug.	Not Expected	The site is developed with actively maintained ornamental landscaping, and no coastal marshes are present.
Calochortus tiburonensis *Tiburon mariposa-lily*	FT/ST G1/S1 1B.1	Perennial bulbiferous herb. Valley and foothill grassland. On open, rocky, slopes in serpentine grassland. Elevations: 165-490ft. (50-150m.) Blooms Mar-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and native grassland communities with rocky, slopes in serpentine soils are not present.
Cardamine angulata *seaside bittercress*	None/None G4G5/S3 2B.2	Perennial herb. Lower montane coniferous forest, north coast coniferous forest. Streambanks. Elevations: 50-3000ft. (15-915m.) Blooms (Jan)Mar-Jul.	Not Expected	The site is developed with actively maintained ornamental landscaping, and coniferous forests and streambanks are not present.
Carex lyngbyei *Lyngbye's sedge*	None/None G5/S3 2B.2	Perennial rhizomatous herb. Marshes and swamps. Elevations: 0-35ft. (0-10m.) Blooms Apr-Aug.	Not Expected	The site is developed with actively maintained ornamental landscaping, and marshes and swamps are not present.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
Castilleja affinis var. *neglecta* Tiburon paintbrush	FE/ST G4G5T1T2/S1S2 1B.2	Perennial herb (hemiparasitic). Valley and foothill grassland. Rocky serpentine sites. Elevations: 195-1310ft. (60-400m.) Blooms Apr-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and Rocky serpentine sites are not present.
Ceanothus confusus Rincon Ridge ceanothus	None/None G1/S1 1B.1	Perennial evergreen shrub. Chaparral, cismontane woodland, closed-cone coniferous forest. Serpentinite (sometimes), volcanic (sometimes). Elevations: 245-3495ft. (75-1065m.) Blooms Feb-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral, coniferous forests and serpentinite and volcanic soils are not present.
Ceanothus decornutus Nicasio ceanothus	None/None G1/S1 1B.2	Perennial shrub. Chaparral. Clay (sometimes), Rocky, serpentinite. Elevations: 770-950ft. (235-290m.) Blooms Mar-May.	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral, serpentinite soils are not present.
Ceanothus masonii Mason's ceanothus	None/SR G1/S1 1B.2	Perennial evergreen shrub. Chaparral. Serpentine ridges or slopes in chaparral or transition zone. Elevations: 755-1640ft. (230-500m.) Blooms Mar-Apr.	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral, serpentinite soils are not present.
Ceanothus sonomensis Sonoma ceanothus	None/None G2/S2 1B.2	Perennial evergreen shrub. Chaparral. Sandy, serpentine or volcanic soils. Elevations: 705-2625ft. (215-800m.) Blooms Feb-Apr.	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral with serpentinite and volcanic soils are not present.
Centromadia parryi ssp. *parryi* pappose tarplant	None/None G3T2/S2 1B.2	Annual herb. Chaparral, coastal prairie, marshes and swamps, meadows and seeps, valley and foothill grassland. Alkaline (often). Elevations: 0-1380ft. (0-420m.) Blooms May-Nov.	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral, coastal prairie, marshes and swamps, meadows and seeps are not present.
Chloropyron maritimum ssp. *palustre* Point Reyes salty bird's-beak	None/None G4?T2/S2 1B.2	Annual herb (hemiparasitic). Marshes and swamps. Usually in coastal salt marsh with Salicornia, Distichlis, Jaumea, Spartina, etc. Elevations: 0-35ft. (0-10m.) Blooms Jun-Oct.	Not Expected	The site is developed with actively maintained ornamental landscaping, and marshes and swamps, meadows and seeps are not present.
Chloropyron molle ssp. *molle* soft salty bird's-beak	FE/SR G2T1/S1 1B.2	Annual herb (hemiparasitic). Marshes and swamps. In coastal salt marsh with Distichlis, Salicornia, Frankenia, etc. Elevations: 0-10ft. (0-3m.) Blooms Jun-Nov.	Not Expected	The site is developed with actively maintained ornamental landscaping, and marshes and swamps, meadows and seeps are not present.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
Chorizanthe cuspidata var. *cuspidata* San Francisco Bay spineflower	None/None G2T1/S1 1B.2	Annual herb. Coastal bluff scrub, coastal dunes, coastal prairie, coastal scrub. Sandy. Elevations: 10-705ft. (3-215m.) Blooms Apr-Jul(Aug).	Not Expected	The site is developed with actively maintained ornamental landscaping, and coastal scrub, dune, and prairies are not present.
Chorizanthe valida Sonoma spineflower	FE/SE G1/S1 1B.1	Annual herb. Coastal prairie. Sandy soil. Elevations: 35-1000ft. (10-305m.) Blooms Jun-Aug.	Not Expected	The site is developed with actively maintained ornamental landscaping, and coastal prairie with sandy soil isNot present.
Cirsium hydrophilum var. *vaseyi* Mt. Tamalpais thistle	None/None G2T1/S1 1B.2	Perennial herb. Broadleafed upland forest, chaparral, meadows, and seeps. Serpentinite. Elevations: 785-2035ft. (240-620m.) Blooms May-Aug.	Not Expected	The site is developed with actively maintained ornamental landscaping, and upland forest and chaparral, serpentinite soils are not present.
Collinsia corymbosa round-headed collinsia	None/None G1/S1 1B.2	Annual herb. Coastal dunes. Elevations: 0-65ft. (0-20m.) Blooms Apr-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and coastal dunes with sandy soil isNot present.
Delphinium bakeri Baker's larkspur	FE/SE G1/S1 1B.1	Perennial herb. Broadleafed upland forest, coastal scrub, valley and foothill grassland. Only site occurs on NW-facing slope, on decomposed shale. Historically known from grassy areas along fencelines too. Elevations: 260-1000ft. (80-305m.) Blooms Mar-May.	Not Expected	The site is developed with actively maintained ornamental landscaping, and broadleafed upland forest, coastal scrub, valley and foothill grassland are not present.
Delphinium luteum golden larkspur	FE/SR G1/S1 1B.1	Perennial herb. Chaparral, coastal prairie, coastal scrub. North-facing rocky slopes. Elevations: 0-330ft. (0-100m.) Blooms Mar-May.	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral, coastal prairie, coastal scrub with north-facing rocky slopes are not present.
Dermatocarpon meiophyllizum silverskin lichen	None/None G3G5/S3 2B.3	Coastal prairie, Lower montane coniferous forest, North Coast coniferous forest, Subalpine coniferous forest, Upper montane coniferous forest. Lake Margins, Rocky, Streambanks 295-3495m. Blooms.	Not Expected	The site is developed with actively maintained ornamental landscaping, and coniferous forest, along lake margins and rocky streambanks are not present.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
Dirca occidentalis western leatherwood	None/None G2/S2 1B.2	Perennial deciduous shrub. Broadleafed upland forest, chaparral, cismontane woodland, closed-cone coniferous forest, north coast coniferous forest, riparian forest, riparian woodland. On brushy slopes, mesic sites; mostly in mixed evergreen and foothill woodland communities. Elevations: 80-1395ft. (25-425m.) Blooms Jan-Mar(Apr).	Not Expected	The site is developed with actively maintained ornamental landscaping, and mesic sites in broadleafed upland forest, chaparral, and cismontane woodland, are not present.
Downingia pusilla dwarf downingia	None/None GU/S2 2B.2	Annual herb. Valley and foothill grassland, vernal pools. Vernal lake and pool margins with a variety of associates. In several types of vernal pools. Elevations: 5-1460ft. (1-445m.) Blooms Mar-May.	Not Expected	The site is developed with actively maintained ornamental landscaping, and vernal pools are not present.
Eleocharis parvula small spikerush	None/None G5/S3 4.3	Perennial herb. Marshes and swamps. In coastal salt marshes. 1-. Elevations: 5-9910ft. (1-3020m.) Blooms (Apr)Jun-Aug(Sep).	Not Expected	The site is developed with actively maintained ornamental landscaping, and marshes and swamps, meadows and seeps are not present.
Entosthodon kochii Koch's cord moss	None/None G1/S1 1B.3	Moss. Cismontane woodland. Moss growing on soil on river banks. Elevations: 590-3280ft. (180-1000m.)	Not Expected	The site is developed with actively maintained ornamental landscaping, and streams and mesic sites in cismontane woodland are not present.
Eriogonum luteolum var. *caninum* Tiburon buckwheat	None/None G5T2/S2 1B.2	Annual herb. Chaparral, cismontane woodland, coastal prairie, valley and foothill grassland. Serpentine soils; sandy to gravelly sites. Elevations: 0-2295ft. (0-700m.) Blooms May-Sep.	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral, woodland and grasslands with serpentinite soils are not present.
Fissidens pauperculus minute pocket moss	None/None G3?/S2 1B.2	Moss. North coast coniferous forest. Moss growing on damp soil along the coast. In dry streambeds and on stream banks. Elevations: 35-3360ft. (10-1024m.)	Not Expected	The site is developed with actively maintained ornamental landscaping, and streams and mesic sites in coniferous forest are not present.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
Fritillaria lanceolata var. *tristulis* Marin checker lily	None/None G5T2/S2 1B.1	Perennial bulbiferous herb. Coastal bluff scrub, coastal prairie, coastal scrub. Occurrences reported from canyons and riparian areas as well as rock outcrops; often on serpentine. Elevations: 50-490ft. (15-150m.) Blooms Feb-May.	Not Expected	The site is developed with actively maintained ornamental landscaping, and scrub, chaparral, and prairie with serpentinite soils are not present.
Fritillaria liliacea fragrant fritillary	None/None G2/S2 1B.2	Perennial bulbiferous herb. Cismontane woodland, coastal prairie, coastal scrub, valley and foothill grassland. Often on serpentine; various soils reported though usually on clay, in grassland. Elevations: 10-1345ft. (3-410m.) Blooms Feb-Apr.	Not Expected	The site is developed with actively maintained ornamental landscaping, and cismontane woodland, coastal prairie, coastal scrub, and valley and foothill grassland with serpentine soils are not present.
Gilia capitata ssp. *chamissonis* blue coast gilia	None/None G5T2/S2 1B.1	Annual herb. Coastal dunes, coastal scrub. Elevations: 5-655ft. (2-200m.) Blooms Apr-Jul.	Not Expected	The site is developed with actively maintained ornamental landscaping, and coastal dunes and coastal scrub are not present.
Gilia capitata ssp. *tomentosa* woolly-headed gilia	None/None G5T2/S2 1B.1	Annual herb. Coastal bluff scrub, valley and foothill grassland. Rocky outcrops, sometimes serpentine. Elevations: 35-720ft. (10-220m.) Blooms May-Jul.	Not Expected	The site is developed with actively maintained ornamental landscaping, and coastal scrub, and valley and foothill grassland with rocky outcrops and serpentine soils are not present.
Gilia millefoliata dark-eyed gilia	None/None G2/S2 1B.2	Annual herb. Coastal dunes. Elevations: 5-100ft. (2-30m.) Blooms Apr-Jul.	Not Expected	The site is developed with actively maintained ornamental landscaping, and coastal dunes are not present.
Helianthella castanea Diablo helianthella	None/None G2/S2 1B.2	Perennial herb. Broadleafed upland forest, chaparral, cismontane woodland, coastal scrub, riparian woodland, valley and foothill grassland. Azonal soils, Partial shade (often), rocky (usually). Elevations: 195-4265ft. (60-1300m.) Blooms Mar-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and broadleafed upland forest, chaparral, cismontane woodland, coastal scrub, riparian woodland, and valley and foothill grassland with azonal and rocky soils are not present.
Hemizonia congesta ssp. *congesta* congested-headed hayfield tarplant	None/None G5T2/S2 1B.2	Annual herb. Valley and foothill grassland. Grassy valleys and hills, often in fallow fields; sometimes along roadsides. Elevations: 65-1835ft. (20-560m.) Blooms Apr-Nov.	Not Expected	The site is developed with actively maintained ornamental landscaping, and fallow fields and native valley and foothill grassland are not present.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
Hesperolinon congestum Marin western flax	FT/ST G1/S1 1B.1	Annual herb. Chaparral, valley and foothill grassland. In serpentine barrens and in serpentine grassland and chaparral. Elevations: 15-1215ft. (5-370m.) Blooms Apr-Jul.	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral, coastal scrub, and valley and foothill grassland with serpentine soils are not present.
Holocarpha macradenia Santa Cruz tarplant	FT/SE G1/S1 1B.1	Annual herb. Coastal prairie, coastal scrub, valley and foothill grassland. Light, sandy soil or sandy clay; often with nonnatives. Elevations: 35-720ft. (10-220m.) Blooms Jun-Oct.	Not Expected	The site is developed with actively maintained ornamental landscaping, and coastal prairie, coastal scrub, and valley and foothill grassland with clay soils are not present.
Horkelia tenuiloba thin-lobed horkelia	None/None G2/S2 1B.2	Perennial herb. Broadleafed upland forest, chaparral, valley and foothill grassland. Sandy soils; mesic openings. Elevations: 165-1640ft. (50-500m.) Blooms May-Jul(Aug).	Not Expected	The site is developed with actively maintained ornamental landscaping, and mesic sites in broadleafed upland forest, chaparral, and valley and foothill grassland with sandy soils are not present.
Kopsiopsis hookeri small groundcone	None/None G4?/S1S2 2B.3	Perennial rhizomatous herb (parasitic). North coast coniferous forest. Open woods, shrubby places, generally on Gaultheria shallon. Elevations: 295-2905ft. (90-885m.) Blooms Apr-Aug.	Not Expected	The site is developed with actively maintained ornamental landscaping, and *Gaultheria* sp. in coniferous forests are not present.
Lasthenia burkei Burke's goldfields	FE/SE G1/S1 1B.1	Annual herb. Meadows and seeps, vernal pools. Most often in vernal pools and swales. Elevations: 50-1970ft. (15-600m.) Blooms Apr-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and vernal pools are not present.
Lasthenia conjugens Contra Costa goldfields	FE/None G1/S1 1B.1	Annual herb. Cismontane woodland, playas, valley and foothill grassland, vernal pools. Vernal pools, swales, low depressions, in open grassy areas. Elevations: 0-1540ft. (0-470m.) Blooms Mar-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and vernal pools are not present.
Legenere limosa legenere	None/None G2/S2 1B.1	Annual herb. Vernal pools. In beds of vernal pools. 1-. Elevations: 5-2885ft. (1-880m.) Blooms Apr-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and vernal pools are not present.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
Leptosiphon jepsonii Jepson's leptosiphon	None/None G2G3/S2S3 1B.2	Annual herb. Chaparral, cismontane woodland, valley and foothill grassland. Open to partially shaded grassy slopes. On volcanics or the periphery of serpentine substrates. Elevations: 330-1640ft. (100-500m.) Blooms Mar-May.	Not Expected	The site is developed with actively maintained ornamental landscaping, and cismontane woodland, chaparral, and valley and foothill grassland with volcanic or serpentine soils are not present.
Lessingia micradenia var. *micradenia* Tamalpais lessingia	None/None G2T2/S2 1B.2	Annual herb. Chaparral, valley and foothill grassland. Usually on serpentine, in serpentine grassland or serpentine chaparral. Often on roadsides. Elevations: 330-1640ft. (100-500m.) Blooms (Jun)Jul-Oct.	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral, coastal prairie, coastal scrub, and valley and foothill grassland with serpentine soils are not present.
Lilium pardalinum ssp. *pitkinense* Pitkin Marsh lily	FE/SE G5T1/S1 1B.1	Perennial bulbiferous herb. Cismontane woodland, marshes and swamps, meadows and seeps. Saturated, sandy soils with grasses and shrubs. Elevations: 115-215ft. (35-65m.) Blooms Jun-Jul.	Not Expected	The site is developed with actively maintained ornamental landscaping, and marshes and swamps, meadows and seeps are not present.
Limnanthes vinculans Sebastopol meadowfoam	FE/SE G1/S1 1B.1	Annual herb. Meadows and seeps, valley and foothill grassland, vernal pools. Swales, wet meadows and marshy areas in valley oak savanna; on poorly drained soils of clays and sandy loam. Elevations: 50-1000ft. (15-305m.) Blooms Apr-May.	Not Expected	The site is developed with actively maintained ornamental landscaping, and vernal pools with clay soils are not present.
Lupinus sericatus Cobb Mountain lupine	None/None G2?/S2? 1B.2	Perennial herb. Broadleafed upland forest, chaparral, cismontane woodland, lower montane coniferous forest. In stands of knobcone pine-oak woodland, on open wooded slopes in gravelly soils; sometimes on serpentine. Elevations: 900-5005ft. (275-1525m.) Blooms Mar-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and upland forest, cismontane woodland, coastal prairie, coastal scrub, and valley and foothill grassland with gravelly or serpentine soils are not present.
Microseris paludosa marsh microseris	None/None G2/S2 1B.2	Perennial herb. Cismontane woodland, closed-cone coniferous forest, coastal scrub, valley and foothill grassland. Elevations: 15-1165ft. (5-355m.) Blooms Apr-Jun(Jul).	Not Expected	The site is developed with actively maintained ornamental landscaping, and cismontane woodland, closed-cone coniferous forest, coastal scrub, valley and foothill grassland are not present.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
Navarretia leucocephala ssp. *bakeri* Baker's navarretia	None/None G4T2/S2 1B.1	Annual herb. Cismontane woodland, lower montane coniferous forest, meadows and seeps, valley and foothill grassland, vernal pools. Vernal pools and swales; adobe or alkaline soils. Elevations: 15-5710ft. (5-1740m.) Blooms Apr-Jul.	Not Expected	The site is developed with actively maintained ornamental landscaping, and vernal pools with alkaline soils are not present.
Navarretia rosulata Marin County navarretia	None/None G2/S2 1B.2	Annual herb. Chaparral, closed-cone coniferous forest. Dry, open rocky places; can occur on serpentine. Elevations: 655-2085ft. (200-635m.) Blooms May-Jul.	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral and coniferous forest with serpentine soils are not present.
Pentachaeta bellidiflora white-rayed pentachaeta	FE/SE G1/S1 1B.1	Annual herb. Cismontane woodland, valley and foothill grassland. Open dry rocky slopes and grassy areas, often on soils derived from serpentine bedrock. Elevations: 115-2035ft. (35-620m.) Blooms Mar-May.	Not Expected	The site is developed with actively maintained ornamental landscaping, and cismontane woodland and valley and foothill grassland with serpentine soils are not present.
Plagiobothrys glaber hairless popcornflower	None/None GX/SX 1A	Annual herb. Marshes and swamps, meadows and seeps. Coastal salt marshes and alkaline meadows. Elevations: 50-590ft. (15-180m.) Blooms Mar-May.	Not Expected	The site is developed with actively maintained ornamental landscaping, and marshes and swamps, meadows and seeps are not present.
Plagiobothrys mollis var. *vestitus* Petaluma popcornflower	None/None G4?TX/SX 1A	Perennial herb. Marshes and swamps, valley and foothill grassland. Wet sites in grassland, possibly coastal marsh margins. Elevations: 35-165ft. (10-50m.) Blooms Jun-Jul.	Not Expected	The site is developed with actively maintained ornamental landscaping, and marshes and swamps, meadows and seeps are not present.
Pleuropogon hooverianus North Coast semaphore grass	None/ST G2/S2 1B.1	Perennial rhizomatous herb. Broadleafed upland forest, meadows and seeps, north coast coniferous forest. Wet grassy, usually shady areas, sometimes freshwater marsh; associated with forest environments. Elevations: 35-2200ft. (10-671m.) Blooms Apr-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and upland forest, meadows and seeps, north coast coniferous forest, and freshwater marsh, are not present.
Polygonum marinense Marin knotweed	None/None G2Q/S2 3.1	Annual herb. Marshes and swamps. Coastal salt marshes and brackish marshes. Elevations: 0-35ft. (0-10m.) Blooms (Apr)May-Aug(Oct).	Not Expected	The site is developed with actively maintained ornamental landscaping, and marshes and swamps, meadows and seeps are not present.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
Quercus parvula var. *tamalpaisensis* Tamalpais oak	None/None G4T2/S2 1B.3	Perennial evergreen shrub. Lower montane coniferous forest. Elevations: 330-2460ft. (100-750m.) Blooms Mar-Apr.	Not Expected	The site is developed with actively maintained ornamental landscaping, and lower montane coniferous forest is not present.
Sidalcea calycosa ssp. *rhizomata* Point Reyes checkerbloom	None/None G5T2/S2 1B.2	Perennial rhizomatous herb. Marshes and swamps. Freshwater marshes near the coast. Elevations: 10-245ft. (3-75m.) Blooms Apr-Sep.	Not Expected	The site is developed with actively maintained ornamental landscaping, and marshes and swamps, meadows and seeps are not present.
Sidalcea hickmanii ssp. *viridis* Marin checkerbloom	None/None G2TH/SH 1B.1	Perennial herb. Chaparral. Serpentine or volcanic soils; sometimes appears after burns. Elevations: 165-1410ft. (50-430m.) Blooms May-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral with serpentine or volcanic soils are not present.
Spergularia macrotheca var. *longistyla* long-styled sand-spurrey	None/None G5T2/S2 1B.2	Perennial herb. Marshes and swamps, meadows and seeps. Alkaline. Elevations: 0-835ft. (0-255m.) Blooms Feb-May.	Not Expected	The site is developed with actively maintained ornamental landscaping, and marshes and swamps, meadows and seeps with alkaline soils are not present.
Stebbinsoseris decipiens Santa Cruz microseris	None/None G2/S2 1B.2	Annual herb. Broadleafed upland forest, chaparral, closed-cone coniferous forest, coastal prairie, coastal scrub, valley and foothill grassland. Open areas in loose or disturbed soil, usually derived from sandstone, shale or serpentine, on seaward slopes. Elevations: 35-1640ft. (10-500m.) Blooms Apr-May.	Not Expected	The site is developed with actively maintained ornamental landscaping, and broadleafed upland forest, chaparral, closed-cone coniferous forest, coastal prairie, coastal scrub, valley and foothill grassland. with serpentine or shale soils are not present.
Streptanthus anomalus Mount Burdell jewelflower	None/None G1/S1 1B.1	Annual herb. Cismontane woodland. Openings, Serpentinite. Elevations: 165-490ft. (50-150m.) Blooms May-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and cismontane woodland with serpentine soils is not present.
Streptanthus batrachopus Tamalpais jewelflower	None/None G2/S2 1B.3	Annual herb. Chaparral, closed-cone coniferous forest. Talus serpentine outcrops. Elevations: 1000-2135ft. (305-650m.) Blooms Apr-Jul.	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral and closed-cone coniferous forest with serpentine soils are not present.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
Streptanthus glandulosus ssp. *niger* Tiburon jewelflower	FE/SE G4T1/S1 1B.1	Annual herb. Valley and foothill grassland. Shallow, rocky serpentine slopes. Elevations: 100-490ft. (30-150m.) Blooms May-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and valley and foothill grassland with serpentine soil is not present.
Streptanthus glandulosus ssp. *pulchellus* Mt. Tamalpais bristly jewelflower	None/None G4T2/S2 1B.2	Annual herb. Chaparral, valley and foothill grassland. Serpentine slopes. Elevations: 490-2625ft. (150-800m.) Blooms May-Jul(Aug).	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral and valley and foothill grassland with serpentine soils are not present.
Symphyotrichum lentum Suisun Marsh aster	None/None G2/S2 1B.2	Perennial rhizomatous herb. Marshes and swamps. Most often seen along sloughs with Phragmites, Scirpus, blackberry, Typha, etc. Elevations: 0-10ft. (0-3m.) Blooms (Apr)May-Nov.	Not Expected	The site is developed with actively maintained ornamental landscaping, and marshes, swamps, and sloughs are not present.
Trifolium amoenum two-fork clover	FE/None G1/S1 1B.1	Annual herb. Coastal bluff scrub, valley and foothill grassland. Sometimes on serpentine soil, open sunny sites, swales. Most recently cited on roadside and eroding cliff face. Elevations: 15-1360ft. (5-415m.) Blooms Apr-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and coastal bluff scrub and valley and foothill grassland with cliffs and serpentine soils are not present.
Trifolium hydrophilum saline clover	None/None G2/S2 1B.2	Annual herb. Marshes and swamps, valley and foothill grassland, vernal pools. Mesic, alkaline sites. Elevations: 0-985ft. (0-300m.) Blooms Apr-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and vernal pools with alkaline soils are not present.
Trifolium polyodon Pacific Grove clover	None/SR G1/S1 1B.1	Annual herb. Closed-cone coniferous forest, coastal prairie, meadows and seeps, valley and foothill grassland. Along small springs and seeps in grassy openings. Elevations: 15-1395ft. (5-425m.) Blooms Apr-Jun(Jul).	Not Expected	The site is developed with actively maintained ornamental landscaping, and springs and seeps are not present.
Triquetrella californica coastal triquetrella	None/None G2/S2 1B.2	Moss. Coastal bluff scrub, coastal scrub. Grows within 30m from the coast in coastal scrub, grasslands and in open gravels on roadsides, hillsides, rocky slopes, and fields. On gravel or thin soil over outcrops. Elevations: 35-330ft. (10-100m.)	Not Expected	The site is developed with actively maintained ornamental landscaping, and coastal bluff scrub and coastal scrub are not present.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
Viburnum ellipticum oval-leaved viburnum	None/None G4G5/S3 2B.3	Perennial deciduous shrub. Chaparral, cismontane woodland, lower montane coniferous forest. Elevations: 705-4595ft. (215-1400m.) Blooms May-Jun.	Not Expected	The site is developed with actively maintained ornamental landscaping, and chaparral, cismontane woodland, and lower montane coniferous forest are not present.

BSA = Biological Study Area; ft. = feet; m. = meter

Regional Vicinity refers to within a nine-quad search radius of site (in this case, a 12-quad search was conducted).

Status (Federal/State)

FE = Federal Endangered
FT = Federal Threatened
SE = State Endangered
ST = State Threatened
SR = State Rare

CRPR (California Native Plant Society California Rare Plant Rank)

1B = Rare, Threatened, or Endangered in California and elsewhere
2B= Rare, Threatened, or Endangered in California, but more common elsewhere

CRPR Threat Code Extension

.1 = Seriously endangered in California (>80% of occurrences threatened/high degree and immediacy of threat)
.2 = Moderately threatened in California (20-80% of occurrences threatened/moderate degree and immediacy of threat)
.3 = Not very endangered in California (<20% of occurrences threatened/low degree and immediacy of threat)

Other Statuses

G1 or S1 Critically Imperiled Globally or Subnationally (state)
G2 or S2 Imperiled Globally or Subnationally (state)
G3 or S3 Vulnerable to extirpation or extinction Globally or Subnationally (state)
G4/5 or S4/5 Apparently secure, common and abundant

AdditionalNotations may be provided as follows

T – Intraspecific Taxon (subspecies, varieties, and other designations below the level of species)
Q – Questionable taxonomy that may reduce conservation priority
? – Inexact numeric rank

Special-Status Wildlife Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
Invertebrates				
Bombus crotchii Crotch's bumble bee	None/SCE G2/S2	Coastal California east to the Sierra-Cascade crest and south into Mexico. Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.	Not Expected	Non-native annual grassland and ornamental vegetation is present, however the site is developed with actively maintained landscaping and no suitable nest site were observed.
Bombus occidentalis western bumble bee	None/SCE G3/S1	Once common and widespread, species has declined precipitously from central CA to southern B.C., perhaps from disease.	Not Expected	Non-native annual grassland and ornamental vegetation is present, however the site is developed with actively maintained landscaping and no current sightings have been reported west of the Sierra Navada range in Bumble Bee Watch (Xerces Society, et. al. 2025).
Danaus plexippus plexippus pop. 1 monarch - California overwintering population	FPT/None G4T1T2Q/S2	Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico. Roosts located in wind-protected tree groves (eucalyptus, Monterey pine, cypress), with nectar and water sources nearby.	No Expected	Suitable wind-sheltered overwintering groves are not present.
Syncaris pacifica California freshwater shrimp	FE/SE G2/S2	Endemic to Marin, Napa, and Sonoma counties. Found in low elevation, low gradient streams where riparian cover is moderate to heavy. Shallow pools away from main streamflow. Winter: undercut banks with exposed roots. Summer: leafy branches touching water.	Not Expected	Aquatic habitats are not present.

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
Fish				
Acipenser medirostris pop. 1 green sturgeon - southern DPS	FT/None G2T1/S1 SSC	Spawning site fidelity. Spawns in the Sacramento, Feather and Yuba Rivers. Presence in upper Stanislaus and San Joaquin Rivers may indicate spawning. Non-spawning adults occupy marine/estuarine waters. Delta Estuary is important for rearing juveniles. Spawning occurs primarily in cool (11-15 C) sections of mainstem rivers in deep pools (8-9 meters) with substrate containing small to medium sized sand, gravel, cobble, or boulder.	Not Expected	Aquatic habitats are not present.
Eucyclogobius newberryi tidewater goby	FE/None G3/S3 SSC	Brackish water habitats along the California coast from Agua Hedionda Lagoon, San Diego County to the mouth of the Smith River. Found in shallow lagoons and lower stream reaches, they need fairly still butNot stagnant water and high oxygen levels.	Not Expected	Aquatic habitats are not present.
Hesperoleucus venustus subditus southern coastal roach	None/None GNRT2/S2 SSC	Found in the drainages of Tomales Bay and northern San Francisco Bay in the north, and drainages of Monterey Bay in the south.	Not Expected	Aquatic habitats are not present.
Oncorhynchus kisutch pop. 4 coho salmon - central California coast ESU	FE/SE G5T2Q/S2	Federal listing = pops between Punta Gorda and San Lorenzo River. State listing = pops south of Punta Gorda. Require beds of loose, silt-free, coarse gravel for spawning. Also need cover, cool water and sufficient dissolved oxygen.	Not Expected	Aquatic habitats are not present.
Oncorhynchus mykiss irideus pop. 8 steelhead - central California coast DPS	FT/None G5T3Q/S3 SSC	DPS includes all naturally spawned populations of steelhead (and their progeny) in streams from the Russian River to Aptos Creek, Santa Cruz County, California (inclusive). Also includes the drainages of San Francisco and San Pablo Bays.	Not Expected	Aquatic habitats are not present.

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
Pogonichthys macrolepidotus Sacramento splittail	None/None G3/S3 SSC	Endemic to the lakes and rivers of the Central Valley, but now confined to the Delta, Suisun Bay and associated marshes. Slow moving river sections, dead end sloughs. Requires flooded vegetation for spawning and foraging for young.	Not Expected	Aquatic habitats are not present.
Spirinchus thaleichthys pop. 2 longfin smelt - San Francisco Bay-Delta DPS	FE/ST G5TNRQ/S1	Pelagic and anadromous within the Sacramento-San Joaquin River Delta, San Francisco Bay, and Gulf of the Farallones. Spawns in lower freshwater reaches of Sacramento and San Joaquin Rivers. First year in Suisun Bay; later SF Bay or Gulf of the Farallones. Occurs in salinities ranging from pure freshwater to pure saltwater; typically salinities ranging from 14-28 parts per thousand (ppt). Generally occupies water temperatures from 61-68F, with spawning occurring in water temperatures from 41-58F.	Not Expected	Aquatic habitats are not present.
Thaleichthys pacificus eulachon	FT/None G5/S1 SSC	Found in Klamath River, Mad River, Redwood Creek, and in small numbers in Smith River and Humboldt Bay tributaries. Spawn in lower reaches of coastal rivers with moderate water velocities and bottom of pea-sized gravel, sand, and woody debris.	Not Expected	Aquatic habitats are not present.
Amphibians				
Ambystoma californiense pop. 3 California tiger salamander - Sonoma County DPS	FE/ST G2G3T2/S2 WL	Lives in vacant or mammal-occupied burrows throughout most of the year; in grassland, savanna, or open woodland habitats. Need underground refuges, especially ground squirrel burrows, and vernal pools or other seasonal water sources for breeding.	Not Expected	The site is developed with actively maintained landscaping and vernal pool habitats are not present, and the site is outside this species known range.

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
Dicamptodon ensatus California giant salamander	None/None G2G3/S2S3 SSC	Known from wet coastal forests near streams and seeps from Mendocino County south to Monterey County, and east to Napa County. Aquatic larvae found in cold, clear streams, occasionally in lakes and ponds. Adults known from wet forests under rocks and logs near streams and lakes.	Not Expected	The site is developed with actively maintained landscaping and wet coastal forests. Aquatic habitats are not present.
Rana boylii pop. 1 foothill yellow-legged frog - north coast DPS	None/None G3T4/S4 SSC	Northern Coast Ranges north of San Francisco Bay Estuary, Klamath Mountains, and Cascade Range including watershed subbasins (HU 8) Lower Pit, Battle Creek, Thomes Creek, and Big Chico Creek in Lassen, Shasta, Tehama, and Butte Counties. Partly shaded shallow streams and riffles with a rocky substrate in a variety of habitats. Needs at least some cobble-sized substrate for egg-laying and at least 15 weeks to attain metamorphosis.	Not Expected	The site is developed with actively maintained landscaping suitable. Aquatic habitats are not present.
Rana draytonii California red-legged frog	FT/None G2G3/S2S3 SSC	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	Not Expected	The site is developed with actively maintained landscaping suitable. Aquatic habitats are not present.
Taricha rivularis red-bellied newt	None/None G2/S2 SSC	Coastal drainages from Humboldt County south to Sonoma County, inland to Lake County. Isolated population of uncertain origin in Santa Clara County. Lives in terrestrial habitats, juveniles generally underground, adults active at surface in moist environments. Will migrate over 1 km to breed, typically in streams with moderate flow and clean, rocky substrate.	Not Expected	The site is developed with actively maintained landscaping suitable. Aquatic habitats are not present.

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
Reptiles				
Actinemys marmorata northwestern pond turtle	FPT/None G2/SNR SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying. Occurs in northern California, south along the Sierra Nevada Mountains and the Coast Range down to Monterey and Kern Counties.	Not Expected	The site is developed with actively maintained landscaping and suitable aquatic habitats are not present.
Birds				
Accipiter cooperii Cooper's hawk	None/None G5/S4 WL	Woodland, chiefly of open, interrupted or marginal type. Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and suitably large nest trees are not present.
Agelaius tricolor tricolored blackbird	None/ST G1G2/S2 SSC	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California. Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony.	Not Expected	The site is developed with actively maintained landscaping and suitable nesting and foraging habitats next to open water are not present.
Ammodramus savannarum grasshopper sparrow	None/None G5/S3 SSC	Dense grasslands on rolling hills, lowland plains, in valleys and on hillsides on lower mountain slopes. Favors native grasslands with a mix of grasses, forbs and scattered shrubs. Loosely colonial when nesting.	Low potential	The site is developed with actively maintained landscaping, however suitable nesting habitat may occur in non-native grassland in coast live oak understory.
Aquila chrysaetos golden eagle	None/None G5/S3 FP WL	Rolling foothills, mountain areas, sage-juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and suitably large nest trees are not present.
Asio flammeus short-eared owl	None/None G5/S2 SSC	Found in swamp lands, both fresh and salt; lowland meadows; irrigated alfalfa fields. Tule patches/tall grass needed for nesting/daytime seclusion. Nests on dry ground in depression concealed in vegetation.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and swamp lands are not present.

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
Athene cunicularia burrowing owl	None/SCE G4/S2 SSC	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Low Potential	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, however suitable nesting habitat may occur in non-native grassland in coast live oak understory.
Buteo regalis ferruginous hawk	None/None G4/S3S4 WL	Open grasslands, sagebrush flats, desert scrub, low foothills and fringes of pinyon and juniper habitats. Eats mostly lagomorphs, ground squirrels, and mice. Population trends may follow lagomorph population cycles.	Low Potential	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, however suitable foraging habitat occurs in coast live oak woodlands.
Buteo swainsoni Swainson's hawk	None/ST G5/S4	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and suitably large nest trees are not present.
Charadrius nivosus nivosus western snowy plover	FT/None G3T3/S3 SSC	Sandy beaches, salt pond levees and shores of large alkali lakes. Needs sandy, gravelly or friable soils for nesting.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and sandy beaches, salt pond levees are not present.
Circus hudsonius northern harrier	None/None G5/S3 SSC	Coastal salt and freshwater marsh. Nest and forage in grasslands, from salt grass in desert sink to mountain cienagas. Nests on ground in shrubby vegetation, usually at marsh edge; nest built of a large mound of sticks in wet areas.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and marsh lands are not present.
Coccyzus americanus occidentalis western yellow-billed cuckoo	FT/SE G5T2T3/S1	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and riparian forests are not present.

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
Coturnicops noveboracensis yellow rail	None/None G4/S2 SSC	Summer resident in eastern Sierra Nevada in Mono County. Freshwater marshlands.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and marsh lands are not present.
Cypseloides niger black swift	None/None G4/S3 SSC	Coastal belt of Santa Cruz and Monterey counties; central and southern Sierra Nevada; San Bernardino and San Jacinto mountains. Breeds in small colonies on cliffs behind or adjacent to waterfalls in deep canyons and sea-bluffs above the surf; forages widely.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and suitable cliffs are not present.
Elanus leucurus white-tailed kite	None/None G5/S3S4 FP	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and suitably large nest trees are not present.
Eremophila alpestris actia California horned lark	None/None G5T4Q/S4 WL	Coastal regions, chiefly from Sonoma County to San Diego County. Also main part of San Joaquin Valley and east to foothills. Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	Low potential	The site is developed with actively maintained landscaping, however suitable nesting habitat may occur in non-native grassland in coast live oak understory.
Falco columbarius merlin	None/None G5/S3S4 WL	Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands and deserts, farms and ranches. Clumps of trees or windbreaks are required for roosting in open country.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and woodlands near aquatic habitats are not present.
Falco peregrinus anatum American peregrine falcon	FD/SD G4T4/S3S4	Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures. Nest consists of a scrape or a depression or ledge in an open site.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and cliffs and dunes near aquatic habitats are not present.

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
Geothlypis trichas sinuosa saltmarsh common yellowthroat	None/None G5T3/S3 SSC	Resident of the San Francisco Bay region, in fresh and salt water marshes. Requires thick, continuous cover down to water surface for foraging; tall grasses, tule patches, willows for nesting.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and marsh lands are not present.
Laterallus jamaicensis coturniculus California black rail	None/ST G3T1/S2 FP	Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays. Needs water depths of about 1 inch that doNot fluctuate during the year and dense vegetation for nesting habitat.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and marsh lands are not present.
Melospiza melodia pusillula Alameda song sparrow	None/None G5T2T3/S2 SSC	Resident of salt marshes bordering south arm of San Francisco Bay. Inhabits Salicornia marshes; nests low in Grindelia bushes (high enough to escape high tides) and in Salicornia.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and marsh lands are not present.
Melospiza melodia samuelis San Pablo song sparrow	None/None G5T2/S2 SSC	Resident of salt marshes along the north side of San Francisco and San Pablo bays. Inhabits tidal sloughs in the Salicornia marshes; nests in Grindelia bordering slough channels.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and marsh lands are not present.
Nannopterum auritum double-crested cormorant	None/None G5/S4 WL	Colonial nester on coastal cliffs, offshore islands, and along lake margins in the interior of the state. Nests along coast on sequestered islets, usually on ground with sloping surface, or in tall trees along lake margins.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and large trees and lake margins are not present.
Nycticorax nycticorax black-crowned night heron	None/None G5/S4	Colonial nester, usually in trees, occasionally in tule patches. Rookery sites located adjacent to foraging areas: lake margins, mud-bordered bays, marshy spots.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and large rookery trees are not present.
Rallus obsoletus obsoletus California Ridgway's rail	FE/SE G3T1/S2 FP	Salt water and brackish marshes traversed by tidal sloughs in the vicinity of San Francisco Bay. Associated with abundant growths of pickleweed, but feeds away from cover on invertebrates from mud-bottomed sloughs.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and marsh lands are not present.

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
Riparia riparia bank swallow	None/ST G5/S3	Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and riparian habitats and cliffs are not present.
Strix occidentalis caurina northern spotted owl	FT/ST G3G4T3/S2	Colonial nester; nests primarily in riparian and Old-growth forests or mixed stands of old-growth and mature trees. Occasionally in younger forests with patches of big trees. High, multistory canopy dominated by big trees, many trees with cavities or broken tops, woody debris, and space under canopy.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and old growth forests are not present.
Mammals				
Antrozous pallidus pallid bat	None/None G4/S3 SSC	Found in a variety of habitats including deserts, grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts in crevices of rock outcrops, caves, mine tunnels, buildings, bridges, and hollows of live and dead trees which must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	Low Potential	Suitable foraging habitat is present in coast live oak woodlands, however suitable roosting structures and cavities are not present.
Aplodontia rufa phaea Point Reyes mountain beaver	None/None G5T2/S2 SSC	Coastal area of Point Reyes in areas of springs or seepages. North-facing slopes of hills and gullies in areas overgrown with sword ferns and thimbleberries.	Not Expected	Natural coastal habitats with suitable understory vegetation are not present.
Corynorhinus townsendii Townsend's big-eared bat	None/None G4/S2 SSC	Occurs throughout California in a wide variety of habitats. Most common in mesic sites, typically coniferous or deciduous forests. Roosts in the open, hanging from walls & ceilings in caves, lava tubes, bridges, and buildings. This species is extremely sensitive to human disturbance.	Low Potential	Suitable foraging habitat is present in coast live oak woodlands, however suitable roosting structures and cavities are not present.

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
Microtus californicus sanpabloensis San Pablo vole	None/None G5T1T2/S1S2 SSC	Saltmarshes of San Pablo Creek, on the south shore of San Pablo Bay. Constructs burrow in soft soil. Feeds on grasses, sedges and herbs. Forms a network of runways leading from the burrow.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and marsh lands are not present.
Reithrodontomys raviventris salt-marsh harvest mouse	FE/SE G1G2/S3 FP	Only in the saline emergent wetlands of San Francisco Bay and its tributaries. Pickleweed is primary habitat, but may occur in other marsh vegetation types and in adjacent upland areas. DoesNot burrow; builds loosely organized nests. Requires higher areas for flood escape.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and marsh lands are not present.
Sorex ornatus sinuosus Suisun shrew	None/None G5T1T2Q/S1S2 SSC	Tidal marshes of the northern shores of San Pablo and Suisun bays. Require dense low-lying cover and driftweed and other litter above the mean hightide line for nesting and foraging.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and marsh lands are not present.
Sorex vagrans halicoetes salt-marsh wandering shrew	None/None G5T1/S1 SSC	Salt marshes of the south arm of San Francisco Bay. Medium high marsh 6-8 ft above sea level where abundant driftwood is scattered among Salicornia.	Not Expected	The site is developed with actively maintained landscaping, there is a high level of disturbance due to human presence, and marsh lands are not present.
Taxidea taxus American badger	None/None G5/S3 SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	Low potential	The site is developed with actively maintained landscaping, and there is a high level of disturbance due to human presence, however suitable foraging habitat may occur in coast live oak woodlands in the vicinity of the site and this species is highly motile.

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale

ft. = feet; km = kilometer

Regional Vicinity refers to within a nine-quad search radius of site (in this case, a 12-quad search was conducted).

Status (Federal/State)

FE = Federal Endangered
FT = Federal Threatened
FPT = Federal Proposed Threatened
FD = Federal Delisted
FC = Federal Candidate
SE = State Endangered
ST = State Threatened
SCE = State Candidate Endangered
SD = State Delisted
SSC = CDFW Species of Special Concern
FP = CDFW Fully Protected
WL = CDFW Watch List

Other Statuses

G1 or S1 Critically Imperiled Globally or Subnationally (state)
G2 or S2 Imperiled Globally or Subnationally (state)
G3 or S3 Vulnerable to extirpation or extinction Globally or Subnationally (state)
G4/5 or S4/5 Apparently secure, common and abundant

Additional Notations may be provided as follows

T – Intraspecific Taxon (subspecies, varieties, and other designations below the level of species)
Q – Questionable taxonomy that may reduce conservation priority

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Appendix G

Energy Calculation Sheet

Wood Hollow Residence Project

2/5/2025

Compression-Ignition Engine Brake-Specific Fuel Consumption (BSFC) Factors **[1]**:

HP: 0 to 100	0.0588	HP: Greater than 100	0.0529

Values above are expressed in gallons per horsepower-hour/BSFC.

CONSTRUCTION EQUIPMENT

Construction Equipment	#	Hours per Day	Horsepower	Load Factor	Construction Phase	Fuel Used (gallons)
Rubber Tired Dozers	2	8	367	0.4	Demolition	9,808
Excavators	3	8	36	0.38	Demolition	1,524
Concrete/Industrial Saws	1	8	33	0.73	Demolition	895
Rubber Tired Dozers	3	8	367	0.4	Site Preparation	29,052
Tractors/Loaders/Backhoes	4	8	84	0.37	Site Preparation	9,117
Graders	1	8	148	0.41	Grading	2,001
Excavators	1	8	36	0.38	Grading	502
Tractors/Loaders/Backhoes	3	8	84	0.37	Grading	3,419
Rubber Tired Dozers	1	8	367	0.4	Grading	4,842
Forklifts	3	8	82	0.2	Building Construction	14,502
Generator Sets	1	8	14	0.74	Building Construction	3,054
Cranes	1	7	367	0.29	Building Construction	24,692
Welders	1	8	46	0.45	Building Construction	6,102
Tractors/Loaders/Backhoes	3	7	84	0.37	Building Construction	24,048
Pavers	2	8	81	0.42	Paving	832
Paving Equipment	2	8	89	0.36	Paving	783
Rollers	2	8	36	0.38	Paving	334
					Total Fuel Used	**135,507 (Gallons)**

Construction Phase	Days of Operation
Demolition	79
Site Preparation	156
Grading	78
Building Construction	627
Paving	26
Total Days	966

WORKER TRIPS

Constuction Phase	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
Demo	24.1	**15**	**11.7**	575
Site Preparation	24.1	**17.5**	**11.7**	1,325
Grading	24.1	**15**	**11.7**	568
Building Construction	24.1	**23.8**	**11.7**	7,245
Paving	24.1	**15**	**11.7**	189
				9,903

HAULING AND VENDOR TRIPS

HAULING TRIPS

Constuction Phase	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
Demo	7.5	37	20.0	7752.53
Grading	7.5	10	20.0	2067.52
			Total Fuel Used	**9,820.05**

VENDOR TRIPS

Constuction Phase	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
Building Construction	7.5	7	8.4	4957.81
			Total Fuel Used	**4,957.81**

Total Gasoline Consumption (gallons)	**9,903**

Total Diesel Consumption (gallons)	**150,285**

Sources:

[1] United States Environmental Protection Agency. 2021. *Exhaust and Crankcase Emission Factors for Nonroad Compression-Ignition Engines in MOVES3.0.2* . September. Available at: https://www.epa.gov/system/files/documents/2021-08/420r21021.pdf.

[2] United States Department of Transportation, Bureau of Transportation Statistics. 2021. *National Transportation Statistics* . Available at: https://www.bts.gov/topics/national-transportation-statistics.

Appendix H

Trip Generation Study

January 24, 2025

Ms. Gianna Meschi
Rincon Consultants, Inc.
4825 J Street, Suite 200
Sacramento, CA 95819

Focused Trip Generation Study for the Wood Hollow Residences Project

Dear Ms. Meschi;

As requested, W-Trans has prepared a focused trip generation assessment for the Wood Hollow Residences project to be located at 100 Wood Hollow Drive in the City of Novato. This information has been assembled to support the project's CEQA documentation, which is an addendum to the General Plan EIR.

Project Description

The proposed project includes 66 single-family homes on a site that is currently occupied by an approximately 124,870 square foot office building and associated paved parking lot. Access to the site would be via a private street intersection on Meadow Crest Road, with a secondary access restricted to emergency vehicles only on Wood Hollow Drive.

Trip Generation

The anticipated trip generation for the proposed project was estimated using standard rates published by the Institute of Transportation Engineers (ITE) in *Trip Generation Manual*, 11th Edition, 2021. The applied rates for the proposed residential units use the Single Family Detached Housing category (LU #223), and rates for the existing office building use the General Office Building category (LU #710).

While the existing office building is vacant, its effects, including traffic generation, were included in the General Plan EIR, to which the current project's CEQA documentation is being compared. The proposed residential development is estimated to generate 622 trips per day, including 46 trips during the a.m. peak hour and 62 during the p.m. peak hour. Compared to the trip generation potential associated with the existing office building on the site, the project would be expected to generate 732 fewer daily trips, 144 fewer a.m. peak hour trips, and 118 fewer p.m. peak hour trips.

Because the amount of traffic generated by uses on the site would be substantially lower with the proposed project than presumed in the General Plan EIR, the associated level of impacts that are directly or indirectly related to vehicle travel would also be lower.

The trip generation comparison is summarized in Table 1.

Table 1 – Trip Generation Summary

Land Use	Units	Daily		AM Peak Hour				PM Peak Hour			
		Rate	Trips	Rate	Trips	In	Out	Rate	Trips	In	Out
Existing											
Office Building	-124.87 ksf	10.84	-1,354	1.52	-190	-167	-23	1.44	-180	-31	-149
Proposed											
Single-Family Residential	66 units	9.43	622	0.70	46	12	34	0.94	62	39	23
Total			**-732**		**-144**	**-155**	**11**		**-118**	**8**	**-126**

Note: du = dwelling unit; ksf = 1,000 square feet

Vehicle Miles Traveled

The difference in the amount of potential vehicle miles traveled (VMT) generated by the project as compared to the current office building was also estimated using a similar approach to that used in the *2023-2031 Housing Element Update General Plan EIR Addendum*, prepared by Rincon Associates for the City of Novato in 2022. Average year 2040 vehicle trip lengths for residential-based and employment-based land uses were obtained from the TAMDM travel demand model maintained by the Transportation Authority of Marin for the micro-analysis zone (MAZ) encompassing the project site (MAZ 811687). The total VMT potential associated with the proposed project and existing office was then estimated by multiplying these trip lengths by the number of daily trips. The resulting comparison of total VMT under cumulative 2040 conditions is shown in Table 2.

Table 2 – Comparison of Total VMT Potential in 2040

	Daily Trips	Average 2040 Trip Length (mi)	Total Vehicle Miles Traveled
Existing Office Building	1,354	9.90	13,405
Proposed Residential Project	622	4.53	2,818
Change with Project	**-732**	**-5.37**	**-10,587**

Note: Trip lengths obtained from custom TAMDM model runs performed for the *2023-2031 Housing Element Update General Plan EIR Addendum*

The proposed project would be expected to produce substantially lower total VMT than the current office building. Accordingly, the project would result in VMT-related impacts that are equivalent to or less than those assessed in the General Plan EIR.

Thank you for giving W-Trans the opportunity to provide these services. Please call if you have any questions.

Sincerely,

Zachary Matley, AICP
Principal

JZM/NOV157.L1

Appendix I

Preliminary Geotechnical Exploration

100 WOOD HOLLOW DRIVE
NOVATO, CALIFORNIA

PRELIMINARY GEOTECHNICAL EXPLORATION

SUBMITTED TO
Mr. Logan Williams
Align Real Estate
255 California, Suite 525
San Francisco, CA 94111

PREPARED BY
ENGEO Incorporated

August 16, 2024

PROJECT NO.
26288.000.001

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ENGEO
Expect Excellence

Project No.
26288.000.001

August 16, 2024

Mr. Logan Williams
Align Real Estate
255 California, Suite 525
San Francisco, CA 94111

Subject: 100 Wood Hollow Drive
Novato, California

PRELIMINARY GEOTECHNICAL EXPLORATION

Dear Mr. Williams:

We are pleased to present this preliminary geotechnical report for the conceptual planning of your proposed 65 single-family residential development at 100 Wood Hollow Drive, California. This report presents our preliminary geotechnical findings, conclusions, and recommendations.

Based on our initial assessment, it is our opinion that development at the project site is feasible from a geotechnical standpoint. The primary geotechnical and geologic considerations for the project are the presence of landslides, expansive soil, undocumented fill, and shallow perched groundwater. A design-level geotechnical exploration should be conducted prior to site development once information is available regarding the structural loads and proposed grading.

We are pleased to have been of service on this project and are prepared to consult further with you and your design team as the project progresses. If you have any questions or comments regarding this, please give us a call.

Sincerely,

ENGEO Incorporated

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1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

We prepared this preliminary geotechnical report for the proposed residential development at 100 Wood Hollow Drive (Site) in Novato, California. Our scope of services is outlined in our agreement dated July 12, 2024, and included the following.

- Review of published maps, previous reports, and historical information
- Review of aerial images
- Exploration of subsurface conditions
- Laboratory testing of soil samples
- Preparation of this report summarizing our preliminary conclusions and recommendations for the proposed development

We prepared this report for the exclusive use of Align Real Estate, and their consultants for project planning and preliminary design. In the event that any changes are made in the character, design, or layout of the development, we must be contacted to review the conclusions and recommendations contained in this report to determine whether modifications are necessary. This document may not be reproduced in whole or in part by any means whatsoever, nor may it be quoted or excerpted without our express written consent.

1.2 PROJECT LOCATION, DESCRIPTION, AND PROPOSED DEVELOPMENT

For our use, we received the following documents.

- TWM Architects & Planners. (2000). Wood Hollow San Marin Business Park, Novato, CA, June 22, 2000.
- CBG. (2024). Overall Site Plan; 100 Wood Hollow Drive, Novato, CA, March 1, 2024.

The proposed residential development is located at the northern edge of Novato, California on a 13-acre parcel identified as Assessor's Parcel Number (APN) 125-202-017, as shown in Figures 1 and 2. The area is currently occupied by an office structure with its associated paved parking lot and landscape areas. The parcel is bounded by Wood Hollow Drive to the south, Meadow Crest Road to the west, and a vegetated Mt. Burdell to the north and east.

To facilitate the proposed development, the existing structure and its improvements will be demolished. As illustrated in the Site plan (CBG, 2024), 65 single-family residential houses, paved driving lanes, sidewalks, landscape areas, underground utilities, and bioretention basins are preliminarily planned.

1.3 SITE HISTORY

We reviewed historical aerial photographs of the Site available on Google Earth, UCSB Frame Finder, and www.historicaerials.com. Aerial photographs as early as 1952 show the Site occupied by vegetation and trees at the top of Mt. Burdells' slopes. The nearby US-101 and Redwood Boulevard were realigned sometime between 1969 and 1975 to curve into the current configuration that is seen in present day images. Between 1982 and 1987, the Fireman's Fund Office campus was constructed to the south, as was Meadow Creek Road, to the east of the Site.

In 2000, the existing office structure was built. The Site has remained relatively unchanged between the 2000 photograph and our exploration in 2024.

1.4 PREVIOUS REPORTS

We reviewed past geotechnical reports that we and other geotechnical consultants prepared for projects in immediate proximity or within the limits of the project Site. These reports include:

1. Cooper-Clark and Associates. 1978. Preliminary Geotechnical Investigation, Proposed 54-Acre Industrial Development, Nunes Ranch, Novato, California. July 7, 1978. Job No. 1950-C.
2. Herzog & Associates. 1982. Geotechnical Investigation, San Marin Commerce Park, Novato, California. April 28, 1982. Job No. 134.41.
3. Kleinfelder. 1998. Preliminary Geotechnical Investigation; Parcels 1 and 2, Wood Hollow Drive and Redwood Boulevard, Novato, California. September 24, 1998. Job No. 41-7449-01.
4. Kleinfelder. 1999. Geotechnical Investigation Report, Area “E”, San Marin Business Park, Redwood Boulevard, Novato, California. September 8, 1999. Job No. 41-7449-02.
5. Herzog & Associates. 2001. Geotechnical Review, Deformation Analyses, San Marin Business Park, Area E, Novato, California. October 24, 2001. Project No. 728-01-00.
6. ENGEO. 2023. Geotechnical Exploration Report, Valley Oaks, Novato California. January 12, 2023, Revised January 20, 2023. Project No. 15401.002.000.

2.0 FINDINGS

2.1 GEOLOGY AND SEISMICITY

2.1.1 Regional and Local Geology

The Site is located within the Coast Ranges geomorphic province of California. The Coast Ranges province is typified by a system of northwest-trending, fault-bounded mountain ranges, and intervening alluvial valleys. Bedrock in the Coast Ranges consists of igneous, metamorphic, and sedimentary rocks that range in age from Jurassic to Pleistocene. The present physiography and geology of the Coast Ranges are the result of deformation and deposition along the tectonic boundary between the North American plate and the Pacific plate. Plate boundary fault movements are largely concentrated along the well-known fault zones, which in the area include the San Andreas, Hayward, and Calaveras faults, as well as other lesser-known faults.

According to a published geologic map by Wagner and Guiterrez, 2017 (Figure 3), the Site is mapped to a Holocene alluvial fan and landslide deposits, and the surrounding Mt. Burdell consists of schist and semi-schist bedrock. Rice, 1974, corroborates these findings as he mapped the Site as having an existing rock debris flow landslide that has moved downslope by flow or creep processes, colluvium, and alluvium. Rice mentions that the landslides on this part of Mt. Burdell are roughly planar and occur parallel to the slope surface. Figure 4 shows historical landslide region depicted by Rice and the smaller mapped debris flow by Kleinfelder (1999).

2.1.2 Regional Faulting And Seismicity

The Site is located in a seismically active area that contains numerous faults. Small earthquakes occur every year in the San Francisco Bay Area and larger earthquakes have been recorded and can be expected to occur in the future. Active faults are cataloged and mapped by the United States Geological Survey (USGS) in the Quaternary Fault and Fold Database of the United States. An active fault is defined by the California Geological Survey as one that experienced surface displacement within Holocene time (about the last, 7,000 years) (CGS, 2018). Figure 5 shows the approximate locations of known active faults, along with other Quaternary faults based on the USGS Quaternary Fault and Fold Database, as well as significant historical earthquakes recorded within the San Francisco Bay Area region.

To identify nearby faults that are capable of generating strong seismic ground shaking at the Site, we utilized the USGS Earthquake Hazard Toolbox and the 2018 National Seismic Hazard Model (NSHM) to perform a disaggregation of the seismic hazard at the peak ground acceleration (PGA) and at spectral periods up to 5 seconds for a return period of 2,475 years. The resulting faults are listed in Table 2.1.2-1.

TABLE 2.1.2-1: Faults Considered Capable of Producing Strong Ground Shaking at the Site*

SOURCE NAME	RUPTURE DISTANCE, R_{RUP} (mi)	MOMENT MAGNITUDE, M_W
Hayward (North) (0)	6.3	7.40
San Andreas (North Coast) (3)	13.1	7.96
Rodgers Creek - Healdsburg (1)	7.5	6.89
Bennett Valley (0)	8.8	6.5

*Based on USGS Earthquake Hazard Toolbox: NSHM Conterminous U.S. 2018

These results represent known fault sources contributing at least 1 percent to the seismic hazard at the Site based on the disaggregation discussed above. The rupture distances (R_{RUP}) and mean moment magnitudes (M_W) listed are based on values assigned according to the 2018 NSHM, and the numbers in parentheses after the fault names correspond to fault subsections assigned by the NSHM. Note that the above fault table is not an exhaustive list and other faults in the region may generate seismic shaking at the project Site.

2.2 FIELD EXPLORATION

Prior to conducting the field exploration, we notified Underground Service Alert and retained the services of a private utility locator to clear the exploratory locations of existing utilities. Additionally, we obtained drilling permits from Marin County.

On July 25, 2024, we performed a preliminary geotechnical investigation that included the logging of an excavated test pit and drilled borings. Figure 2 shows the approximate location of our explorations.

2.2.1 Test Pit

We retained the services of a subcontractor to excavate one test pit northeast of the proposed development, as shown in Figure 2. A rubber-tired backhoe with a 2-foot-wide bucket was used to excavate the test pit. We logged the soil type, location, and uniformity of the subsurface conditions. The test pit was excavated to a maximum depth of approximately 4 feet below existing grade. We obtained bulk soil samples from the test pit using hand-sampling techniques.

We used the field logs to develop the report logs in Appendix A. The logs depict subsurface conditions at the exploration locations for the date of exploration; however, subsurface conditions may vary with time. Following field logging and sample collection, the test pit excavation was loosely backfilled with the excavated material.

2.2.2 Borings

We retained the services of a subcontractor to advance three boring with a CME-75 truck-mounted drill using solid-flight auger and mud-rotary methods. We advanced the borings until bedrock was encountered.

We collected soil samples at frequent depth intervals using either a 3-inch outside-diameter (O.D.) California-type split-spoon sampler fitted with 6-inch-long liners, or a 2-inch O.D. standard penetration test (SPT) split-spoon sampler. We advanced the samplers with a 140-pound hammer with a 30-inch drop, employing an automatic-trip hammer system. We recorded the penetration of the sampler as the number of blows needed to drive the sampler 18 inches in 6-inch increments. The boring log shows the number of blows required for the last foot of penetration, or the number of blows per depth of penetration for samples that met driving refusal. We did not convert the blow counts depicted on the boring log using any correction factors.

The boring logs are included in Appendix B. The log depicts interpreted subsurface conditions within the boring at the time the exploration was conducted. The stratification lines on our log represent the approximate boundaries between soil types and the transitions may be gradual. Subsurface conditions at other locations may differ from the conditions noted at these boring locations.

2.3 SURFACE CONDITIONS

The Site is currently occupied by a three-story, steel-framed office building constructed in 2000 and a parking lot with landscaped areas. The built area is in a low-lying valley that is bordered by Mt. Burdell to the east, west, and north. There has been historical grading associated with the existing development. There is approximately 24 feet of topographic relief (Elevation 44 to Elevation 20 (WGS, 1984)) trending from the northwest to the southeast of the Site (TWM Architects & Planners, 2000).

The steepness of the adjacent hills appears to be approximately 3:1 (horizontal:vertical) in the immediate vicinity of the Site. A retaining wall borders the northern portion of the building and was constructed for “slope stabilization” purposes according to TWM Architects & Planners (2000). Directly behind the retaining wall, there is a lined concrete subdrain located on the drainage easement that directs water away from the historically identified debris flow to Meadow Creek Road and Wood Hollow Drive.

2.4 SUBSURFACE CONDITIONS

The main geologic units encountered in our subsurface exploration are described below. Consult the Site Plan and exploration logs for specific subsurface conditions at each location.

We encountered 4 to 7 feet of undocumented fill throughout the parking lot in our borings. The fill consists of stiff to hard gravelly lean clay with varying amounts of sand. In TP-1, we only observed approximately a 1-foot-thick layer of fill consisting of sandy lean silt with gravel.

Below the fill, we encountered landslide deposits from historic slope instability and colluvium deposits from slope-washed sediments up to approximately 15 feet bgs in Borings 1-B1 and 1-B2. In 1-B3, we also encountered alluvial deposits at 20 feet bgs extending down to the top of rock. The colluvium and alluvium stratum generally consist of medium stiff to hard sandy lean clay with gravel and gravelly lean clay with sand; however, the alluvial deposits tended to have more rounded coarse-grained constituents.

Underlying the soil deposits, we encountered weak moderately to highly weathered sandstone and greenstone. While the area is geologically mapped to semi-schist, phyllite, and schist, we have encountered similar bedrock material in our previous explorations within the vicinity of Mt. Burdell (ENGEO, 2023).

2.5 GROUNDWATER

We did not observe static groundwater in any of our subsurface explorations. We observed perched groundwater conditions in Borings 1-B2 and 1-B3 at a depth of 5 feet bgs. Perched groundwater likely has infiltrated the fill layer and ponded on native clay layers.

TABLE 2.5-1: Groundwater Observations

SOURCE	APPROXIMATE DEPTH TO PERCHED GROUNDWATER (feet)
1-B1	N/A
1-B2	5
1-B3	5

Review of monitoring wells using GeoTracker (ca.gov), wells approximately 1000 feet to the south measured a static groundwater table approximately 9 ½ feet bgs.

Fluctuations in the level of groundwater may occur due to variations in rainfall, irrigation practice, and other factors not evident at the time measurements were made.

3.0 PRELIMINARY DISCUSSIONS AND CONCLUSIONS

We evaluated the Site with respect to known geologic and other hazards common to the area. The primary hazards and the risks associated with these hazards with respect to the planned development are discussed in the following sections of this report which include landslides, compressible soil, undocumented existing fill, perched groundwater, and expansive soil.

3.1 LANDSLIDES

Several areas adjacent to the parcel have been evaluated by USGS, Rice (1974), and Kleinfelder (1999) as susceptible to debris flows and landslides, as shown in Figure 4. According to Kleinfelder (1999), there has been evidence that portions of the overall sliding mass have been re-activated in the last 200 years. This is characterized by abrupt eroded ground breaks, concavities, and hummocky topography. It is likely that landslides and debris flows will continue to be shed from the steep slopes above the project into the low-lying areas. Although slope instability may be a significant hazard, it can generally be mitigated through proper grading procedures.

Some feasible repair concepts for landslides include:

- Partial or full landslide removal and replacement with a keyway-supported engineered slope.
- Filling along toe of the slope to create a buttress and catchment area.
- Catchment retaining walls to dissipate raveled landslide debris.
- Structural solutions to retain or strengthen weak landslide material.

In general, it is possible to reduce construction risk by taking measures to stabilize the slope throughout construction using methods such as dewatering the slope, buttressing the landslide toe, and unloading the landslide crest. In contrast, construction methods that decrease slope stability may increase construction risk, such as excavating cuts near the landslide toe, adding mass to the landslide crest, or allowing additional water to enter the slope.

Landslide mitigation measures implemented for the existing Site improvements (e.g., retaining wall, subdrains, and lined concrete surface drains) may be inadequate for the purpose of the proposed residential development. If reuse of these implementations is desired, we can further evaluate their integrity and efficacy in the design-level geotechnical report. Additionally, a supplemental investigation for this development is required to determine the approximate extents of historical and existing landslides that may impact the structures.

Section 4.6 outlines the requirements for possible cut and fill slopes if a catchment berm or keyway is constructed.

3.2 COMPRESSIBLE SOIL (COLLUVIUM, LANDSLIDE DEBRIS)

Compressible soil is subject to settlement when a new loading scenario is introduced by structures, earthworks, or equipment. The amount of settlement is dependent on the magnitude and duration of the applied load, the shape and size of the applied load area, depth, thickness, and stress history of the compressible soil. The time required for primary settlement to occur is highly dependent on the mode of settlement, moisture content, and/or stiffness of the deposit. Consequently, sandy soil will settle almost immediately, whereas clayey soil will settle much more slowly.

Based on review of the boring logs, the current development placed fill material directly over native slide debris and colluvium. The subsurface consists of predominantly lean clay with sand mixture that is primarily stiff to very stiff. Based on our knowledge and experience, it is our opinion that a portion of settlement under new fill or structural loads will occur during construction and that the remaining settlement can be accommodated by designing the structural foundation to withstand some differential settlement.

To minimize settlement of the softer colluvium due to building loads or engineered fill loads, corrective grading measures that include the removal of compressible materials down to a non-yielding material or bedrock may be recommended. Laboratory testing and additional analysis should be performed in the design-level exploration to confirm the magnitude and extent of potentially compressible material and the potential settlement.

3.3 UNDOCUMENTED EXISTING FILL

The existing Site improvement grading plans indicate fills approximately 10 feet thick underly the Site. Our field explorations identified areas of the Site underlain by existing undocumented fills at least 7 feet thick. The fills were encountered in all borings and test pits. Poorly compacted undocumented fills are susceptible to excessive total and differential settlement, especially under new fill or building loads. We include recommendations for fill removal and recompaction in Section 4.0.

3.4 SHALLOW PERCHED GROUNDWATER

Based on groundwater levels previously discussed in Section 2.5., we encountered a shallow perched groundwater table in some of the borings. This perched water has the potential to impact temporary construction, excavations, and other underground construction. Regional dewatering operations may not be necessary and industrial sump pumps may be adequate to locally pump subsurface water encountered during excavation operations. We recommend that the contractor installing the subsurface utilities plan to perform some localized potholing prior to construction to determine if the groundwater will affect their improvements. Moreover, we provide recommendations in Section 5.4 to mitigate excessively wet ground at the base of excavations, if encountered.

In addition to the above considerations, shallow perched groundwater can:

- Cause moisture damage to sensitive floor coverings
- Transmit moisture vapor through slabs causing excessive mold/mildew build-up, fogging of windows, and damage to computers and other sensitive equipment.
- Cause premature pavement failure if hydrostatic pressures build-up beneath the section.

We provide recommendations to reduce these effects in Section 5.1.2.

3.5 EXPANSIVE SOIL

Based on the laboratory test results of soil at the Site, the clayey deposits have a plasticity index in the low to high 20s, which is an indication of moderately expansive behavior when wetted.

Expansive soil shrinks and swells as a result of moisture changes, which can cause heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. Conventional grading operations, incorporating fill placement specifications tailored to the expansive characteristics of the soil, and use of a post-tensioned mat foundation are common, generally cost-effective measures to address the expansive potential of the near-surface soil. Preliminary grading recommendations for compaction of expansive soil at the Site are included in Section 4.0. Preliminary foundation design recommendations are provided in Section 5.0.

Additionally, successful construction on expansive soil requires special attention during grading. It is imperative to keep exposed soil moist with occasional sprinkling. If the soil is dry, it is extremely difficult to remoisturize without excavation, moisture conditioning, and recompaction.

3.6 SEISMIC HAZARDS

Potential seismic hazards resulting from a nearby moderate to major earthquake include ground rupture, also called surface faulting, ground shaking, soil liquefaction, lateral spreading, and densification. Based on topographic and lithologic data, risk from regional subsidence/uplift is negligible at the Site. The following sections present a discussion of these hazards as they apply to the Site.

3.6.1 Ground Rupture

The Site is not located within a State of California Earthquake Fault Hazard Zone and no known faults cross the Site. Therefore, ground rupture is unlikely at the property.

3.6.2 Ground Shaking

An earthquake of moderate to high magnitude generated within the San Francisco Bay Area could cause considerable ground shaking at the Site, similar to that which has occurred in the past. To mitigate the shaking effects, structures should be designed using sound engineering judgment and the current California Building Code (CBC) requirements, as a minimum. Seismic design provisions of current building codes generally prescribe minimum lateral forces, applied statically to the structure, combined with the gravity forces of dead and live loads. The code-prescribed lateral forces are generally considered to be substantially smaller than the comparable forces that would be associated with a major earthquake. Therefore, structures should be able to: (1) resist minor earthquakes without damage, (2) resist moderate earthquakes without structural damage, but with some non-structural damage, and (3) resist major earthquakes without collapse but with some structural, as well as non-structural damage. Conformance to the current building code recommendations does not constitute any kind of guarantee that significant structural damage would not occur in the event of a maximum magnitude earthquake; however, it is reasonable to expect that a well-designed and well-constructed structure will not collapse or cause loss of life in a major earthquake (SEAOC, 1996).

3.6.3 Liquefaction

Soil liquefaction results from loss of strength during cyclic loading, such as imposed by earthquakes. Soil most susceptible to liquefaction is clean, loose, saturated, uniformly graded, fine-grained sand. According to our exploration data, the soil on Site consists of sandy lean clay with gravel or gravelly lean clay with sand over bedrock. Based on these conditions, the potential for liquefaction at the Site is negligible during seismic shaking.

3.6.4 Lateral Spreading

Lateral spreading is a failure within a nearly horizontal soil zone (due to liquefaction) that causes the overlying soil mass to move toward a free face or down a gentle slope. Generally, effects of lateral spreading are most significant at the free face or the crest of a slope and diminish with distance from the slope. Because of the negligible potential for liquefaction at the Site, the potential for lateral spreading at the Site is also negligible.

3.6.5 2022 California Building Code (CBC) Seismic Parameters

The 2022 CBC utilizes seismic design criteria established in the ASCE/SEI Standard "Minimum Design Loads and Associated Criteria for Buildings and Other Structures," (ASCE 7-16). Based on the subsurface conditions encountered, we preliminarily characterized the Site as Site Class C in accordance with Chapter 20 of ASCE 7-16.

In Table 3.5.5-1 below, we provide the CBC seismic parameters based on the United States Geological Survey's (USGS) Seismic Design Maps for your use.

TABLE 3.5.5-1: 2022 CBC Seismic Information Latitude: 38.1250; Longitude: -122.5670

PARAMETER	DESIGN VALUE
Site Class	C
Mapped MCE_R spectral response accelerations for short periods, S_S (g)	1.5
Mapped MCE_R spectral response accelerations for 1-second periods, S_1 (g)	0.6
Site Coefficient, F_a	1.2
Site Coefficient, F_v	1.4
MCE spectral response accelerations for short periods, S_{MS} (g)	1.80
MCE spectral response accelerations for 1-second periods, S_{M1} (g)	0.84
Design spectral response acceleration at short periods, S_{DS} (g)	1.2
Design spectral response acceleration at 1-second periods, S_{D1} (g)	0.56
MCE Geometric Mean Peak Ground Acceleration, PGA_M (g)	0.68
Long period transition-period, T_L (sec)	12 sec

We recommend that we collaborate with the Structural Engineer-of-Record to further evaluate the effects of taking the exception on the structural design and identify the need for performing a Site-specific ground-motion hazard analysis. We can prepare a proposal for a Site-specific ground-motion hazard analysis, if requested.

4.0 PRELIMINARY EARTHWORK RECOMMENDATIONS

The following preliminary recommendations are for initial land planning and preliminary estimating purposes. Final recommendations regarding Site grading and foundation construction will be provided after design-level exploration has been undertaken.

4.1 SITE PREPARATION

Underground structures, such as buried pipes, septic tanks, and leach fields, if any, should be removed from the project Site entirely. All existing undocumented fill, vegetation, and soft or compressible soil should be removed, as necessary, for project requirements. The depth of removal of these materials should be determined by the geotechnical engineer's qualified representative in the field at the time of grading. Evaluation of unsuitable deposits should be performed during grading by sampling and laboratory analyses.

Areas to receive fill or structures and those areas that serve as borrow for fill should be stripped of existing vegetation. In general, topsoil is estimated to be from 3 to 6 inches in thickness depending on location. Tree roots should be removed to a depth of at least 3 feet below finished grade in cut areas and 3 feet below original grade in fill areas. Subject to approval by the landscape architect, stripping's and organically contaminated soil that are not suitable for use as engineered fill may be used in landscape areas. Any topsoil that will be retained for future use in landscape areas should be stockpiled in areas where it will not interfere with the mass grading.

Within the development areas, excavations resulting from demolition and stripping that extend below final grades should be cleaned to firm undisturbed soil, as determined by the geotechnical engineer's representative. Following clearing and grubbing, all depressions in areas to be filled should be scarified, moisture conditioned, and backfilled with compacted engineered fill in accordance with Section 4.5.

4.2 UNDOCUMENTED FILL

We anticipate that existing undocumented fill is present within the footprint of the proposed development. We encountered the fill to depths up to 7 feet below the ground surface (bgs), likely related to the current development, as discussed in Section 3.3. The existing fill is unconsidered for support of structural and should be overexcavated, removed, and recompacted in accordance with Section 4.5.

4.3 ACCEPTABLE FILL

We anticipate native Site soil and existing on-site soil may be suitable as general engineered fill material, provided it is processed to remove concentrations of organic material, debris, and particles greater than 6 inches in maximum dimension then compacted in accordance with Section 4.5. Unsuitable materials and debris, including trees with their roots, should be removed from the project Site.

4.4 OVER-OPTIMUM SOIL MOISTURE CONDITIONS

The contractor should anticipate encountering excessively over-optimum (wet) soil moisture conditions due to the perched groundwater table, during winter or spring grading, or during or following periods of rain. Wet soil can make proper compaction difficult or impossible. Wet soil conditions can be mitigated by:

1. Frequent spreading and mixing during warm dry weather,
2. Mixing with drier materials,
3. Mixing with a lime and/or cement product, or
4. Stabilizing with aggregate or geotextile stabilization fabric, or both.

Options 3 and 4 should be evaluated by ENGEO prior to implementation.

4.5 FILL COMPACTION

4.5.1 Grading in Structural Areas

After removal of soft soil and loose fill, the exposed non-yielding surface of all areas to receive minor fill, secondary slabs-on-grade, or pavements should be scarified to a depth of 8 inches, moisture conditioned, and recompacted to General Fill compaction specifications provided in Table 4.5.1-1, providing adequate bonding with the initial lift of fill. All fill should be placed in thin compacted lifts that do not exceed 10 inches or the depth of penetration of the compaction equipment used, whichever is less. Test procedures should be determined in accordance with ASTM D1557. We will collect additional samples during Site grading and transport them to our laboratory for compaction curve testing. We recommend the following compaction and moisture content requirements for the placement and compaction of engineered fills.

TABLE 4.5.1-1: Compaction Specifications

LOCATION	MINIMUM RELATIVE COMPACTION	MINIMUM MOISTURE CONTENT (percent above optimum)
General Fill (Site Soil)	90	4
Low Plasticity Import Fill	90	2
Aggregate Base (AB)	95	0

Pavement subgrade soil should be in a stable, non-pumping condition at the time aggregate base is placed and compacted. Proof-rolling with a heavy wheel-loaded piece of construction equipment should be implemented. Yielding materials should be appropriately mitigated, with suitable mitigation measures developed in coordination with the client, contractor, and our representative.

4.5.2 Underground Utility Backfill

Project consultants involved in utility design should specify pipe bedding materials. We recommend that utility trench backfilling be done under our observation. Trench backfill in structural areas should be placed and compacted in accordance with Table 4.5.1-1.

Where utility trenches cross underneath buildings, we recommend that a plug be placed within the trench backfill to help prevent the normally granular bedding materials from acting as a conduit for water to enter beneath the building. The plug should be constructed using a sand-cement slurry (minimum 28-day compressive strength of 500 pounds per square inch (psi)) or relatively impermeable native soil for pipe bedding and backfill. We recommend that the plug extends for a distance of at least 3 feet in each direction from the point where the utility enters the building perimeter.

Jetting of backfill is not an acceptable means of compaction. Controlled density fill is also suitable for pipe zone and trench zone backfill.

4.5.3 Landscape Fill

We recommend processing, placing, and compacting fill in landscaped areas in accordance with the “General Fill” material in Table 4.5.1-1, except it should be compacted to at least 85 percent relative compaction.

4.6 GUIDELINES FOR GRADED SLOPES

In general, the following slope gradient guidelines may be applied for preliminary grading design of both permanent cut and fill slopes. The contractor is responsible to construct temporary construction slopes in accordance with Cal/OSHA requirements. Slopes steeper than 3:1 (horizontal:vertical) should be constructed with drainage benches at widths and intervals as recommended in the current California Building Code.

TABLE 4.6-1: Slope Specifications

ALLOWABLE SLOPE GRADIENT (horizontal:vertical)	MAXIMUM ALLOWABLE SLOPE HEIGHT (feet)	
	GENERAL FILL	BEDROCK CUT
2:1	10	10
2½:1	15	20
3:1	>15	>20

Depending on materials used to construct fill slopes or rebuild cut slopes, it may be necessary to incorporate additional slope stabilization techniques such as the use of geogrid reinforcement within the slope to enhance long-term stability. Graded cut and fill slopes exceeding 30 feet in height should include benches and/or concrete ditches, as designed by a civil engineer.

4.7 SITE DRAINAGE

The project civil engineer is responsible for designing surface drainage improvements. With regard to geotechnical engineering issues, we recommend that finish grades be sloped away from buildings and pavements to the maximum extent practical to reduce the potentially damaging effects of expansive soil. The latest California Building Code Section 1804.4 specifies minimum slopes of 5 percent away from foundations. Where lot lines or surface improvements restrict meeting this slope requirement, we recommend that specific drainage requirements be developed. As a minimum, we recommend the following.

1. Discharge roof downspouts into closed conduits and direct away from foundations to appropriate drainage devices.
2. Consider the use of rear lot surface drainage collection systems to reduce overland surface drainage from back to front of lot.

4.8 STORMWATER BIORETENTION AREAS

Infiltration testing was not included in our scope as part of this geotechnical exploration. Based on Site soil and the groundwater table encountered, the Site is likely unsuitable for infiltration.

If bioretention areas are planned at grade, we recommend that, when practical, they be placed a minimum of 5 feet away from the building and other structural Site improvements, such as streets, retaining walls, and sidewalks/driveways. When this is not practical, bioretention areas located within 5 feet of structural Site improvements can either:

1. Be constructed with structural side walls capable of withstanding the loads from the adjacent improvements, or
2. Incorporate filter material compacted in accordance with Section 4.5. and a waterproofing system designed to reduce the potential for moisture transmission into the subgrade soil beneath the adjacent improvement.

In addition, Site improvements located adjacent to bioretention areas that are underlain by baserock, sand, or other imported granular materials, should be designed with a deepened edge that extends to the bottom of the imported material underlying the improvement.

Where adjacent Site improvements include streets steeper than 3 percent or design elements that will experience lateral loads (such as from impact or traffic), additional design considerations may be required. In addition, although not recommended, if trees are to be planted within bioretention areas, HDPE Tree Boxes that extend below the bottom of the bioretention system should be installed to reduce potential impact to subdrain systems that may be part of the bioretention area design. For this condition, the waterproofing system should be connected to the HPDE Tree Box with a waterproof seal.

5.0 PRELIMINARY FOUNDATION DESIGN

In order to accommodate the potentially expansive soil, we recommend the residential buildings be supported on a post-tensioned mat, as discussed below.

5.1 POST-TENSIONED MAT FOUNDATION

We recommend that the proposed residential structures be supported on post-tensioned (PT) mat foundations bearing on engineered fill. On a preliminary basis, we recommend that PT mats be a minimum of 10 to 12 inches thick or greater and have a thickened edge at least 2 inches greater than the mat thickness. The structural engineer should determine the actual PT mat thickness using the geotechnical recommendations in the design-level geotechnical report. We recommend that the thickened edge be at least 12 inches wide.

PT mats may be designed for an average allowable bearing pressure of up to 1,000 pounds per square foot (psf) for dead-plus-live loads with maximum localized bearing pressures of 1,500 psf at column or wall loads. Allowable bearing pressures can be increased by one-third for wind or seismic loads.

5.1.1 Building Pad Preparation

The building pads should be uniform. For planning purposes, we recommend the pad surface should be moisture conditioned and compacted in accordance with General Fill in Section 4.5 prior to foundation construction; this moisture conditioning and compaction should be checked by our representative. The subgrade should not be allowed to dry prior to concrete placement.

5.1.2 Slab Moisture Vapor Reduction

When buildings are constructed with concrete slab-on-grade, such as post-tensioned mats, water vapor from beneath the slab will migrate through the slab and into the building. This water vapor can be reduced but not stopped. Vapor transmission can negatively affect floor coverings and lead to increased moisture within a building. When water vapor migrating through the slab would be undesirable, we recommend the following to reduce, but not stop, water vapor transmission upward through the slab-on-grade.

1. Install a vapor retarder membrane directly beneath the slab. Seal the vapor retarder at all seams and pipe penetrations. Vapor retarders shall conform to Class A vapor retarder in accordance with ASTM E1745, latest edition, “Standard Specification for Plastic Water Vapor Retarders used in Contact with Soil or Granular Fill under Concrete Slabs.”

2. Concrete shall have a concrete water-cement ratio of no more than 0.50.
3. Provide inspection and testing during concrete placement to check that the proper concrete and water-cement ratio are used.

5.1.3 Shallow Foundation Lateral Resistance

Lateral loads may be resisted by friction along the base and by passive resistance along the sides of foundations. The passive pressure is based on an equivalent fluid pressure in pounds per cubic foot (pcf). We recommend the following ultimate values for design.

- Passive Lateral Resistance: 250 pcf
- Coefficient of Friction: 0.30

5.2 PRELIMINARY RETAINING WALL RECOMMENDATIONS

Unrestrained walls constructed on level and sloped foregrounds should be designed for active lateral fluid pressure as provided below.

TABLE 5.2-1: Active Earth Pressure (Drained)

BACKFILL SLOPE CONDITION	ACTIVE PRESSURE (pcf)
Level	40
3:1	45
2:1	50

Passive pressures acting on foundations and shear keys may be assumed as 250 pcf, provided that the area in front of the retaining wall is level for a distance of at least 10 feet or three times the depth of foundation and keyway, whichever is greater. The upper 1 foot of soil should be excluded from passive pressure computations, unless it is confined by pavement or a concrete slab. The friction factor for sliding resistance may be assumed as 0.30. On a preliminary basis, the retaining wall footings may be planned using an allowable bearing pressure of 2,000 psf in firm native materials or fill. The footings should be at least 24 inches below lowest adjacent grades.

The above lateral earth pressures assume sufficient drainage behind the walls to prevent any build-up of hydrostatic pressures from surface water infiltration and/or a rise in the groundwater level. If adequate drainage is not provided, we recommend that an additional equivalent fluid pressure of 40 pcf be added to the values recommended. Damp-proofing of the walls should be included in areas where wall moisture would be problematic.

5.2.1 Retaining Wall Drainage

Either graded rock drains or geosynthetic drainage composites should be constructed behind the retaining walls to reduce hydrostatic lateral forces. For rock drain construction, we recommend two types of rock drain alternatives.

1. A minimum 12-inch-thick layer of Class 2 Permeable Filter Material (Caltrans Specification 68-2.02F) placed directly behind the wall, or
2. A minimum 12-inch-thick layer of washed, crushed rock with 100 percent passing the ¾-inch sieve and less than 5 percent passing the No. 4 sieve. Envelop rock in a minimum 6-ounce, non-woven geotextile filter fabric.

For both types of rock drains:

1. The rock drain should be placed directly behind the walls of the structure.
2. The rock drains should extend from the wall base to within 12 inches of the top of the wall.
3. A minimum of 4-inch-diameter perforated pipe (glued joints and end caps) should be placed at the base of the wall, inside the rock drain and fabric, with perforations placed down.
4. The pipe should be placed at a gradient at least 1 percent to direct water away from the wall by gravity to a drainage facility.

We should review and approve geosynthetic composite drainage systems prior to use.

5.2.2 Backfill

Backfill behind the retaining walls should be placed and compacted in accordance with Section 4.5 as low-plasticity import fill. Use light compaction equipment within 5 feet of the wall face. If heavy compaction equipment is used, the walls should be temporarily braced to avoid excessive wall movement.

6.0 PRELIMINARY PAVEMENT DESIGN

6.1.1 Flexible Pavement

For preliminary planning purposes, a resistance value (R-value) of 5 was selected. We developed the following recommended pavement sections using Topic 633 of the 2021 Caltrans Highway Design Manual (including the asphalt factor of safety), and traffic indices varying from 5 to 7, presented in the table below.

TABLE 6.1.1-1: Preliminary Hot Mix Asphalt Concrete Pavement Sections

TRAFFIC INDEX	SECTION	
	HOT MIX ASPHALT (inches)	CLASS 2 AGGREGATE BASE (inches)
5	3	10
6	3 ½	13
7	4	16

The civil engineer should determine the appropriate traffic indexes based on the estimated traffic loads and frequencies.

These sections are for estimating purposes only. Actual sections to be used should be based on R-value tests performed on samples of actual subgrade materials recovered at the time of grading. Pavement construction and all materials should comply with the requirements of the Standard Specifications of the State of California Department of Transportation, civil engineer, and appropriate public agency.

7.0 DESIGN-LEVEL GEOTECHNICAL REPORT

This report presents findings, conclusions, and preliminary geotechnical recommendations intended for planning purposes only. Future design-level geotechnical explorations should be performed when development plans are finalized. We anticipate the design-level geotechnical report will include:

- Additional borings and test pits with soil sample collection to support design-level recommendations.
- Additional laboratory testing, including, but not limited to, moisture content, unit weight, plasticity index, gradation, strength, and corrosivity testing.
- Design-level assessment of slope stability for cut and fill slopes.
- Design recommendations for foundations.
- Design-level earthwork, improvement design, and construction recommendations.
- Development of corrective grading plans and cross sections.

8.0 LIMITATIONS AND UNIFORMITY OF CONDITIONS

This report presents geotechnical recommendations for preliminary design of the 100 Wood Hollow Drive residential project located in Novato, California. If changes occur in the nature or design of the project, we should be allowed to review this report and provide additional recommendations, if any. It is the responsibility of the owner to transmit the information and recommendations of this report to the appropriate organizations or people involved in design of the project, including but not limited to developers, owners, buyers, architects, engineers, and designers. The preliminary conclusions and recommendations contained in this report are solely professional opinions and are valid for a period of no more than 2 years from the date of report issuance.

We strive to perform our professional services in accordance with generally accepted principles and practices currently employed in the area; there is no warranty, express or implied. There are risks of earth movement and property damages inherent in building on or with earth materials. We are unable to eliminate all risks; therefore, we are unable to guarantee or warrant the results of our services.

This report is based upon field and other conditions discovered at the time of report preparation. We developed this report with limited subsurface exploration data. We assumed that our subsurface exploration data is representative of the actual subsurface conditions across the Site. Considering possible underground variability of soil, rock, stockpiled material, and groundwater, additional costs may be required to complete the project. We recommend that the owner establish a contingency fund to cover such costs. If unexpected conditions are encountered, we should be notified immediately to review these conditions and provide additional and/or modified recommendations, as necessary.

Our services did not include excavation sloping or shoring, soil volume change factors, flood potential, or a geohazard exploration. In addition, our geotechnical exploration did not include work to determine the existence of possible hazardous materials. If any hazardous materials are encountered during construction, notify the proper regulatory officials immediately.

This document must not be subject to unauthorized reuse, that is, reusing without our written authorization. Such authorization is essential because it requires us to evaluate the document's applicability given new circumstances, not the least of which is passage of time.

Actual field or other conditions will necessitate clarifications, adjustments, modifications, or other changes to our documents. Therefore, we must be engaged to prepare the necessary clarifications, adjustments, modifications, or other changes before construction activities commence or further activity proceeds. If our scope of services does not include on-site construction observation, or if other persons or entities are retained to provide such services, we cannot be held responsible for any or all claims arising from or resulting from the performance of such services by other persons or entities, and from any or all claims arising from or resulting from clarifications, adjustments, modifications, discrepancies, or other changes necessary to reflect changed field or other condition.

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Appendix J

Phase I Environmental Site Assessment

Phase I Environmental Site Assessment
Office Building
100 Wood Hollow Drive
Novato, California 94945
Project No. T34393

June 5, 2015

Phase I Environmental Site Assessment
Office Building
100 Wood Hollow Drive
Novato, California 94945
Project No. T34393

June 5, 2015

Prepared by:

Tetra Tech, Inc.
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Prepared for:

Lexington Lion Wood Hollow, LP
c/o Environmental Asset Services, Inc. (EASI)
3501 Jamboree Road, Suite 230
Newport Beach, California 92660
Attention: Robert Chute

17885 Von Karman Avenue, Suite 500
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Phone: 949-809-5000
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June 5, 2015

Lexington Lion Wood Hollow, LP
c/o Environmental Asset Services, Inc. (EASI)
3501 Jamboree Road, Suite 230
Newport Beach, California 92660

Attention: Robert Chute

RE: Phase I Environmental Site Assessment
Office Building
100 Wood Hollow Drive
Novato, California 94945
Project No. T34393

Dear Mr. Chute:

Tetra Tech, Inc. (Tetra Tech) appreciates the opportunity to submit this Phase I Environmental Site Assessment (ESA) report (Report) for the above-referenced property (Site) to Clarion Partners, LLC, and Lexington Lion Wood Hollow, LP.

Tetra Tech found no recognized environmental conditions (RECs), controlled RECs (CRECs), historical RECs (HRECs), potential environmental concerns (PECs), or business environmental risks (BERs) in connection with the Site.

It is Tetra Tech's understanding that this Phase I ESA is being requested in conjunction with due diligence activities by Lexington Lion Wood Hollow, LP. Tetra Tech recognizes that this Report is to be used exclusively by Lexington Lion Wood Hollow, LP, and its successors, lenders, and assigns. It is a report upon which Lexington Lion Wood Hollow, LP, and its successors, lenders, and assigns can rely.

We appreciate the opportunity to provide you with these services. Please do not hesitate to contact us at your convenience should you have questions or comments regarding this Report or our findings. It has been a pleasure working with you on this transaction.

Sincerely,

TETRA TECH, INC.

STEVEN GROD
Project Manager
Phone: 949-809-5076

JON R. LOVEGREEN, CEG No. 1164
Manager, Private Practice Group
Phone: 949-809-5060

Enclosures

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PHASE I ENVIRONMENTAL SITE ASSESSMENT
Office Building
100 Wood Hollow Drive
Novato, California 94945
Project No. T34393

1.0 SUMMARY AND CONCLUSIONS

On May 19, 2015, Tetra Tech, Inc. (Tetra Tech) was authorized by Ms. Christina Hill with Clarion Partners, LLC, and Lexington Lion Wood Hollow, LP, to conduct a Phase I Environmental Site Assessment (ESA) of the property referenced as the office building located at 100 Wood Hollow Drive in Novato, California (the Site). The Phase I ESA included visual observation of the Site, inspection of the surrounding properties from curbside, review of historical property ownership and use, review of regulatory listings, review of Internet resources, and interviews with persons knowledgeable about the Site. The following provides a summary of Tetra Tech's findings and conclusions.

The Site is located at the northwestern corner of the intersection of Wood Hollow Drive and Meadow Crest Road in Novato, California. The Site is comprised of one parcel of land totaling approximately 12.9 acres. According to information on file at the Marin County Assessor's office, the Site is designated by Assessor's Parcel Number (APN) 125-202-17.

The Site is improved with an approximate 124,600-square-foot, three-story office building constructed in 2000/2001. The Site building is occupied by multiple professional office-type tenants. Several tenant suites were vacant at the time of the Site reconnaissance. No areas of significant staining were observed in the Site building. The remainder of the Site is comprised of asphalt-paved driveways and parking areas, concrete walkways, landscaping (trees, shrubs, flowering plants, and grass), and undeveloped areas covered with native vegetation (trees and grasses). No areas of staining considered to be significant were observed. No areas of stressed vegetation were observed.

None of the following features were observed at the Site during the Site visit: clarifiers, oil/water separators, lifts/hoists, trench drains, wastewater treatment systems, pits, ponds, lagoons, pools of liquid or discolored water, pavement patches indicative of removed subsurface features or subsurface investigation/remediation, evidence of filling, evidence of dumping/burning trash or other materials, and wells (dry wells, water supply wells, monitoring wells, extraction wells, injection wells, vapor wells). No strong, pungent, or noxious odors were noted at the Site during the Site visit.

Current use of the Site is not considered to be a recognized environmental condition (REC) (including controlled RECs [CRECs]) or potential environmental concern (PEC).

According to the historical records reviewed, the Site was undeveloped or vacant land with native vegetation (trees and grasses) from at least 1942 to at least 1998, and developed with the existing Site building in 2000/2001. Historical tenants at the Site have included professional office-type tenants.

Hazardous materials noted at the Site included minor amounts of janitorial cleaners, maintenance chemicals for the Site building's heating, ventilation, and air conditioning (HVAC) equipment, and paints, as well as hydraulic fluid (for the elevator system that includes two units, each with an approximate 40-gallon capacity integral aboveground storage tank [AST]), and diesel fuel (for the emergency generator with an approximate 500-gallon capacity integral AST). No areas of staining considered to be significant were observed in the areas of hazardous materials storage and use.

Fluorescent lighting (bulbs/tubes) was observed throughout the Site. Fluorescent bulbs/tubes contain mercury. No evidence of damage to or leakage from the fluorescent bulbs/tubes was observed during the Site visit. The presence of fluorescent lighting is considered to be a *de minimis* condition.

Site observations and the information reviewed for this assessment did not indicate RECs (including CRECs), historical RECs (HRECs), PECs, or business environmental risks (BERs) associated with the Site regarding environmental liens, activity use limitations (AULs), ASTs, underground storage tanks (USTs), current hazardous materials usage, solid waste management, current hazardous waste management, polychlorinated biphenyls (PCBs), mercury, water supply, wastewater, storm water, radon, air emissions, dry cleaners, microbial growth and moisture intrusion, or environmental non-compliance issues.

The inspection of the abutting properties from curbside and a review of federal, state, and local regulatory agency databases/records did not reveal the presence of off-Site sources that are considered to be RECs (including CRECs) or PECs to the Site at this time.

According to regulatory agency records for an adjacent property (777 San Marin Drive), depth to groundwater at this facility was 8.4 to 11.9 feet below ground surface (bgs) and the groundwater flow direction was to the east-southeast.

1.1 FINDINGS, OPINIONS, and CONCLUSIONS

Tetra Tech has performed a Phase I ESA in general conformance with the scope of work cited in 40 Code of Federal Regulations (CFR) §312, et al., and American Society of Testing and Materials (ASTM) Standard Practice E1527-13 (including all appropriate inquiry [AAI]) of the property referenced as the office building at 100 Wood Hollow Drive in Novato, California (the Site). Any exceptions to, or deletions from, the scope of work in 40 CFR §312 or ASTM Standard Practice E1527-13 are described in this Report where applicable.

Based on the information gathered during the performance of this assessment, and Tetra Tech's understanding of current regulatory guidelines and judgment, the following conclusions have been reached:

- No RECs (including CRECs), HRECs, PECs, or BERs have been found in connection with the Site.
- The presence of mercury-containing fluorescent lighting is considered to be *de minimis* condition.
- No off-Site facilities are considered to be RECs (including CRECs) to the Site at this time.

2.0 INTRODUCTION

On May 19, 2015, Tetra Tech, Inc. (Tetra Tech) was authorized by Ms. Christina Hill with Clarion Partners, LLC, and Lexington Lion Wood Hollow, LP, to conduct a Phase I Environmental Site Assessment (ESA) of the property referenced as the office building located at 100 Wood Hollow Drive in Novato, California (the Site).

Tetra Tech conducted this assessment in general accordance with the scope and limitations of 40 Code of Federal Regulations (CFR) §312, et al., and the American Society of Testing and Materials (ASTM) Standard Practice E1527-13 document entitled, "Standard Practice for Environmental Assessments: Phase I Environmental Site Assessment Process," including all appropriate inquiry (AAI) and, the Environmental Asset Services, Inc. (EASI) document entitled, "Scope of Work for Performance of Phase I Environmental Site Assessments" dated November 2013.

2.1 PURPOSE AND SCOPE OF SERVICES

The primary purpose of this assessment was to identify recognized environmental conditions (RECs) in connection with the Site. ASTM defines RECs as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. *De minimis* conditions are not recognized environmental conditions." Where used in this Phase I ESA report (Report), the term REC includes controlled RECs (CRECs).

Information on the Site boundaries was obtained from publicly accessible information from the Marin County Assessor and observations made during the Site vicinity reconnaissance for boundary features, such as driveways, roads, adjacent buildings, etc. It is outside the scope of this Phase I ESA, however, to independently verify Site boundaries, and all references to the Site boundaries are considered approximate.

The assessment included a visual reconnaissance of the Site, visual inspection of the surrounding properties from curbside, review of historical ownership and use, review of regulatory listings, and interviews with persons knowledgeable about the Site, as applicable. The following provides a more detailed description of the scope of services:

- Visual inspection of the Site to identify potential for on-Site oil or hazardous material release(s).
- Visual inspection of the Site to evaluate the likelihood that polychlorinated biphenyls (PCBs) are present (i.e., in transformers and fluorescent light ballasts).
- Visual inspection and categorization of the use of abutting and adjacent properties.
- Review of local records related to historical ownership, usage, and Site development. This also included interviewing local environmental authorities, as applicable, to obtain information regarding complaints, violations, citations, or inspections related to the Site.

- Review of published federal regulatory records related to on-Site activities and to potential off-Site sources of oil or hazardous material impacts. Federal records reviewed include the following:

    - National Priorities List (NPL)
    - Delisted NPL
    - Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)
    - CERCLIS No Further Remedial Action Planned (NFRAP)
    - Resource Conservation and Recovery Act (RCRA) Corrective Action Sites (CORRACTS)
    - Treatment, Storage and Disposal (TSD) facilities
    - Generators (LQG, SQG)
    - Institutional Controls/Engineering Controls
    - Emergency Release Notification System (ERNS)

- Review of readily available state and tribal regulatory records and publications for environmental activities related to the Site and potential off-Site sources of oil or hazardous material impacts. State and tribal records reviewed include the following:

    - State Equivalent NPL (Envirostor, Hist Cal-Sites, CA Bond Ex. Plan)
    - State Equivalent CERCLIS (Response)
    - Landfill and/or Solid Waste Disposal
    - Leaking Underground Storage Tanks (LUST)
    - UST
    - Institutional Controls/Engineering Controls
    - Voluntary Cleanup
    - Brownfields

- Review of proprietary records maintained by Environmental Data Resources, Inc. (EDR).

- Review of readily available historic Site documents to assess for potential on-Site sources of oil or hazardous material impacts.

- Review of readily available aerial photos for the Site and Site vicinity to evaluate present and historical development/facilities.

- Review of readily available plans and documents relative to construction materials utilized at the Site and any historical renovation activities.

- Visual inspection of the interior and exterior of Site structure to note the presence or absence of suspect asbestos-containing materials (ACMs) and lead-based paint (LBP) and other lead-containing materials (LCMs), and to note the presence of obvious (visual or olfactory) mold conditions or water damage.

- Preparation of a Phase I ESA report.

2.2 SIGNIFICANT ASSUMPTIONS, LIMITATIONS AND EXCEPTIONS, SPECIAL TERMS AND CONDITIONS

2.2.1 Significant Assumptions

Information provided by others to Tetra Tech is assumed to be accurate and complete. When provided, Tetra Tech has made reasonable inquiry into the accuracy of such information. Unless such inquiry indicated otherwise, the information was considered to be accurate and complete. As discussed below in this Section 2.2, there are limitations to this assumption.

There were no other significant assumptions made during the conduct of this Phase I ESA.

2.2.2 Limitations and Exceptions

Tetra Tech did not significantly delete or deviate from the scope and limitations set forth in the ASTM Standard Practice E1527-13 document entitled, "Standard Practice for Environmental Assessments: Phase I Environmental Site Assessment Process," except for the following:

- Tetra Tech's visual inspection for suspect ACMs, suspect LBP and other LCMs, and obvious mold/microbial growth/moisture accumulation or water damage was limited to observations in readily and physically accessible areas of the Site.

- Tetra Tech's assessment of the potential presence of radon and wetlands at the Site was limited to review of reasonably ascertainable information.

Our professional services have been performed, our findings obtained, and our conclusions prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties, either expressed or implied. Tetra Tech is not responsible for the independent conclusions, opinions, or recommendations made by others based on the records review, Site inspection, field exploration, and laboratory test data presented in this Report.

It should be noted that all surficial environmental assessments are inherently limited in the sense that conclusions are drawn from information obtained from limited research and Site evaluation. Subsurface conditions were not field investigated as part of this study and may differ from the conditions implied by the surficial observations. Additionally, the passage of time may result in a change in the environmental characteristics at this Site and surrounding properties. This Report does not warrant against future operations or conditions, nor does this warrant operations or conditions present of a type or at a location not investigated. This Report is not a regulatory compliance audit.

This assessment is not intended to assess if any soil contamination, waste emplacement, or groundwater contamination exists by subsurface sampling through the completion of soil borings and the installation of monitoring wells. The scope of work, determined by the client, did not include these activities.

Tetra Tech reviewed past ownership of the Site with the intent to evaluate past Site usage. Tetra Tech is not a professional title insurance firm and makes no guarantee, either explicit or implied, that the listing which was reviewed represented a comprehensive delineation of past Site ownership or tenancy for legal purposes.

Certain information contained in this Report may have been rightfully provided to Tetra Tech by third parties or other outside sources. When provided, Tetra Tech has made reasonable inquiry into the accuracy of such information; however, Tetra Tech does not make any warranties or representations,

whether expressed or implied, regarding the accuracy of such information, and shall not be held accountable or responsible in the event that any such inaccuracies are present.

2.2.3 Special Terms and Conditions

There were no special terms or conditions associated with this Phase I ESA.

2.3 USER RELIANCE

It is Tetra Tech's understanding that this Phase I ESA is being requested in conjunction with due diligence activities by Lexington Lion Wood Hollow, LP. Tetra Tech recognizes that this Report is to be used exclusively by Lexington Lion Wood Hollow, LP, and its successors, lenders, and assigns. It is a report upon which Lexington Lion Wood Hollow, LP, and its successors, lenders, and assigns can rely.

3.0 PROPERTY DESCRIPTION

3.1 SITE RECONNAISSANCE

The Site visit was conducted by Tetra Tech representative, Mr. Mark Duffy, on May 27, 2015. Mr. Duffy was accompanied by Mr. Willie Newman with CBRE (the property management company) during the Site visit. The weather during the Site visit was characterized by cloudy overcast skies with a temperature of approximately 65 degrees Fahrenheit.

In addition to the Site visit, resources such as geologic maps, wetlands maps, United States Geological Survey (USGS) topographic maps, aerial photographs, and regulatory agency records pertaining to the Site and surrounding properties were reviewed if reasonably ascertainable.

3.2 GENERAL SITE CONDITIONS

The Site is located at the northwestern corner of the intersection of Wood Hollow Drive and Meadow Crest Road in Novato, California. The Site is comprised of one parcel of land totaling approximately 12.9 acres. According to information on file at the Marin County Assessor's office, the Site is designated by Assessor's Parcel Number (APN) 125-202-17. The Site location is shown on Figure 1 – Site Location Map.

None of the following features were observed at the Site during the Site visit: clarifiers, oil/water separators, lifts/hoists, trench drains, wastewater treatment systems, pits, ponds, lagoons, pools of liquid or discolored water, pavement patches indicative of removed subsurface features or subsurface investigation/remediation, evidence of filling, evidence of dumping/burning trash or other materials, and wells (dry wells, water supply wells, monitoring wells, extraction wells, injection wells, vapor wells). No strong, pungent, or noxious odors were noted at the Site during the Site visit.

3.3 SITE IMPROVEMENTS

The Site is improved with an approximate 124,600-square-foot, three-story office building constructed in 2000/2001. For a layout of the Site, please refer to Figure 2 – Site Map.

3.3.1 Exterior Improvements

The remainder of the Site is comprised of asphalt-paved driveways and parking areas, concrete walkways, landscaping (trees, shrubs, flowering plants, and grass), and undeveloped areas covered with native vegetation (trees and grasses). No areas of staining considered to be significant were observed. No areas of stressed vegetation were observed.

3.3.2 Building Description

The Site building is of steel frame construction, with a concrete slab-on-grade foundation and a flat built-up composition roof over metal decking and a concrete pad. Heating, ventilation, and air conditioning (HVAC) equipment is on the roof of the building. Two hydraulic elevators, each system with an approximate 40-gallon hydraulic oil aboveground storage tank (AST), are present in the Site building. All three floors of the building are office space, with the occupied portions of the building being used by tenants for administrative activities. Common area multiple-occupancy men's and women's restrooms are on each floor. Offices and an elevator machine room (containing the hydraulic oil ASTs) are located on

the first floor. The building has no basement. Observed interior finishes included painted drywall, carpet, ceramic floor tile, vinyl floor tile, cove base, and acoustic ceiling tile. The building exterior is finished with exterior insulation finishing system (EIFS) tilt-up panels. The observed building areas appeared to be in generally good condition.

3.3.3 Utilities

The following utilities are provided to the Site:

Water:	Marin Municipal Water Department (MMWD).
Sewer:	MMWD.
Electricity:	Pacific Gas and Electric (PG&E).
Natural Gas:	PG&E.

No information on other on-Site utilities, such as dry wells, septic systems, cesspools, irrigation wells, or drinking water wells, was found during this assessment.

3.4 CURRENT SITE USE

The Site building is occupied by multiple professional office-type tenants, including the following:

- Biomarin Pharmaceuticals, Inc. (entire third floor)
- EOS USA (Suite 200)
- Marin Medical Practice Concept (Suite 160)

Several tenant suites were vacant at the time of the Site reconnaissance.

No areas of surficial staining considered to be significant were observed in the Site building. Current use of the Site is not considered to be a REC (including CRECs) or potential environmental concern (PEC) to the Site.

3.5 ENVIRONMENTAL SETTING

3.5.1 Topography

The location of the Site is shown on the 1980 (photo revised from 1954) USGS Petaluma and Novato, California, quadrangle topographic maps. According to the contour lines on the topographic maps, the Site is located at an elevation ranging from approximately 20 to 160 feet above mean sea level (msl). The topography in the near vicinity of the Site slopes downward to the south.

3.5.2 Subsurface Geologic Conditions

The Site is located within the Novato Valley Groundwater Basin (California Department of Water Resources [CADWR], 2004). The Novato Valley Groundwater Basin is located within a structural depression in the Coast Ranges west of San Pablo Bay and north of San Raphael. The basin is bounded on the north by San Antonio Creek and on the west by the Mendocino Range. Groundwater occurs primarily in alluvial deposits of Pleistocene to Holocene Age, which unconformably overlie non-water bearing rocks of the Franciscan assemblage. The alluvial deposits are comprised of unconsolidated clay, silt, and sand with discontinuous lenses of gravel.

According to the United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS), Web Soil Survey, soils in the Site area are comprised of the Clear Lake clay series (clay) and the Los Osos-Bonnydoon complex series (loam, clay).

3.5.3 Groundwater Depth and Flow Direction

According to a Site Closure Summary (California Regional Water Quality Control Board – San Francisco Bay Region [SFBRWQCB], 1996a) for the adjacent Fireman's Fund Insurance Company property at 777 San Marin Drive, depth to groundwater at this facility was 8.4 to 11.9 feet below ground surface (bgs) and the groundwater flow direction was to the east-southeast.

4.0 HISTORICAL RECORDS REVIEW

Past land uses were reviewed to evaluate if historical practices or conditions may have negatively impacted the Site. This was accomplished via information obtained from Mr. Newman during the Site visit, review of ownership records, agency records, and historical city directories, and a review and analysis of aerial photographs and topographic maps for the Site and immediate vicinity.

4.1 PRIOR OWNERSHIP

Chain-of-title information for the Site parcel contained in the Environmental Lien and Other Activity Use Limitations (AULs) Search report obtained from Texas Environmental Research is presented below in Table 4.1.

Table 4.1 – Prior Ownership of the Site

Year	Grantor	Grantee
1939	Henry and Ruth Huebner	Lester and Gertrude Swinson
1945	Lester and Gertrude Swinson	Robert Noble
1952	Robert Noble	Edwin Horwitz
1961	Edwin Horwitz	Daniel Webb
1974	Daniel Webb	Patricia Webb
1986	Patricia Webb Estate	San Marin Business Park L.L.C.
1998	San Marin Business Park L.L.C.	Gateway Financial Corporation
2000	Gateway Financial Corporation	Wood Hollow L.L.C.
2003	Wood Hollow L.L.C.	Lexington Wood Hollow

No other information regarding ownership prior to 1939 was reasonably ascertainable from the Marin County Assessor's office.

4.2 PRIOR SITE AND SURROUNDING PROPERTIES USES

Prior uses of the Site and surrounding properties were obtained from review of agency records and historical information obtained from EDR (aerial photographs, city directories, and topographic maps; no Sanborn fire insurance maps showing the Site and surrounding properties were found). Table 4.2 below is a summary of historical information obtained from EDR (provided in Appendix C). Information from the other historical sources is included in the summary at the end of this section and is discussed in more detail in other sections of this Report.

Table 4.2 – Prior Uses of Site and Surrounding Properties

Decade Starting	Site	Surrounding Properties	Sources
1910	Undeveloped or vacant land.	Undeveloped or vacant land. Wood Hollow Drive was depicted as an unpaved road.	T (1914)
1920	No sources found.	No sources found.	N/A
1930	No sources found.	No sources found.	N/A
1940	Undeveloped or vacant land with native vegetation (trees and grasses).	N: Undeveloped or vacant land with native vegetation (trees and grasses). E: Undeveloped or vacant land with native vegetation (trees and grasses). S: Beyond Wood Hollow Drive,	A (1942) T (1942)

Table 4.2 – Prior Uses of Site and Surrounding Properties			
Decade Starting	**Site**	**Surrounding Properties**	**Sources**
		undeveloped or vacant land with native vegetation (trees and grasses). W: Undeveloped or vacant land with native vegetation (trees and grasses).	
1950	No significant changes noted.	N: No significant changes noted. E: No significant changes noted. S: No significant changes noted. W: No significant changes noted.	A (1952) T (1954)
1960	No significant changes noted.	N: No significant changes noted. E: No significant changes noted. S: No significant changes noted. W: No significant changes noted.	A (1968) T (1968)
1970	No significant changes noted. No city directory listings for the Site.	N: No significant changes noted. E: No significant changes noted. S: No significant changes noted. Wood Hollow Drive had been paved by 1973. W: No significant changes noted. No city directory listings for adjacent surrounding properties.	A (1973) CD (1975) T (1973)
1980	No significant changes noted. No city directory listings for Site.	N: No significant changes noted. E: No significant changes noted. S: By 1982, the adjacent office campus beyond Wood Hollow Drive was under construction. City directory listing for Fireman's Fund Insurance (street address numbers not designated yet on San Marin Drive). W: No significant changes noted.	A (1982) CD (1980, 1985) T (1980)
1990	No significant changes noted. No city directory listings for Site.	N: No significant changes noted. E: No significant changes noted. S: By 1993, the existing office campus buildings (three in total) were depicted. City directory listings for multiple professional office-type tenants (777 San Marin Drive). W: By 1993, one existing single-family residence was depicted. By 1998, the three existing single-family residences were depicted.	A (1993, 1998) CD (1992, 1995, 1999)
2000	By 2005, the existing building was depicted. City directory listings for multiple professional office-type tenants (100 Wood Hollow Drive).	N: No significant changes noted. E: No significant changes noted. S: No significant changes noted. City directory listings for multiple professional office-type tenants (773 and 777 San Marin Drive). W: No significant changes noted.	A (2005, 2006, 2009) CD (2003, 2008)
2010	No significant changes noted. City directory listings for multiple professional office-type tenants (100 Wood Hollow Drive).	N: No significant changes noted. E: No significant changes noted. S: No significant changes noted. City directory listings for multiple professional office-type tenants (773 and 777 San	A (2010, 2012) CD (2013)

Table 4.2 – Prior Uses of Site and Surrounding Properties			
Decade Starting	**Site**	**Surrounding Properties**	**Sources**
		Marin Drive). W: No significant changes noted.	
N = north, E = east, S = south, W = west Sources: A = aerial photograph (year in parentheses), CD = city directory abstract (year in parentheses), T = topographic map (year in parentheses), and N/A = not applicable (no sources found). No Sanborn Fire Insurance Maps depicting the Site and surrounding properties were found.			

According to the historical records reviewed (EDR records and agency records), the Site was undeveloped or vacant land with native vegetation (trees and grasses) from at least 1942 to at least 1998 and was developed with the existing Site building in 2000/2001. Historical tenants at the Site have included professional office-type tenants.

4.3 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Tetra Tech requested previous environmental investigation reports for the Site from Clarion Partners, LLC, and Lexington Lion Wood Hollow, LP. No previous environmental investigation or assessment reports were provided to Tetra Tech, and none were found by Tetra Tech during this Phase I ESA.

5.0 REGULATORY REVIEW

5.1 STANDARD ENVIRONMENTAL RECORD SOURCES

Tetra Tech procured and reviewed a computer-generated database report from EDR. The EDR database report is provided in Appendix B. A review of databases and files from federal, state, and local environmental regulatory agencies was conducted to identify use, generation, storage, treatment or disposal of hazardous materials and chemicals, or release incidents of such materials which may impact the Site. The databases discussed in the following section address ASTM requirements. Additional federal and state databases were reviewed. Please refer to the EDR database report for a detailed listing.

Included in the EDR database report is an orphan summary. This summary lists facilities that are contained on one of the above-referenced databases or lists, but for which complete or accurate geographic data was not available. Consequently, EDR was unable to map such facilities in relation to the Site. This list was reviewed during Site reconnaissance to evaluate whether the properties referenced are within ASTM search distances. Properties within ASTM distances were incorporated into Tetra Tech's review.

A summary of the EDR database report information is provided in Table 5.1.

Table 5.1 – EDR Database Summary

Database	Radius	Target Property	Surrounding Facilities
Federal			
National Priorities List (NPL)	1 Mile	No	0
Proposed NPL	1 Mile	No	0
Delisted NPL	1 Mile	No	0
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)	½ Mile	No	0
CERCLIS No Further Remedial Action Planned Sites (NFRAP)	½ Mile	No	0
Resource Conservation and Recovery Act (RCRA) Corrective Action Treatment, Storage, and Disposal (TSD) Facilities (CORRACTS)	1 Mile	No	0
RCRA Non-Corrective Action (TSD) Facilities	½ Mile	No	0
RCRA Waste Generators	Site & adjacent	No	0
RCRA Non-Generator (NonGen)	Site & adjacent	No	0
US Brownfields	½ Mile	No	0
Institutional Control/Engineering Control (IC/EC)	Site	No	N/A
Emergency Response Notification System (ERNS)	Site	No	N/A
State and Tribal and EDR Proprietary			
CA Response	1 Mile	No	0
Envirostor	1 Mile	No	0
Solid Waste Facilities/Landfill Sites (SWF/LF)	½ Mile	No	0
Recycling Facilities (SWRCY)	½ Mile	No	0
Leaking Underground Storage Tank (LUST)	½ Mile	No	1
Cortese/Hist Cortese	½ Mile	No	1
Notify 65	1 Mile	No	2

Table 5.1 – EDR Database Summary			
Database	**Radius**	**Target Property**	**Surrounding Facilities**
Aboveground Storage Tank (AST)	Site & adjacent	No	1
Underground Storage Tank (UST) databases	Site & adjacent	No	1
Spills, Leaks, Investigations, and Cleanups (SLIC)	½ Mile	No	0
Voluntary Cleanup Program (VCP)	½ Mile	No	0
Drycleaners	¼ Mile	No	0
Permitted Hazardous Waste Facilities And Corrective Action (HWP)	1 Mile	No	0
Air Emissions (EMI)	Site	No	N/A
Tribal databases	Various	No	0
HIST Cal Sites	1 Mile	No	0
CA Bond Exp. Plan	1 Mile	No	0
TX Industrial Hazardous Waste	¼ Mile	No	0
NY Manifest	¼ Mile	No	0
National Pollutant Discharge Elimination System (NPDES)	Site	No	N/A
EDR Manufactured Gas Plants	1 Mile	No	0
EDR Historical Auto Stations	¼ Mile	No	0
EDR Historical Cleaners	¼ Mile	No	0
EDR Recovered Government Archive (RGA) Landfill	½ Mile	No	0
RGA LUST	½ Mile	No	0

5.1.1 Federal Regulatory Records

According to the EDR database report, the Site and off-Site facilities located within ASTM search distances are not listed on any of the federal databases listed in Table 5.1.

5.1.2 State and Tribal and EDR Proprietary Regulatory Records

According to the EDR database report, the Site is not listed in any of the state, tribal, or EDR proprietary databases listed in Table 5.1.

According to EDR database report, several off-Site facilities located within ASTM search distances are listed on the following State regulatory databases in Table 5.1: LUST, Notify 65, Cortese/Hist Cortese, AST, and UST. The listed adjacent property is discussed below. Refer to the EDR database report in Appendix B for information regarding all of the listings. Based on information contained in the EDR database report, distance from the Site, presumed groundwater flow direction, and/or regulatory agency status, there was no information indicating a REC (including CRECs) to the Site from the off-Site listed facilities.

Fireman's Fund Insurance – 777 San Marin Drive

The Fireman's Fund Insurance property is located adjacent to the south beyond Wood Hollow Drive and east-southeast of the Site. This facility was listed in the HIST Cortese, LUST, CA UST, CA HIST UST, SWEEPS UST, CA FID UST, and AST databases.

This facility was reported in the UST databases as having had six underground storage tanks (USTs), including four 10,000-gallon gasoline USTs, one 12,000-gallon diesel UST, and one 1,000-gallon waste oil UST. It was reported in the LUST database (for leaking USTs) as having had a release of diesel in 1990 that impacted "other groundwater (uses other than drinking water)". The status for the LUST case is "completed – case closed" as of 1998. The HIST Cortese database listing is related to the LUST listing. The AST database listing reported the facility as having ASTs totaling 2,000 gallons in capacity.

Tetra Tech reviewed LUST case records for this property on file at the Marin County Environmental Health Services, Waste Management Division (MCEHS WMD), and on the State Water Resources Control Board's (SWRCB's) GeoTracker website. Tetra Tech also requested records for this LUST case from the SFBRWQCB. The SFBRWQCB representative stated the only records they have on file are also available on the GeoTracker website. It should be noted that the MCEHS WMD records reviewed by Tetra Tech contained SFBRWQCB records not found on the GeoTracker website.

According to the records reviewed, six USTs, including four 10,000-gallon gasoline USTs, one 12,000-gallon diesel UST, and one 1,000-gallon waste oil UST, were located at this facility. The USTs were located in a loading dock area adjacent to and outside of the southeastern side of the building (approximately 700 feet south and crossgradient of the Site). The gasoline and waste oil USTs were removed from the property in May 1995. According to the Site Closure Summary (SFBRWQCB, 1996a) report, upon removal of the five USTs, 280 cubic yards of soil were excavated and confirmation soil samples had low or no detectable concentrations of the following analytes: total petroleum hydrocarbons as gasoline (TPHg); TPH as diesel (TPHd); TPH as motor oil (TPHmo); benzene, toluene, ethylbenzene, and xylenes (BTEX); oil and grease; heavy metals; volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs).

Water found in the UST excavation was sampled and tested for the same analytes tested for in the soil samples, as well as methyl tertiary butyl ether (MTBE). The following maximum concentrations in the water sample were reported (results cited here are in parts per billion [ppb]; equivalent to micrograms per liter [µg/L]): TPHg (28,000 ppb), benzene (760 ppb), toluene (1,000 ppb), ethylbenzene (260 ppb), and xylenes (4,800 ppb). Four quarters of groundwater monitoring were subsequently performed, with the following maximum concentrations reported during the last round of groundwater monitoring: TPHg (1,200 ppb), TPHd (660 ppb – estimated), benzene (2.9 ppb), toluene (26 ppb), ethylbenzene (2 ppb), and xylenes (2.1 ppb) (Harding Lawson Associates [HLA], 1996).

Based on removal of the source of and significant decrease in concentrations of the analytes, a case closure letter dated September 6, 1996, was issued by the SFBRWQCB for the five USTs removed in May 1995 (SFBRWQCB, 1996b).

According to an Underground Storage Tank Closure Report (HLA, 1997) and information in a request for a technical report letter issued by the SFBRWQCB (SFBRWQCB, 1997), the 12,000-gallon diesel UST was removed in July 1997; the UST was replaced with a 2,000-gallon diesel AST. At the time of removal, a release of diesel to the UST excavation occurred. Soil samples were reported to have diesel concentrations of up to 11,000 parts per million (ppm; equivalent to milligrams per kilogram [mg/kg]), and a groundwater sample take from the UST excavation had a diesel concentration of 5,600,000 ppb. Impacted soil was excavated to the extent possible without disrupting fire infrastructure in the area and approximately 300 cubic yards of soil was removed from the property. Approximately 2,500 gallons of groundwater was also pumped from the excavation. The SFBRWQCB approved a work plan for additional investigation; however, no information regarding the additional investigation performed at the facility was found in the records reviewed. A case closure letter dated January 22, 1998, was issued for the diesel UST removed in July 1997 (SFBRWQCB, 1998).

Based on the regulatory status, records reviewed, distance of the former USTs from the Site, the 20 years that have elapsed since the USTs were removed, and groundwater flow direction, this adjacent facility is not considered to be of environmental concern to the Site.

5.2 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

California Environmental Protection Agency, Department of Toxic Substances Control (Cal-EPA DTSC)
Tetra Tech requested records for the Site maintained by the Cal-EPA DTSC. No records were found for the Site.

California Division of Oil, Gas and Geothermal Resources (CADOGGR)
Tetra Tech reviewed the CADOGGR Online Mapping System database. The map depicted no oil or gas wells on the Site. The Site is not located within the limits of a producing or abandoned oil, gas, or geothermal field. No oil or gas wells were found within a 0.25- mile radius of the Site.

National Pipeline Mapping System (NPMS)
Tetra Tech reviewed the NPMS website interactive mapping system for underground pipelines at or adjacent to the Site. No underground pipelines were found at or adjacent to the Site.

California Regional Water Quality Control Board – San Francisco Bay Region (SFBRWQCB)
Tetra Tech requested records for the Site maintained by the SFBRWQCB. No records were found for the Site.

SFBRWQCB records for the LUST case for the adjacent property at 777 San Marin Drive were discussed previously in Section 5.1.2.

Bay Area Air Quality Management District (BAAQMD)
Tetra Tech requested to review records maintained by the BAAQMD. Records were found for the Site. Lexington Lion Wood Hollow, LP, was issued a permit for an emergency generator in 2013. No information of environmental concern was noted.

Marin County Environmental Health Services, Waste Management Division (MCEHS WMD)
Tetra Tech requested records for the Site maintained by the MCEHS WMD. No records were found for the Site.

MCEHS WMD records for the LUST case for the adjacent property at 777 San Marin Drive were discussed previously in Section 5.1.2.

Novato Community Development Department, Building Division (NCDD BD)
Tetra Tech reviewed permit information for the Site at the NCDD BD. Permits observed included a permit for a flag pole in 2002, a permit to install a ductless split system to serve a computer room in 2002, a permit to relocate and reconnect server racks in 2005, and for tenant improvements in 2007. No original building permits were found. No information of environmental concern was noted.

Novato Community Development Department, Planning Division (NCDD PD)
According to NCDD PD information, the Site is located in an area of Novato zoned as Planned District.

Novato Fire Protection District (NFPD)
Tetra Tech requested records for the Site maintained by the NFPD. A response has not been received from the NFPD as of the time of issuance of this Report. Tetra Tech does not expect to receive any information, if records are found for the Site, which will materially change the conclusions and recommendations of this Report. This judgment is based on the historical and current Site uses found during the performance of this assessment.

6.0 ON-SITE ENVIRONMENTAL ASSESSMENT

6.1 STORAGE TANKS

6.1.1 Underground Storage Tanks (USTs)

No visual evidence (i.e., pipes, vents, and dispensers) indicating existing or historic on-Site USTs was observed at the Site. No information from Site history research and review of records and/or databases maintained by federal, state, county, and city agencies revealed the presence of existing or historic USTs at the Site.

6.1.2 Aboveground Storage Tanks (ASTs)

Three ASTs were noted during the Site reconnaissance. As noted previously in Section 3.3.2, two hydraulic elevators, each system with an approximate 40-gallon hydraulic oil AST, are present in the Site building. These ASTs provide hydraulic fluid to the elevators via aboveground piping. The elevator shafts were not accessible at the time of the Site reconnaissance. The third AST, a 500-gallon capacity diesel AST, supplies the Site building's emergency generator with diesel fuel. This single-wall steel AST is located approximately 75 feet northwest of the Site building, within an open-top concrete enclosure. All three ASTs appeared to be in good condition, with no staining or other evidence of spills or releases observed.

No visual evidence (i.e., concrete foundation or containment walls, pedestals, or steel support structures) indicating other existing or historic on-Site ASTs was observed at the Site. No information from Site history research and review of records and/or databases maintained by federal, state, county, and city agencies revealed the presence of existing or other historic ASTs at the Site.

6.2 ASBESTOS-CONTAINING MATERIALS (ACMs)

Based on the years of construction of the Site building (2000/2001), it is unlikely that ACMs are present in the Site building, with the possible exception of roofing materials and any building materials from countries where ACMs are still used in construction. Observed or inferred suspect ACMs at the Site included drywall and associated joint compound, carpet mastic, ceramic floor tile mastic, vinyl floor tile and associated mastic, cove base and associated mastic, acoustic ceiling tile, and roofing materials. The observed Site building areas appeared to be in generally good condition.

6.3 LEAD-BASED PAINT (LBP) AND OTHER LEAD-CONTAINING MATERIALS (LCMs)

Based on the years of construction (2000/2001), it is unlikely that LBP and other LCMs are present in the Site building, with the possible exception of building materials from countries where lead is still used in building materials. The painted surfaces were observed to be in good condition, with no areas of damaged paint noted. Observed ceramic tiles were in good condition.

6.4 HAZARDOUS MATERIALS USAGE

In addition to the ASTs noted in Section 6.1.2 above, hazardous materials observed at the Site included minor amounts of janitorial cleaners, boiler chemicals, and paints, some of which were stored in a small flammable-rated cabinet. No staining or other evidence of spills was observed. No record of other on-

Site hazardous materials usage (other types, current or historical) was found during review of Site records and databases maintained by federal, state, county, and city agencies.

6.5 SOLID WASTE MANAGEMENT

Solid wastes generated at the Site are collected in solid waste collection bins located within an open-top concrete enclosure adjacent to the west of the emergency generator enclosure. Tetra Tech observed no evidence of inappropriate solid waste disposal during this assessment. No staining or evidence of hazardous substance disposal was observed inside or around the solid waste collection bins.

6.6 HAZARDOUS WASTE MANAGEMENT

No hazardous wastes were observed during the Site visit. No record of other on-Site hazardous waste generation, storage, or disposal (current or historical) was found during review of Site records and databases maintained by federal, state, county, and city agencies.

6.7 POLYCHLORINATED BIPHENYLS (PCBs)

One pad-mounted transformer was observed near the southeastern corner of the Site building. No staining or other evidence of leakage associated with the transformer was observed. Since the Site building was constructed in 2000/2001, it is unlikely that the transformer contains PCBs.

Two hydraulic elevators were observed in the Site building. No staining was observed in the elevator machine room on the second floor of the Site building. Since the Site building was constructed in 2000/2001, it is unlikely that the hydraulic oil in the elevators contains PCBs. The transformer is owned by PG&E, which is presumed to be responsible for the clean-up of any leaks or spills from the transformer.

Fluorescent lighting was observed throughout the Site building. Fluorescent light ballasts manufactured prior to 1979 may contain small quantities of PCBs. Due to access limitations, the light ballasts were not examined for labels indicating their PCB content. No evidence of damage to or leakage from the light ballasts was observed during the Site inspection. Considering the Site building was constructed in 2000/2001, it is unlikely that the fluorescent light ballasts contain PCBs.

No other potentially PCB-containing equipment was observed at the Site.

6.8 MERCURY

Fluorescent lighting (bulbs/tubes) was observed throughout the Site building. Fluorescent bulbs/tubes contain mercury. No evidence of damage to or leakage from the fluorescent bulbs/tubes was observed during the Site visit. The presence of fluorescent lighting is considered to be a *de minimis* condition.

6.9 WATER AND WASTEWATER/STORM WATER

6.9.1 Water Supply

Potable water is provided to the Site by the MMWD. Site reconnaissance and review of local records did not reveal the presence of on-Site water supply or irrigation wells. According to the EDR database report, no public water supply wells were reported to be located within a 0.25- mile radius of the Site.

6.9.2 Wastewater

Domestic wastewater generated at the Site is discharged to the MMWD sanitary sewer system.

No industrial wastewater is reported to be currently generated at the Site, and no evidence of industrial wastewater generation was observed during the Site visit.

6.9.3 Storm Water

Storm water is expected to percolate into the unpaved areas at the Site, into on-Site storm water drains with parking and patio areas, and onto surrounding properties and streets located topographically downslope from the Site. Storm water run-off controls (low concrete walls and a concrete swale) were observed at the northern-most point of the parking lot, where storm water flow from a natural drainage is diverted to along the west side of the parking lot. No storm water pollution prevention plan (SWPPP) was found for the Site during the conduct of this assessment. The lack of a SWPPP is not considered to be of concern based on the current usage of the Site.

6.10 SURFACE WATER AND WETLANDS

No surface water or wetland areas were observed on or adjacent to the Site. No wetlands areas were depicted on or adjacent to the Site during review of the United States Fish and Wildlife Service (USFWS) website interactive mapping service.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs) depicting the Site, Panel Nos. 06041C 0277D and 06041C 0175D, the Site is located in Zone X (unshaded). According to FEMA website information, Zone X (unshaded) includes areas outside of the 0.2% annual chance flood (500-year flood).

6.11 RADON

The Site is located within a Zone 3 radon area, indicating that the average indoor radon level is less than 2.0 picoCuries (pCi/L) of air. The United States Environmental Protection Agency (USEPA) action level for radon is 4.0 pCi/L. According to state residential radon survey information contained in the EDR database report, 29 tests were conducted within Marin County in the same zip code as the Site. All of the tests had radon concentrations below the USEPA action level for radon. According to federal residential radon survey information contained in the EDR database report, six tests were conducted within Marin County. All of these tests had radon concentrations below the USEPA action level for radon.

6.12 AIR EMISSIONS

The BAAQMD-permitted diesel back-up generator is a source of air emissions at the Site; however, it is not used regularly and is not, therefore, considered to be of environmental concern. There were no other current operations involving air emissions observed on the Site. The EDR database report and BAAQMD information did not list the Site with historic or other current air emissions or permits.

6.13 DRYCLEANING OPERATIONS

There were no observed Site operations involving drycleaning operations.

6.14 MICROBIAL GROWTH AND MOISTURE INTRUSION

No evidence of potential microbial growth and/or moisture intrusion was observed at the Site.

6.15 ENVIRONMENTAL NON-COMPLIANCE ISSUES

No environmental non-compliance issues associated with current Site use were noted at the Site. This should not be considered a regulatory compliance audit.

6.16 SITE-SPECIFIC ENVIRONMENTAL ISSUES

No RECs (including CRECs), historical RECs (HRECs), PECs, or business environmental risks (BERs) associated with the Site were found during the performance of this assessment. The following *de minimis* condition was found during this Phase I ESA:

- The presence of mercury-containing fluorescent lighting is considered to be *de minimis* condition.

7.0 REVIEW OF NEARBY/ADJACENT PROPERTIES

The vicinity of the Site can generally be described as a mixed light industrial, commercial, and residential area in Novato, California. The nearest school (Olive Elementary School at 629 Plum Street) is located approximately 1.2 miles southeast of the Site, based on Site vicinity reconnaissance and review of Internet resources. The nearest residential area is located adjacent to the west of the Site based on Site vicinity reconnaissance and/or review of Internet resources. Adjoining properties observed during the Site vicinity reconnaissance are described below.

North: Undeveloped hilly land covered with native vegetation (trees and grasses).

East: Undeveloped hilly land covered with native vegetation (trees and grasses), and Meadow Crest Road, beyond which is undeveloped hilly land covered with native vegetation (trees and grasses).

South: Beyond Wood Hollow Drive are landscaped areas and undeveloped hilly land covered with native vegetation (trees and grasses), beyond which is Campus Drive (private road) followed by an office campus developed with three multi-tenant office buildings (773, 775, and 777 San Marin Drive).

West: Undeveloped hilly land covered with native vegetation (trees and grasses) and single-family residences (123 and 127 Cobblestone Court; 400 Wood Hollow Drive). West of the southern portion of the Site beyond Wood Hollow Drive are single-family residences (3, 7, and 11 Woodgate Place).

The inspection of the abutting properties from curbside and a review of federal, state, and local regulatory agency databases/records did not reveal the presence of off-Site sources that are considered to be RECs (including CRECs) to the Site.

8.0 USER PROVIDED INFORMATION

8.1 LAND TITLE AND JUDICIAL RECORDS FOR ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS (AULs)

No information regarding environmental liens or AULs was provided to Tetra Tech by Lexington Lion Wood Hollow, LP.

Tetra Tech requested a search for environmental liens and AULs for the Site parcel from Texas Environmental Research in accordance with the scope of work for this assessment. No environmental liens or AULs were found for the Site parcel (documentation is provided in Appendix D).

8.2 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

No commonly known or reasonably ascertainable information was provided to Tetra Tech by Lexington Lion Wood Hollow, LP, except for the Site location and address.

8.3 SPECIALIZED KNOWLEDGE OR EXPERIENCE

No specialized knowledge or experience regarding the Site was provided to Tetra Tech by Lexington Lion Wood Hollow, LP.

8.4 ACTUAL KNOWLEDGE

Lexington Lion Wood Hollow, LP, provided Tetra Tech with no other actual knowledge with respect to the Site other than noted above.

8.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

Lexington Lion Wood Hollow, LP, provided Tetra Tech with no information indicating there was a valuation reduction for environmental issues associated with the Site.

8.6 REASONS FOR PHASE I ESA PERFORMANCE

It is Tetra Tech's understanding that this Phase I ESA is being requested in conjunction with due diligence activities by Lexington Lion Wood Hollow, LP.

9.0 INTERVIEWS

9.1 INTERVIEW WITH SITE OWNER

Tetra Tech interviewed the Site owner representative, Ms. Amy Xu with Clarion Partners, LLC. According to Ms. Xu, the Site was undeveloped prior to construction of the existing building, historical and current Site tenants have been office types, the emergency generator is permitted by the BAAQMD, and hazardous materials at the Site include diesel in the emergency generator and maintenance chemicals for the building's HVAC equipment. Ms. Xu has no knowledge of, nor is she aware of the existence of, the following with respect to the Site: environmental clean-up liens, AULs, specialized knowledge other than noted above, or environmental issues (e.g., hazardous substances spills or releases, environmental clean-up, etc.). A copy of the interview questionnaire completed by Ms. Xu is provided in Appendix E.

9.2 INTERVIEW WITH SITE MANAGER

Tetra Tech interviewed Mr. Willie Newman with CBRE (the property management company) during the Site inspection. Information from the interview is included in applicable sections of this Report.

9.3 INTERVIEW WITH OCCUPANTS

Tenants that were present were interviewed regarding usage of the tenant spaces. Information from the interview is included in applicable sections of this Report.

9.4 INTERVIEW WITH PAST OWNERS, OPERATORS, AND OCCUPANTS

Past owners, operators, and occupants could not be contacted by Tetra Tech; therefore, these interviews were not conducted. This is not considered to be a data gap, as information regarding past uses of the Site was obtained from other sources and has been previously discussed.

9.5 INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

Tetra Tech interviewed local government officials at agencies where records for the Site were available and reviewed by Tetra Tech. Additional information from other interviewed government officials is included in the discussion in previous sections of this Report.

9.6 INTERVIEWS WITH OTHERS

No other interviews were conducted with individuals other than those cited above in this Section 9.0.

10.0 FINDINGS, OPINIONS, AND CONCLUSIONS

10.1 FINDINGS, OPINIONS, AND CONCLUSIONS

In the professional opinion of Tetra Tech, an appropriate level of inquiry has been made into the previous ownership and uses of the Site consistent with good commercial and customary practice with the intent to minimize environmental liability. Based on the information cited in this assessment, and Tetra Tech's understanding of current regulatory guidelines and judgment, the following findings, opinions, and conclusions have been drawn (in addition to the conclusion in Section 11.0):

- No RECs (including CRECs), HRECs, PECs, or BERs have been found in connection with the Site.
- The presence of mercury-containing fluorescent lighting is considered to be *de minimis* condition.
- No off-Site facilities are considered to be RECs (including CRECs) to the Site at this time.

11.0 CONCLUSION

In the professional opinion of Tetra Tech, an appropriate level of inquiry has been made into the previous ownership and uses of the Site consistent with good commercial and customary practice with the intent to minimize environmental liability. Based on the information cited in this assessment and Tetra Tech's understanding of current regulatory guidelines and judgment, the following conclusion has been drawn:

- Tetra Tech has performed a Phase I ESA of the property referenced as the office building at 100 Wood Hollow Drive in Novato, California (the Site) in general conformance with the scope of work cited in 40 CFR §312, et al., and ASTM Standard Practice E1527-13. This assessment revealed no evidence of RECs (including CRECs) in connection with the Site.

12.0 DEVIATIONS

There have been no significant deviations from the scope and limitations set forth in the ASTM Standard Practice E1527-13 of which Tetra Tech is aware that would affect the conclusion of this Phase I ESA.

During the conduct of this assessment, there were no data gaps or data failure considered to be significant. Information provided by others to Tetra Tech is assumed to be accurate and complete. When provided, Tetra Tech has made reasonable inquiry into the accuracy of such information. Unless such inquiry indicated otherwise, the information was considered to be accurate and complete. As discussed previously in Section 2.2, there are limitations to this assumption.

13.0 REFERENCES

Documents:

American Society of Testing and Materials (ASTM), "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM Standard Practice E1527-13: dated November 2013.

California Department of Water Resources (CADWR), 2004, California's Groundwater Bulletin 118: dated 2004.

California Regional Water Quality Control Board – San Francisco Bay Region (SFBRWQCB), 1996a, Site Closure Summary, Fireman's Fund Insurance Company, 777 San Marin Drive, Novato, CA: dated September 4, 1996.

Environmental Asset Services, Inc. (EASI), 2013, Scope of Work for Performance of Phase I Environmental Site Assessments: dated November 2013.

Environmental Data Resources, Inc. (EDR), The EDR-Radius Map™ Report with GeoCheck®, 100 Wood Hollow Drive, Novato, CA 94945, Inquiry Number 4303774.2s: dated May 22, 2015.

EDR, The EDR-City Directory Image Report, 100 Wood Hollow Drive, Novato, CA 94945, Inquiry Number 4303774.5: dated May 22, 2015.

Harding Lawson Associates (HLA), 1996, Table 6 – Groundwater Analytical Results, Fireman's Fund Insurance Company, 777 San Marin Drive, Novato, California: dated May 31, 1996. Table 6 was part of the backup provided in the Site Closure Summary by the SFBRWQCB (1996a).

HLA, 1997, Underground Storage Tank Closure Report, Fireman's Fund Insurance Company, 777 San Marin Drive, Novato, California: dated August 6, 1997.

SFBRWQCB, 1996b, Case Closure Letter, Fireman's Fund Insurance Company, 777 San Marin Drive, Novato, CA: dated September 6, 1996.

SFBRWQCB, 1997, Request for a Technical Report Letter, Fireman's Fund Insurance Company, 777 San Marin Drive, Novato, CA: dated October 21, 1997.

SFBRWQCB, 1998, Case Closure Letter, Fireman's Fund Insurance Company, 777 San Marin Drive, Novato, CA: dated January 22, 1998.

Texas Environmental Research, 2015, Environmental Lien and Other Activity Use Limitations (AULs) Search, Parcel 125-202-17, 100 Wood Hollow Drive, Marin County, Novato, California: dated May 25, 2015.

Maps:

EDR, Certified Sanborn® Map Report, 100 Wood Hollow Drive, Novato, CA 94945, Inquiry Number 4303774.3: dated May 22, 2015. No Sanborn maps found depicting the Site.

EDR, EDR Historical Topographic Map Report, 100 Wood Hollow Drive, Novato, CA 94945, Inquiry Number 4303774.4: dated May 22, 2015. Topographic maps dated 1914, 1942, 1954, 1968, 1973, and 1980.

Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map (FIRM), Panel No. 06041C 0277D: dated May 4, 2009.

FEMA, FIRM, Panel No. 06041C 0175D: dated May 4, 2009.

United States Geological Survey (USGS), Petaluma River, California, Quadrangle - 7.5 Minute Series Topographic Map: dated 1980 (photo revised from 1954).

USGS, Novato, California, Quadrangle - 7.5 Minute Series Topographic Map: dated 1980 (photo revised from 1954).

Agencies/Persons Contacted/Records Reviewed:

Bay Area Air Quality Management District (BAAQMD).

California Environmental Protection Agency, Department of Toxic Substances Control (Cal-EPA DTSC).

California Division of Oil, Gas and Geothermal Resources (CADOGGR).

Marin County Environmental Health Services, Waste Management Division (MCEHS WMD).

National Pipeline Mapping System (NPMS).

Newman, Mr. Willie (CBRE).

Novato Community Development Department, Building Division (NCDD BD).

Novato Community Development Department, Planning Division (NCDD PD).

Novato Fire Protection District (NFPD).

(California) State Water Resources Control Board (SWRCB), GeoTracker.

SFBRWQCB.

United States Department of Agriculture (USDA), National Resources Conservation Services (NRCS).

United States Fish and Wildlife Service (USFWS).

Aerial Photographs:

EDR, The EDR Aerial Photo Decade Package, 100 Wood Hollow Drive, Novato, CA 94945, Inquiry Number 4303774.9: dated May 26, 2015. Aerial photographs dated 1942, 1952, 1968, 1973, 1982, 1993, 1998, 2005, 2006, 2009, 2010, and 2012.

14.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Mr. Mark Duffy performed the Site reconnaissance and wrote portions of the Phase I ESA Report. Ms. Tanya MacLean compiled report data and wrote portions of the Phase I ESA Report. Mr. Steven Grod and Mr. Jon Lovegreen provided technical review. The signatures of Ms. MacLean, Mr. Grod, and Mr. Lovegreen are included in this section of the Report.

Tanya MacLean

TANYA MACLEAN
Due Diligence Scientist
Phone: 949-809-5080

STEVEN GROD
Project Manager
Phone: 949-809-5076

JON R. LOVEGREEN, CEG No. 1164
Manager, Private Practice Group
Phone: 949-809-5060

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR §312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

The qualifications of Mr. Duffy, Ms. MacLean, Mr. Grod, and Mr. Lovegreen are summarized in the resumes that are included in Appendix F.

FIGURES

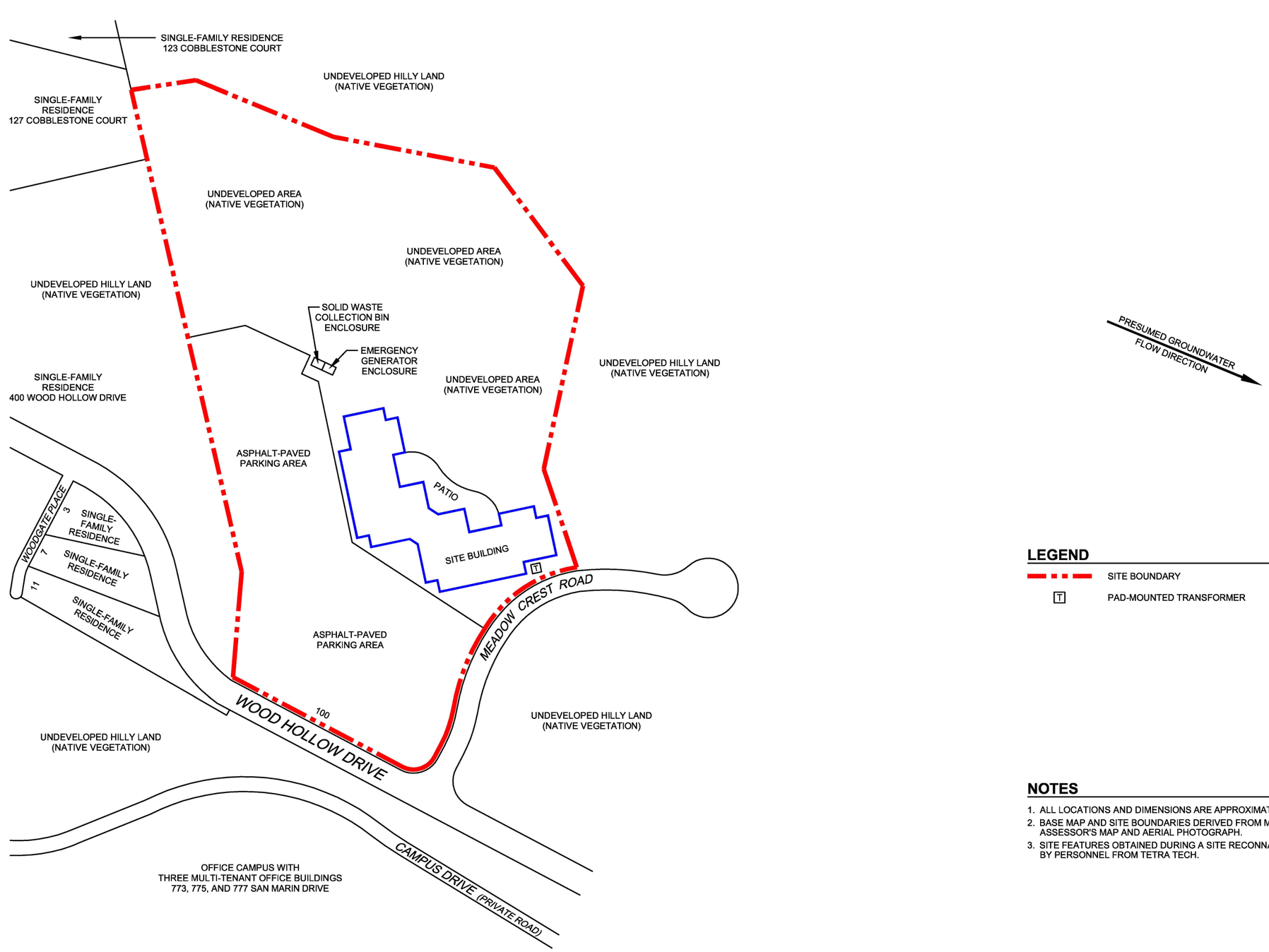
Figure 1 – Site Location Map
Figure 2 – Site Map

SOURCE:
2012 AERIAL PHOTOGRAPH
(ENVIRONMENTAL DATA RESOURCES, INC.)

0 500 1,000
SCALE (FEET)

N

OFFICE BUILDING 100 WOOD HOLLOW DRIVE NOVATO, CALIFORNIA 94945	TETRA TECH JUNE 5, 2015 TETRA TECH PROJ. NO. T34393	SITE LOCATION MAP FIGURE 1



LEGEND

SITE BOUNDARY

T PAD-MOUNTED TRANSFORMER

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BASE MAP AND SITE BOUNDARIES DERIVED FROM MARIN COUNTY ASSESSOR'S MAP AND AERIAL PHOTOGRAPH.
3. SITE FEATURES OBTAINED DURING A SITE RECONNAISSANCE BY PERSONNEL FROM TETRA TECH.

0 180 360

SCALE (FEET)

OFFICE BUILDING 100 WOOD HOLLOW DRIVE NOVATO, CALIFORNIA 94945	TETRA TECH JUNE 5, 2015 TETRA TECH PROJ. NO. T34393	SITE MAP FIGURE 2

APPENDIX A
PHOTOGRAPHIC DOCUMENTATION

Photograph No. 1: Northeast view of the southwestern side of the Site building.

Photograph No. 2: Southeast view of the western side of the Site building.

Photograph No. 3: Northeast view of the entrance to the Site building.

Photograph No. 4: Southwest view of the lobby area.

Photograph No. 5: Northwest view of the office space occupied by Marin Medical Practice Concept (Suite 160).

Photograph No. 6: Northeast view of the office space occupied by Marin Medical Practice Concept (Suite 160).

Photograph No. 7: Northeast view of a vacant office space on the second floor.

Photograph No. 8: Northwest view of the Biomarin Pharmaceuticals, Inc., tenant space on the third floor.

Photograph No. 9: View of the storage of hazardous materials in a flammable-rated cabinet in the Biomarin Pharmaceuticals, Inc., tenant space on the third floor.

Photograph No. 10: View of the storage of paint in the Biomarin Pharmaceuticals, Inc., tenant space on the third floor.

Photograph No. 11: View of elevator equipment and piping for one of two on-Site hydraulic elevators, located in the elevator room on the first floor. The unit contains an approximate 40-gallon capacity integral hydraulic fluid aboveground storage tank (AST).

Photograph No. 12: View of elevator equipment and piping for the second of two on-Site hydraulic elevators, located in the elevator room on the first floor. The unit contains an approximate 40-gallon capacity integral hydraulic fluid AST.

Photograph No. 13: Northeast view of the diesel-powered emergency generator located approximately 75 feet northwest of the Site building.

Photograph No. 14: Northeast view of the pad-mounted transformer located near the southeastern corner of the Site building.

Photograph No. 15: Southeast view of the Site parking area.

Photograph No. 16: East view of the Site building's heating, ventilation, and air conditioning (HVAC) system located on the eastern side of the roof.

Photograph No. 17: Southeast view of single-family residences (123 and 127 Cobblestone Court), located adjacent to and west of the Site.

Photograph No. 18: Northeast view of the undeveloped hilly land covered with native vegetation (trees and grasses), located adjacent to and north of the Site.

Photograph No. 19: North view of the undeveloped hilly land covered with native vegetation (trees and grasses), located adjacent to and east of the Site.

Photograph No. 20: Southwest view of the office campus developed with three multi-tenant office buildings (773, 775, and 777 San Marin Drive), located adjacent to and south of the Site beyond Wood Hollow Drive.

APPENDIX B
EDR REGULATORY DATABASE REPORT

100 Wood Hollow Drive
100 Wood Hollow Drive
Novato, CA 94945

Inquiry Number: 4303774.2s
May 22, 2015

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

100 WOOD HOLLOW DRIVE
NOVATO, CA 94945

COORDINATES

Latitude (North):	38.1257000 - 38˚ 7' 32.52''
Longitude (West):	122.5698000 - 122˚ 34' 11.28''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	537706.9
UTM Y (Meters):	4219643.5
Elevation:	60 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	38122-B5 PETALUMA RIVER, CA
Most Recent Revision:	1980
South Map:	38122-A5 NOVATO, CA
Most Recent Revision:	1980

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120522, 20120523, 20120520
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
100 WOOD HOLLOW DRIVE
NOVATO, CA 94945

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	FIREMAN'S FUND INSUR	777 SAN MARIN DR.	UST	Lower	1110, 0.210, South
A2	FIREMAN'S FUND INSUR	777 SAN MARIN DR	HIST UST	Lower	1110, 0.210, South
A3	FIREMAN'S FUND INSUR	777 SAN MARIN DR.	AST	Lower	1110, 0.210, South
A4	FIREMAN'S FUND INSUR	777 SAN MARIN DR	CA FID UST, SWEEPS UST	Lower	1110, 0.210, South
A5	FIREMAN'S FUND INSUR	777 SAN MARIN DR	HIST CORTESE, LUST	Lower	1110, 0.210, South
6	GOLDEN GATE TRANSIT	801 GOLDEN GATE PLAC	RCRA-SQG, CA FID UST, UST, HIST UST, SWEEPS UST,...	Lower	3893, 0.737, SSE
7	VIA GAS STATION	7474 REDWOOD BOULEVA	Notify 65	Lower	4742, 0.898, South

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

CERCLIS ..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ..... CERCLIS No Further Remedial Action Planned

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-SQG ..... RCRA - Small Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

LUCIS ..... Land Use Control Information System

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ..... State Response Sites

State- and tribal - equivalent CERCLIS

ENVIROSTOR ..... EnviroStor Database

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ..... Solid Waste Information System

State and tribal leaking storage tank lists

SLIC ..... Statewide SLIC Cases
INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST ..... Underground Storage Tanks on Indian Land
FEMA UST ..... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP ..... Voluntary Cleanup Priority Listing
VCP ..... Voluntary Cleanup Program Properties

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
ODI ..... Open Dump Inventory
SWRCY ..... Recycler Database
HAULERS ..... Registered Waste Tire Haulers Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
WMUDS/SWAT ..... Waste Management Unit Database

Local Lists of Hazardous waste / Contaminated Sites

US CDL ..... Clandestine Drug Labs
HIST Cal-Sites ..... Historical Calsites Database
SCH ..... School Property Evaluation Program
Toxic Pits ..... Toxic Pits Cleanup Act Sites

EXECUTIVE SUMMARY

CDL	Clandestine Drug Labs
US HIST CDL	National Clandestine Laboratory Register

Local Land Records

LIENS 2	CERCLA Lien Information
LIENS	Environmental Liens Listing
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

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
DOT OPS	Incident and Accident Data
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
US MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
CA BOND EXP. PLAN	Bond Expenditure Plan
NPDES	NPDES Permits Listing
UIC	UIC Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
ENF	Enforcement Action Listing
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
WDS	Waste Discharge System
Financial Assurance	Financial Assurance Information Listing
PROC	Certified Processors Database

EXECUTIVE SUMMARY

HWT Registered Hazardous Waste Transporter Database
HWP EnviroStor Permitted Facilities Listing
MWMP Medical Waste Management Program Listing
LEAD SMELTERS Lead Smelter Sites
US AIRS Aerometric Information Retrieval System Facility Subsystem
EPA WATCH LIST EPA WATCH LIST
US FIN ASSUR Financial Assurance Information
COAL ASH EPA Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER PCB Transformer Registration Database
COAL ASH DOE Steam-Electric Plant Operation Data
2020 COR ACTION 2020 Corrective Action Program List
PRP Potentially Responsible Parties

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST Recovered Government Archive Leaking Underground Storage Tank
RGA LF Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 03/13/2015 has revealed that there is 1 LUST

site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FIREMAN'S FUND INSUR	***777 SAN MARIN DR***	***S 1/8 - 1/4 (0.210 mi.)***	***A5***	***12***
Status: Completed - Case Closed Facility Id: 21-0051 Facility Status: Case Closed Global Id: T0604100050 date9: 1/22/1998				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 03/13/2015 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FIREMAN'S FUND INSUR	777 SAN MARIN DR.	S 1/8 - 1/4 (0.210 mi.)	A1	8

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FIREMAN'S FUND INSUR	777 SAN MARIN DR.	S 1/8 - 1/4 (0.210 mi.)	A3	9

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

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.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FIREMAN'S FUND INSUR	***777 SAN MARIN DR***	***S 1/8 - 1/4 (0.210 mi.)***	***A4***	***9***
Status: A Facility Id: 21000060				

EXECUTIVE SUMMARY

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FIREMAN'S FUND INSUR Facility Id: 00000053439	777 SAN MARIN DR	S 1/8 - 1/4 (0.210 mi.)	A2	8

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.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FIREMAN'S FUND INSUR Status: A Tank Status: A Comp Number: 53439	***777 SAN MARIN DR***	***S 1/8 - 1/4 (0.210 mi.)***	***A4***	***9***

Other Ascertainable Records

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.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FIREMAN'S FUND INSUR Reg Id: 21-0051	***777 SAN MARIN DR***	***S 1/8 - 1/4 (0.210 mi.)***	***A5***	***12***

Notify 65: 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.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 2 Notify 65 sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GOLDEN GATE TRANSIT	***801 GOLDEN GATE PLAC***	***SSE 1/2 - 1 (0.737 mi.)***	***6***	***14***
VIA GAS STATION	7474 REDWOOD BOULEVA	S 1/2 - 1 (0.898 mi.)	7	20

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 4303774.2S

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

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: 100 Wood Hollow Drive	CLIENT: Tetra Tech Inc.
ADDRESS: 100 Wood Hollow Drive Novato CA 94945	CONTACT: Tanya Maclean
LAT/LONG: 38.1257 / 122.5698	INQUIRY #: 4303774.2s
	DATE: May 22, 2015 1:09 pm

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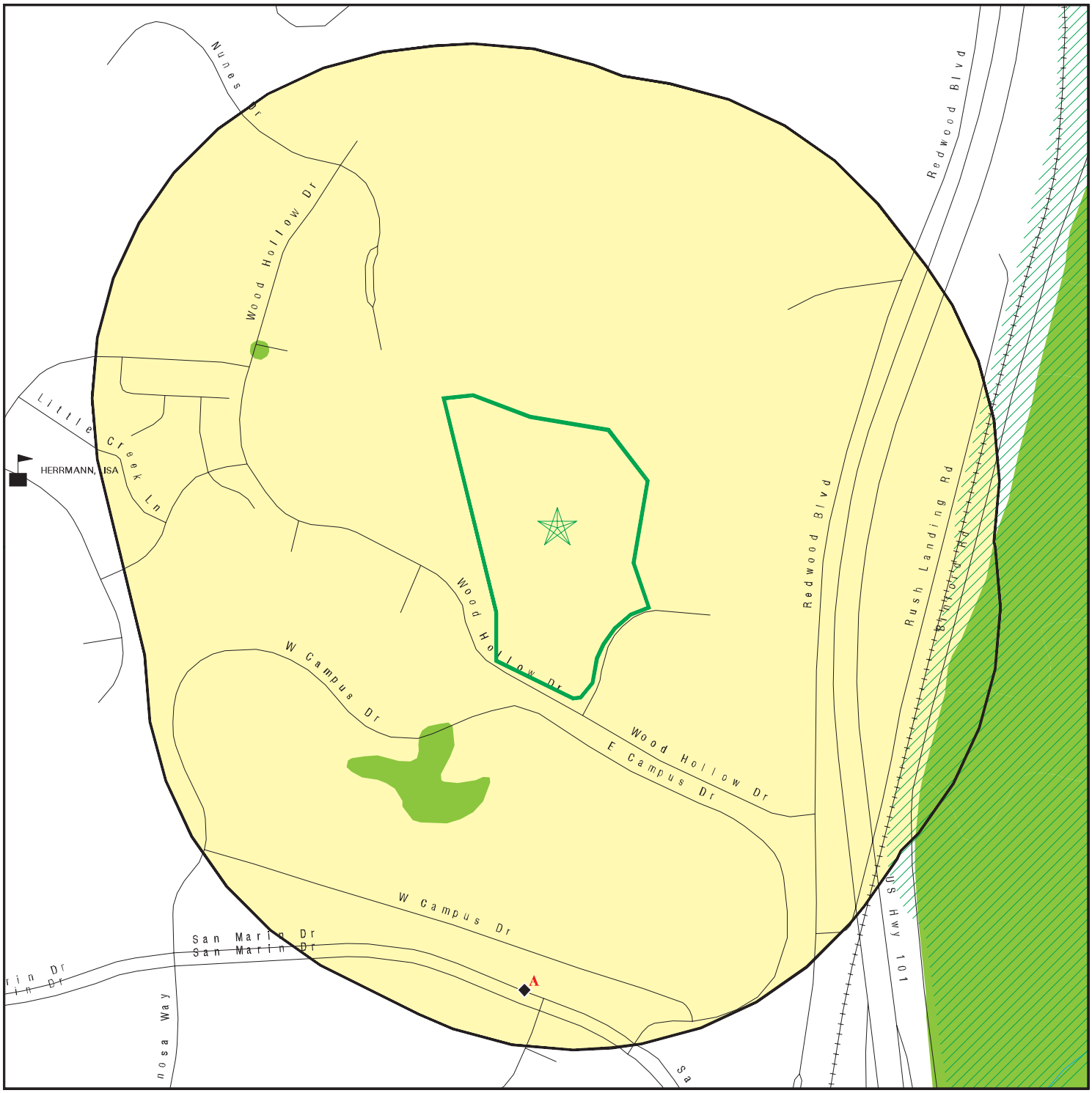
DETAIL MAP - 4303774.2S



0 1/16 1/8 1/4 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
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- 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: 100 Wood Hollow Drive	CLIENT: Tetra Tech Inc.
ADDRESS: 100 Wood Hollow Drive Novato CA 94945	CONTACT: Tanya Maclean
LAT/LONG: 38.1257 / 122.5698	INQUIRY #: 4303774.2s
	DATE: May 22, 2015 1:12 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	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
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		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	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	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	1	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
SLIC	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA 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
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	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
Toxic Pits	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA FID UST	0.250		0	1	NR	NR	NR	1
HIST UST	0.250		0	1	NR	NR	NR	1
SWEEPS UST	0.250		0	1	NR	NR	NR	1
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	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
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
HIST CORTESE	0.500		0	1	0	NR	NR	1
CUPA Listings	0.250		0	0	NR	NR	NR	0
Notify 65	1.000		0	0	0	2	NR	2
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	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
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
PRP	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 US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LUST	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	7	0	2	0	9

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 South 1/8-1/4 0.210 mi. 1110 ft. | **FIREMAN'S FUND INSURANCE COMPANY** | **UST** | **U003914553**
777 SAN MARIN DR. | **N/A**
NOVATO, CA 94998

Site 1 of 5 in cluster A

Relative: Lower

Actual: 38 ft.

MARIN CO. UST:

Facility Id:	Not reported
Tank Number:	Not reported
Tank Status:	Not reported
Tank Contents:	Not reported
Tank Use:	Not reported
Certficate Number:	Not reported
Last Inspected:	Not reported
Program:	UST
Location:	Not reported
Pulled Date:	7/1/1997
Reason:	Not reported

A2 South 1/8-1/4 0.210 mi. 1110 ft. | **FIREMAN'S FUND INSURANCE COS.** | **HIST UST** | **U001600768**
777 SAN MARIN DR | **N/A**
NOVATO, CA 94998

Site 2 of 5 in cluster A

Relative: Lower

Actual: 38 ft.

HIST UST:

Region:	STATE
Facility ID:	00000053439
Facility Type:	Other
Other Type:	OFFICE BLDG.
Contact Name:	VAN HANIS (CHIEF ENGINEER)
Telephone:	4158993377
Owner Name:	FIREMAN'S FUND INSURANCE COS.
Owner Address:	777 SAN MARIN DRIVE
Owner City,St,Zip:	NOVATO, CA 94998
Total Tanks:	0006
Tank Num:	001
Container Num:	1
Year Installed:	1982
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1982
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	1982
Tank Capacity:	00010000

FIREMAN'S FUND INSURANCE COS. (Continued) **U001600768**

Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: 1982
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 005
Container Num: 5
Year Installed: 1982
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 006
Container Num: 6
Year Installed: 1982
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

A3
South
1/8-1/4
0.210 mi.
1110 ft.

FIREMAN'S FUND INSURANCE CO. **AST** **U003740459**
777 SAN MARIN DR. **N/A**
NOVATO, CA 94998

Site 3 of 5 in cluster A

Relative:
Lower

Actual:
38 ft.

AST:
Certified Unified Program Agencies: Marin
Owner: FIREMAN'S FUND INSURANCE CO.
Total Gallons: 2,000

A4
South
1/8-1/4
0.210 mi.
1110 ft.

FIREMAN'S FUND INSURANCE COS. **CA FID UST** **S101629633**
777 SAN MARIN DR **SWEEPS UST** **N/A**
NOVATO, CA 94998

Site 4 of 5 in cluster A

Relative:
Lower

Actual:
38 ft.

CA FID UST:
Facility ID: 21000060
Regulated By: UTNKA
Regulated ID: 00053439
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4158993377

FIREMAN'S FUND INSURANCE COS. (Continued) **S101629633**

Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: NOVATO 94998
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SWEEPS UST:
Status: Active
Comp Number: 53439
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 12-31-88
Owner Tank Id: 1
SWRCB Tank Id: 21-000-053439-000001
Tank Status: A
Capacity: 12000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 6

Status: Active
Comp Number: 53439
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 12-31-88
Owner Tank Id: 2
SWRCB Tank Id: 21-000-053439-000002
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 53439
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 12-31-88
Owner Tank Id: 3
SWRCB Tank Id: 21-000-053439-000003
Tank Status: A

FIREMAN'S FUND INSURANCE COS. (Continued) **S101629633**

Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 53439
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 12-31-88
Owner Tank Id: 4
SWRCB Tank Id: 21-000-053439-000004
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 53439
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 12-31-88
Owner Tank Id: 5
SWRCB Tank Id: 21-000-053439-000005
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 53439
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 12-31-88
Owner Tank Id: 6
SWRCB Tank Id: 21-000-053439-000006
Tank Status: A
Capacity: 1000
Active Date: 07-01-85
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

A5 South 1/8-1/4 0.210 mi. 1110 ft. | **FIREMAN'S FUND INSURANCE**
777 SAN MARIN DR
NOVATO, CA 94947

HIST CORTESE LUST | **1001267336 N/A**

Site 5 of 5 in cluster A

Relative: Lower

Actual: 38 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	21
Reg By:	LTNKA
Reg Id:	21-0051

LUST:

Region:	STATE
Global Id:	T0604100050
Latitude:	38.12421
Longitude:	-122.57052
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/22/1998
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	JMJ
Local Agency:	MARIN COUNTY
RB Case Number:	21-0051
LOC Case Number:	21-0051
File Location:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0604100050
Contact Type:	Local Agency Caseworker
Contact Name:	UNK
Organization Name:	MARIN COUNTY
Address:	Not reported
City:	r2 UNKNOWN
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0604100050
Contact Type:	Regional Board Caseworker
Contact Name:	JOHN JANG
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	jjang@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0604100050
Status:	Completed - Case Closed
Status Date:	01/22/1998

Global Id:	T0604100050
Status:	Open - Case Begin Date
Status Date:	04/03/1990

FIREMAN'S FUND INSURANCE (Continued) **1001267336**

Global Id: T0604100050
Status: Open - Site Assessment
Status Date: 04/03/1990

Global Id: T0604100050
Status: Open - Site Assessment
Status Date: 10/20/1997

Global Id: T0604100050
Status: Open - Site Assessment
Status Date: 11/24/1997

Regulatory Activities:
Global Id: T0604100050
Action Type: Other
Date: 07/22/1997
Action: Leak Discovery

Global Id: T0604100050
Action Type: ENFORCEMENT
Date: 06/13/2005
Action: * Verbal Communication

Global Id: T0604100050
Action Type: Other
Date: 07/22/1997
Action: Leak Stopped

Global Id: T0604100050
Action Type: Other
Date: 08/12/1997
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 21-0051
Facility Status: Case Closed
Case Number: 21-0051
How Discovered: Tank Closure
Leak Cause: Overfill
Leak Source: Tank
Date Leak Confirmed: 10/20/1997
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 11/24/1997
Preliminary Site Assesment Began: 4/3/1990
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

6 SSE 1/2-1 0.737 mi. 3893 ft.	**GOLDEN GATE TRANSIT 801 GOLDEN GATE PLACE NOVATO, CA 94947**	**RCRA-SQG CA FID UST UST HIST UST SWEEPS UST Notify 65 HAZNET**	**1000187000 CAD980736508**
Relative: Lower			
Actual: 21 ft.			

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	GOLDEN GATE TRANSIT
Facility address:	801 GOLDEN GATE PLACE NOVATO, CA 94947
EPA ID:	CAD980736508
Mailing address:	PO BOX 3474 SAN RAFAEL, CA 94912
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	GOLDEN GATE BRIDGE DISTRICT
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No

GOLDEN GATE TRANSIT (Continued) **1000187000**

Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/03/1982
Site name: GOLDEN GATE TRANSIT
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 02/20/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

CA FID UST:
Facility ID: 21000065
Regulated By: UTNKA
Regulated ID: 00030032
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4154573110
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: NOVATO 94947
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

UST:
Facility ID: 600118
Permitting Agency: MARIN COUNTY
Latitude: 38.1157
Longitude: -122.56886

MARIN CO. UST:
Facility Id: 60-0118

Tank Number: 000001
Tank Status: Change of Information
Tank Contents: Petroleum blend fuel

GOLDEN GATE TRANSIT (Continued) **1000187000**

Tank Use:	Motor vehicle fueling
Certficate Number:	15791
Last Inspected:	5/22/2008
Program:	Not reported
Location:	Not reported
Pulled Date:	Not reported
Reason:	Not reported

Tank Number:	000002
Tank Status:	Change of Information
Tank Contents:	Petroleum blend fuel
Tank Use:	Motor vehicle fueling
Certficate Number:	15791
Last Inspected:	5/22/2008
Program:	Not reported
Location:	Not reported
Pulled Date:	Not reported
Reason:	Not reported

HIST UST:

Region:	STATE
Facility ID:	00000030032
Facility Type:	Other
Other Type:	BUS MAINTENANCE FACI
Contact Name:	ANGELO LEONE
Telephone:	4154573110
Owner Name:	GOLDEN GATE BRIDGE, HIGHWAY AN
Owner Address:	GOLDEN GAT BRIDGE - TOLL PLAZA
Owner City,St,Zip:	SAN FRANCISCO, CA 94129
Total Tanks:	0006

Tank Num:	001
Container Num:	DFT-1-D3
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	.25
Leak Detection:	Stock Inventor

Tank Num:	002
Container Num:	DFT-2-D3
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	.25
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	DFT-3-D3
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported

GOLDEN GATE TRANSIT (Continued) **1000187000**

Leak Detection: Stock Inventor

Tank Num: 004
Container Num: DFT-4-D3
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 005
Container Num: DFT-1-D2
Year Installed: 1975
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: .25
Leak Detection: Stock Inventor

Tank Num: 006
Container Num: DFT-2-D2
Year Installed: 1975
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: .25
Leak Detection: Stock Inventor

SWEEPS UST:
Status: Active
Comp Number: 30032
Number: 9
Board Of Equalization: 44-013866
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 12-31-88
Owner Tank Id: DFT-1-D3
SWRCB Tank Id: 21-000-030032-000001
Tank Status: A
Capacity: 12000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 6

Status: Active
Comp Number: 30032
Number: 9
Board Of Equalization: 44-013866
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 12-31-88
Owner Tank Id: DFT-2-D3
SWRCB Tank Id: 21-000-030032-000002
Tank Status: A

GOLDEN GATE TRANSIT (Continued) **1000187000**

Capacity:	12000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	30032
Number:	9
Board Of Equalization:	44-013866
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	12-31-88
Owner Tank Id:	DFT-3-D3
SWRCB Tank Id:	21-000-030032-000003
Tank Status:	A
Capacity:	10000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	30032
Number:	9
Board Of Equalization:	44-013866
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	12-31-88
Owner Tank Id:	DFT-4-D3
SWRCB Tank Id:	21-000-030032-000004
Tank Status:	A
Capacity:	10000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	30032
Number:	9
Board Of Equalization:	44-013866
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	12-31-88
Owner Tank Id:	DFT-1-D2
SWRCB Tank Id:	21-000-030032-000005
Tank Status:	A
Capacity:	12000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

GOLDEN GATE TRANSIT (Continued) **1000187000**

Status: Active
Comp Number: 30032
Number: 9
Board Of Equalization: 44-013866
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 12-31-88
Owner Tank Id: DFT-2-D2
SWRCB Tank Id: 21-000-030032-000006
Tank Status: A
Capacity: 12000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93001

HAZNET:
envid: 1000187000
Year: 2012
GEPAID: CAD980736508
Contact: DAVID DENNING/EH&S SPECIALIST
Telephone: 4152574519
Mailing Name: Not reported
Mailing Address: 1011 ANDERSEN DR
Mailing City,St,Zip: SAN RAFAEL, CA 949015363
Gen County: Marin
TSD EPA ID: CAD980887418
TSD County: Alameda
Waste Category: Not reported
Disposal Method: Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons: 2.085
Facility County: Marin

envid: 1000187000
Year: 2011
GEPAID: CAD980736508
Contact: DAVID DENNING/EH&S SPECIALIST
Telephone: 4152574519
Mailing Name: Not reported
Mailing Address: 1011 ANDERSEN DR
Mailing City,St,Zip: SAN RAFAEL, CA 949015363
Gen County: Not reported
TSD EPA ID: CAD980887418
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without

GOLDEN GATE TRANSIT (Continued) **1000187000**

Treatment)
Tons: 1.68468
Facility County: Marin

envid: 1000187000
Year: 2002
GEPAID: CAD980736508
Contact: ROBB BURY/EH&S SPECIALIST
Telephone: 4152574519
Mailing Name: Not reported
Mailing Address: 1011 ANDERSEN DR
Mailing City,St,Zip: SAN RAFAEL, CA 949015363
Gen County: Not reported
TSD EPA ID: CAD980887418
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Tons: 2.58
Facility County: Marin

7
South
1/2-1
0.898 mi.
4742 ft.

VIA GAS STATION
7474 REDWOOD BOULEVARD
NOVATO, CA 93001

Notify 65 **U000058440**
N/A

Relative:
Lower

Actual:
24 ft.

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93001

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
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: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
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: 12/16/2014	Source: EPA
Date Data Arrived at EDR: 01/08/2015	Telephone: N/A
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 04/08/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 07/20/2015
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/01/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/08/2015
	Data Release Frequency: Quarterly

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: 07/21/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/07/2014	Telephone: 703-603-8704
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 04/08/2015
Number of Days to Update: 13	Next Scheduled EDR Contact: 07/20/2015
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/01/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/08/2015
	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: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
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: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
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: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
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: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

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: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

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: 12/03/2014
Date Data Arrived at EDR: 12/12/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/31/2015
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: 09/29/2014
Date Data Arrived at EDR: 09/30/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 37

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

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: 05/04/2015
Date Data Arrived at EDR: 05/05/2015
Date Made Active in Reports: 05/14/2015
Number of Days to Update: 9

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/05/2015
Next Scheduled EDR Contact: 08/17/2015
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: 05/04/2015
Date Data Arrived at EDR: 05/05/2015
Date Made Active in Reports: 05/14/2015
Number of Days to Update: 9

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/05/2015
Next Scheduled EDR Contact: 08/17/2015
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: 02/16/2015
Date Data Arrived at EDR: 02/17/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 14

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/20/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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: Varies

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 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

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: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

SLIC: Statewide SLIC Cases

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: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
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: Quarterly

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: Semi-Annually

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: Varies

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: Semi-Annually

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: Semi-Annually

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: Semi-Annually

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: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

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: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

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: 01/28/2015
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 42

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
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: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/03/2015
Next Scheduled EDR Contact: 08/10/2015
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: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/10/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 31

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 01/30/2015
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 32

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/26/2015
Number of Days to Update: 8

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 07/13/2015
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

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: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

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: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Semi-Annually

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: 01/30/2015
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 36

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
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: 01/23/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

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: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2015
Next Scheduled EDR Contact: 08/10/2015
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: 02/03/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

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: 01/29/2015
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 42

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

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: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/13/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 05/04/2015
Date Data Arrived at EDR: 05/05/2015
Date Made Active in Reports: 05/14/2015
Number of Days to Update: 9

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/05/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

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: 12/22/2014
Date Data Arrived at EDR: 12/22/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 38

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/24/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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: 04/23/2015
Next Scheduled EDR Contact: 08/10/2015
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

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/26/2015
Number of Days to Update: 8

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 04/04/2015
Date Data Arrived at EDR: 04/07/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 6

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/31/2015
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: 05/01/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

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: 05/06/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

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: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/03/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Quarterly

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: 05/04/2015
Date Data Arrived at EDR: 05/05/2015
Date Made Active in Reports: 05/14/2015
Number of Days to Update: 9

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/05/2015
Next Scheduled EDR Contact: 08/17/2015
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

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 8

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/13/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

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: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/03/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

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

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
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

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

Local Land Records

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: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/11/2015
Date Data Arrived at EDR: 03/13/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 11

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

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: 03/09/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 8

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/10/2015
Next Scheduled EDR Contact: 06/22/2015
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: 12/29/2014
Date Data Arrived at EDR: 12/30/2014
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 69

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

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: 04/14/2015
Date Data Arrived at EDR: 04/29/2015
Date Made Active in Reports: 05/21/2015
Number of Days to Update: 22

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
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: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/05/2015
Next Scheduled EDR Contact: 08/17/2015
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: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Semi-Annually

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: 06/06/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 8

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

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: 01/23/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 24

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/10/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Annually

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: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/27/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

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: 12/30/2014
Date Data Arrived at EDR: 12/31/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/06/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Semi-Annually

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: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 01/29/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

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: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/27/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Every 4 Years

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: 05/20/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Quarterly

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: 05/20/2015
Next Scheduled EDR Contact: 09/07/2015
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

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: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/10/2015
Next Scheduled EDR Contact: 08/10/2015
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: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/09/2015
Next Scheduled EDR Contact: 07/27/2015
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: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/17/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Annually

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: 12/29/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 21

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

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: 02/27/2015
Date Data Arrived at EDR: 02/27/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/09/2015
Next Scheduled EDR Contact: 07/20/2015
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: 01/18/2015
Date Data Arrived at EDR: 02/27/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 26

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

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

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: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/24/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Biennially

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

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 03/12/2015
Date Data Arrived at EDR: 03/13/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 11

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/20/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 11/19/2014
Date Data Arrived at EDR: 12/15/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 45

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/20/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Varies

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: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 04/10/2015
Number of Days to Update: 10

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
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

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: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: No Update Planned

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: 02/18/2015
Date Data Arrived at EDR: 02/20/2015
Date Made Active in Reports: 03/12/2015
Number of Days to Update: 20

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Annually

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: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/01/2015
Date Made Active in Reports: 05/13/2015
Number of Days to Update: 12

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
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: 12/31/2013
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/19/2014
Number of Days to Update: 35

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/17/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 03/25/2014
Date Made Active in Reports: 04/28/2014
Number of Days to Update: 34

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/27/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Varies

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: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Semi-Annually

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: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 08/31/2015
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: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/22/2015
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: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/01/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/01/2015
Date Made Active in Reports: 05/13/2015
Number of Days to Update: 12

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
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: 02/17/2015
Date Data Arrived at EDR: 02/20/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 11

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/31/2015
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: 03/09/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/14/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 7

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/24/2015
Next Scheduled EDR Contact: 06/08/2015
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: 04/13/2015
Date Data Arrived at EDR: 04/15/2015
Date Made Active in Reports: 04/23/2015
Number of Days to Update: 8

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/15/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/15/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Varies

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: 01/16/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/10/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

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: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: 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: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: N/A

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: 05/20/2015
Next Scheduled EDR Contact: 09/07/2015
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: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/14/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/14/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

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

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/10/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Varies

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
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: 05/07/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

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 US Hist Auto Stat: EDR Exclusive Historic Gas 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 US Hist Cleaners: EDR Exclusive Historic Dry 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 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

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

COUNTY RECORDS

ALAMEDA COUNTY:

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: 01/21/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 29

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/21/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 29

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/24/2015
Date Made Active in Reports: 03/31/2015
Number of Days to Update: 7

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 11/20/2014
Date Data Arrived at EDR: 11/24/2014
Date Made Active in Reports: 01/07/2015
Number of Days to Update: 44

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 04/17/2015
Date Data Arrived at EDR: 04/21/2015
Date Made Active in Reports: 05/07/2015
Number of Days to Update: 16

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/11/2014
Date Data Arrived at EDR: 06/13/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 24

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 7

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 6

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/24/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 6

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

FRESNO COUNTY:

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: 03/31/2015
Date Data Arrived at EDR: 04/15/2015
Date Made Active in Reports: 04/23/2015
Number of Days to Update: 8

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/06/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 03/11/2015
Date Data Arrived at EDR: 03/13/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 11

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 04/27/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 05/13/2015
Number of Days to Update: 15

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/22/2014
Date Data Arrived at EDR: 11/12/2014
Date Made Active in Reports: 12/19/2014
Number of Days to Update: 37

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

KINGS COUNTY:

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: 03/26/2015
Date Data Arrived at EDR: 04/16/2015
Date Made Active in Reports: 04/23/2015
Number of Days to Update: 7

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 05/05/2015
Date Data Arrived at EDR: 05/07/2015
Date Made Active in Reports: 05/20/2015
Number of Days to Update: 13

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/16/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

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: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/24/2014
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 33

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/13/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/20/2015
Date Data Arrived at EDR: 04/20/2015
Date Made Active in Reports: 05/07/2015
Number of Days to Update: 17

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/20/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/15/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/15/2015
Date Data Arrived at EDR: 01/29/2015
Date Made Active in Reports: 03/10/2015
Number of Days to Update: 40

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 03/06/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 01/29/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 13

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/14/2015
Date Data Arrived at EDR: 04/23/2015
Date Made Active in Reports: 05/11/2015
Number of Days to Update: 18

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/13/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Semi-Annually

MADERA COUNTY:

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: 03/20/2015
Date Data Arrived at EDR: 03/24/2015
Date Made Active in Reports: 03/31/2015
Number of Days to Update: 7

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 10/08/2014
Date Data Arrived at EDR: 10/22/2014
Date Made Active in Reports: 12/15/2014
Number of Days to Update: 54

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 05/05/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 7

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 02/27/2015
Date Data Arrived at EDR: 03/06/2015
Date Made Active in Reports: 03/10/2015
Number of Days to Update: 4

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 03/19/2015
Date Data Arrived at EDR: 03/20/2015
Date Made Active in Reports: 03/31/2015
Number of Days to Update: 11

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/12/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 18

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 18

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 18

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 13

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/12/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/12/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/28/2015
Date Data Arrived at EDR: 04/30/2015
Date Made Active in Reports: 05/13/2015
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 04/28/2015
Date Data Arrived at EDR: 04/30/2015
Date Made Active in Reports: 05/13/2015
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/02/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 04/16/2015
Number of Days to Update: 8

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

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: 02/02/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 04/16/2015
Number of Days to Update: 8

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

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: 03/02/2015
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/10/2015
Number of Days to Update: 7

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/12/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

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: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/10/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2014
Date Data Arrived at EDR: 11/21/2014
Date Made Active in Reports: 12/29/2014
Number of Days to Update: 38

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

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: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

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: 05/06/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/24/2015
Date Data Arrived at EDR: 03/25/2015
Date Made Active in Reports: 03/31/2015
Number of Days to Update: 6

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 7

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 04/13/2015
Date Data Arrived at EDR: 04/15/2015
Date Made Active in Reports: 04/23/2015
Number of Days to Update: 8

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/16/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/17/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 7

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

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: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 6

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

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

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: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 8

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/07/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 11/24/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 12/31/2014
Number of Days to Update: 36

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 03/11/2015
Date Data Arrived at EDR: 03/13/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 11

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 5

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/20/2015
Date Made Active in Reports: 03/31/2015
Number of Days to Update: 11

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 03/31/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/10/2015
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/01/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 8

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 05/05/2015
Date Data Arrived at EDR: 05/07/2015
Date Made Active in Reports: 05/13/2015
Number of Days to Update: 6

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

VENTURA COUNTY:

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: 01/27/2015
Date Data Arrived at EDR: 02/19/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 12

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

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: 04/02/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Annually

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: 05/18/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

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: 04/27/2015
Date Data Arrived at EDR: 04/29/2015
Date Made Active in Reports: 05/13/2015
Number of Days to Update: 14

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/26/2015
Number of Days to Update: 8

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 04/01/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 12

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/17/2015
Date Data Arrived at EDR: 02/19/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 12

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/17/2015
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: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
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: 05/01/2015
Date Data Arrived at EDR: 05/06/2015
Date Made Active in Reports: 05/20/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/16/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014
Number of Days to Update: 29

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

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, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

100 WOOD HOLLOW DRIVE
100 WOOD HOLLOW DRIVE
NOVATO, CA 94945

TARGET PROPERTY COORDINATES

Latitude (North):	38.1257 - 38˚ 7' 32.52''
Longitude (West):	122.5698 - 122˚ 34' 11.28''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	537706.9
UTM Y (Meters):	4219643.5
Elevation:	60 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38122-B5 PETALUMA RIVER, CA
Most Recent Revision:	1980
South Map:	38122-A5 NOVATO, CA
Most Recent Revision:	1980

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 principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

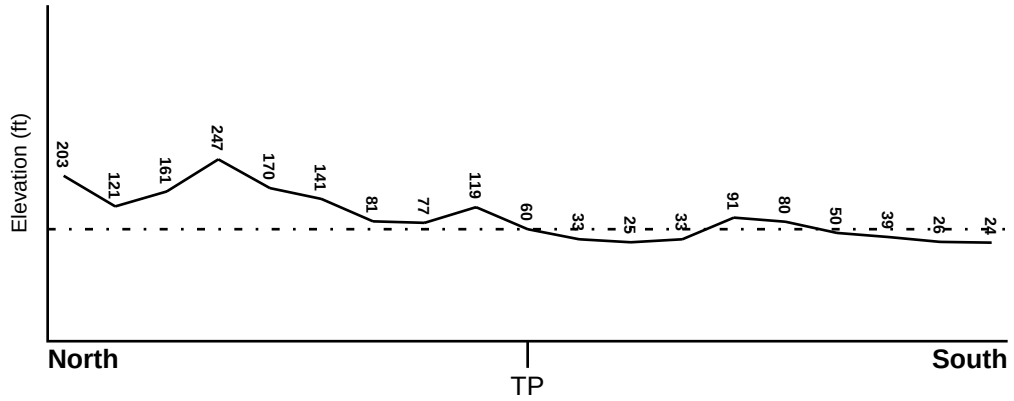
TOPOGRAPHIC INFORMATION

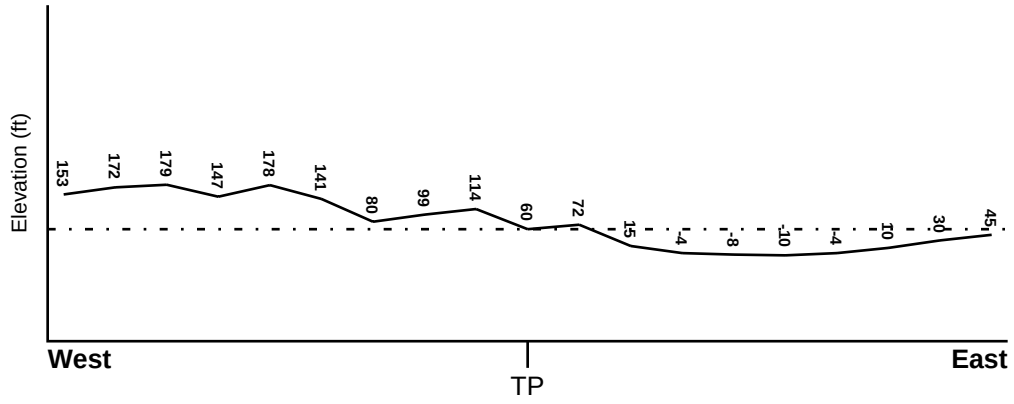
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 60 ft.

0 1/2 1 Miles

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

Target Property County	FEMA Flood Electronic Data
MARIN, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06041C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PETALUMA RIVER	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
1	1/2 - 1 Mile South	E, SE, Varie
A2	1/2 - 1 Mile South	NE
A3	1/2 - 1 Mile South	NE
5	1/2 - 1 Mile South	NNE

For additional site information, refer to Physical Setting Source Map Findings.

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

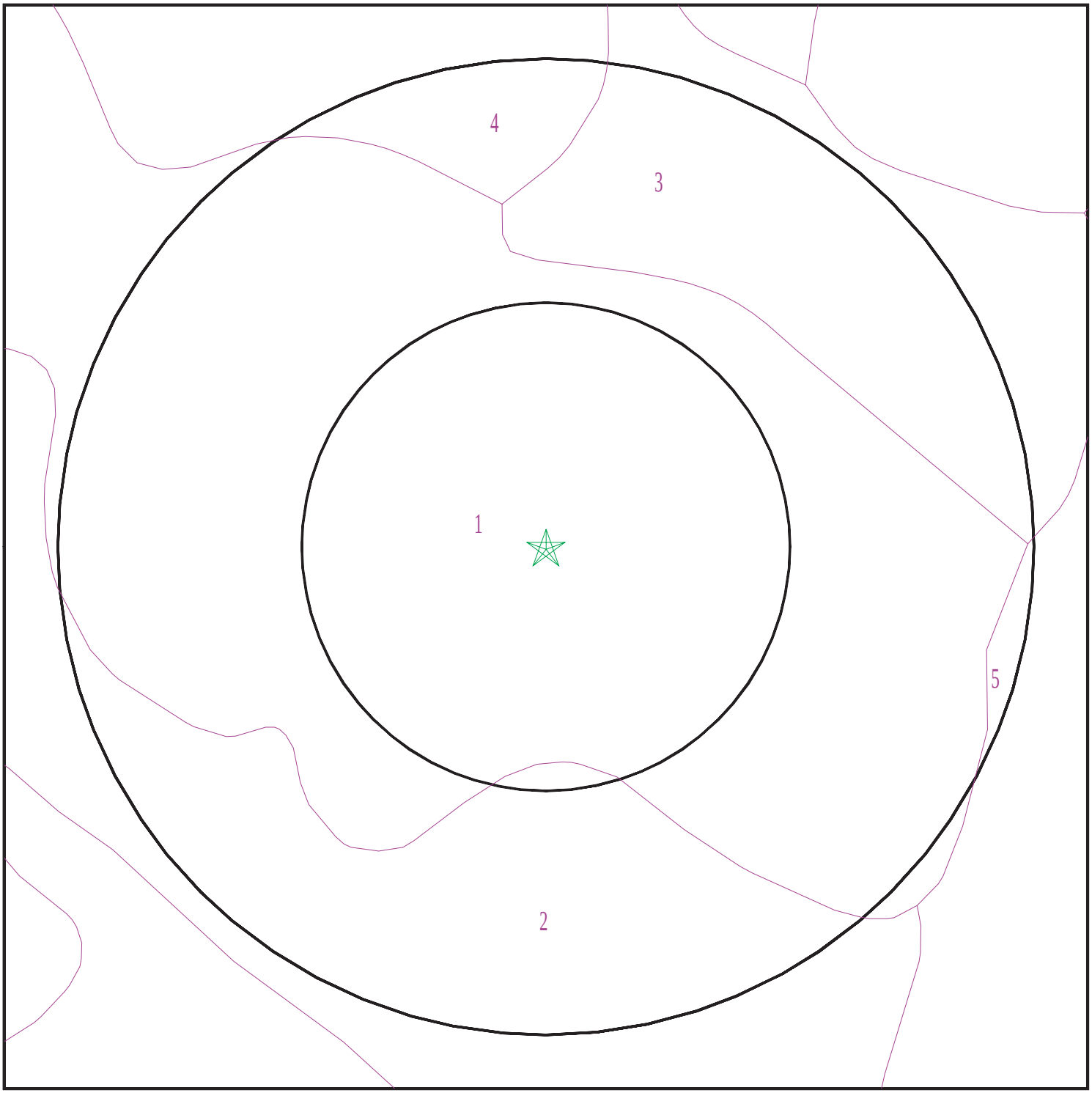
Era:	Mesozoic
System:	Cretaceous
Series:	Lower Cretaceous
Code:	lK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified 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 - 4303774.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME: 100 Wood Hollow Drive ADDRESS: 100 Wood Hollow Drive Novato CA 94945 LAT/LONG: 38.1257 / 122.5698	CLIENT: Tetra Tech Inc. CONTACT: Tanya Maclean INQUIRY #: 4303774.2s DATE: May 22, 2015 1:13 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: LOS OSOS

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	18 inches	38 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.3 Min: 5.6
3	38 inches	42 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 2

Soil Component Name: CLEAR LAKE

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	27 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.1
2	27 inches	59 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4

Soil Map ID: 3

Soil Component Name: BLUCHER

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.6
2	7 inches	22 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 6.1
3	22 inches	59 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4

Soil Map ID: 4

Soil Component Name: MONTARA

Soil Surface Texture: clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 33 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	12 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	12 inches	16 inches	unweathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 5

Soil Component Name: REYES

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.4 Min: 0.42	Max: 6.5 Min: 3.6
2	14 inches	62 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.4 Min: 0.42	Max: 6 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

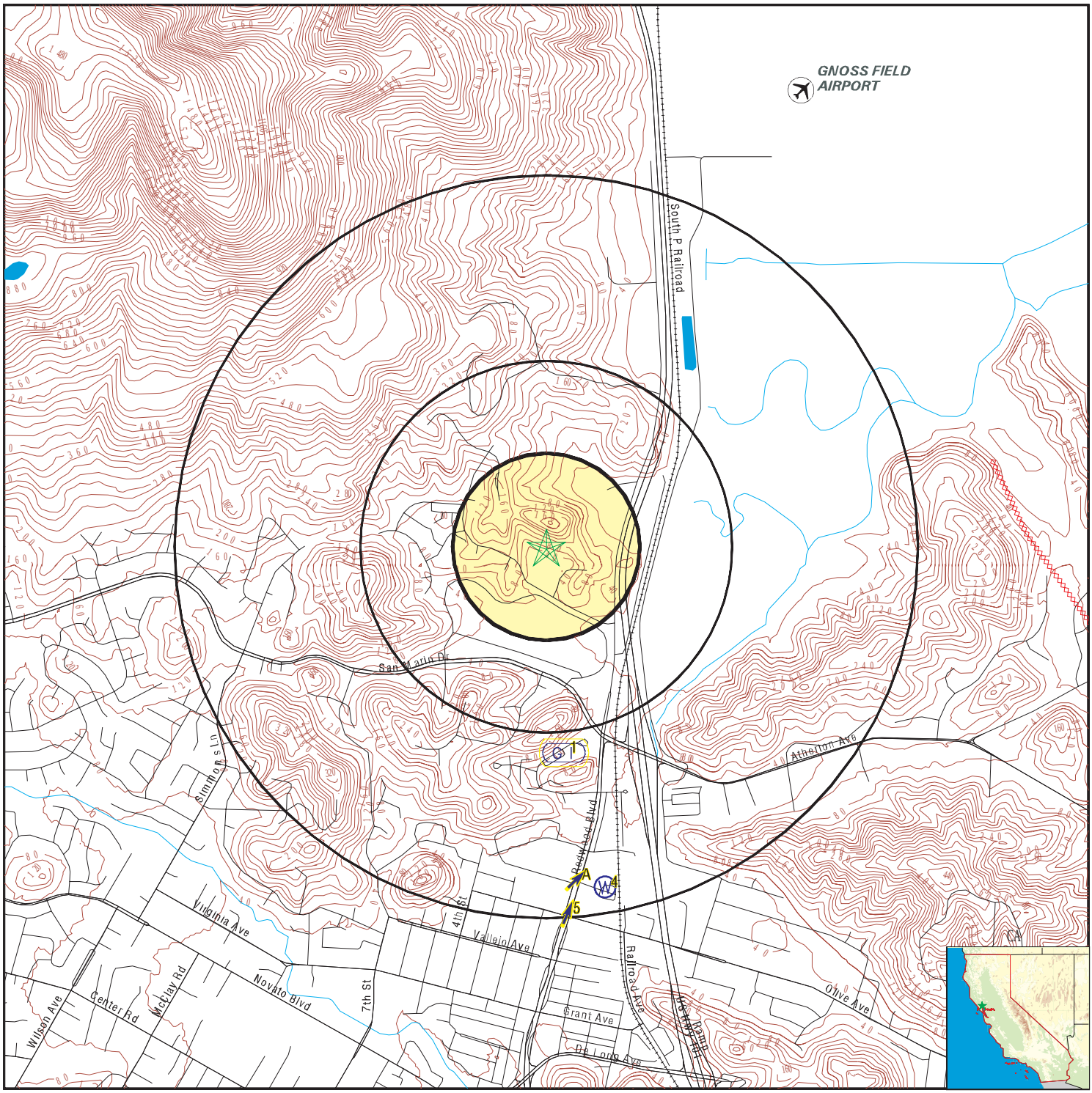
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
4	3325	1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 4303774.2s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- 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: 100 Wood Hollow Drive	CLIENT: Tetra Tech Inc.
ADDRESS: 100 Wood Hollow Drive Novato CA 94945	CONTACT: Tanya Maclean
LAT/LONG: 38.1257 / 122.5698	INQUIRY #: 4303774.2s DATE: May 22, 2015 1:13 pm

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Map ID Direction Distance Elevation			Database	EDR ID Number
1 **South** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	21-0051 E, SE, Varie 8.43 11.92 Not Reported 01/22/1998	**AQUIFLOW**	**39087**
A2 **South** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	21-0159 NE 4.23 7.02 Not Reported 01/21/1999	**AQUIFLOW**	**39191**
A3 **South** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	21-0203 NE 2.6 6.9 Not Reported 08/19/1998	**AQUIFLOW**	**65966**
4 **South** **1/2 - 1 Mile** **Lower**			**CA WELLS**	**3325**

Water System Information:

Prime Station Code:	03N/06W-18C01 M	User ID:	21C
FRDS Number:	2100570001	County:	Marin
District Number:	51	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	380645.0 1223357.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 01		
System Number:	2100570		
System Name:	EL NOVATO TRAILER PARK		
Organization That Operates System:	Not Reported		
Pop Served:	Unknown, Small System	Connections:	Unknown, Small System
Area Served:	Not Reported		

5 **South** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	21-0033 NNE 3.47 8.94 Not Reported 02/14/1997	**AQUIFLOW**	**39067**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94945	29	0

Federal EPA Radon Zone for MARIN County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 94945

Number of sites tested: 6

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	-0.083 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.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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.

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 Services
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 Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX C
EDR HISTORICAL DOCUMENTATION

100 Wood Hollow Drive
100 Wood Hollow Drive
Novato, CA 94945

Inquiry Number: 4303774.9
May 26, 2015

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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.

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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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Date EDR Searched Historical Sources:

Aerial Photography May 26, 2015

Target Property:

100 Wood Hollow Drive

Novato, CA 94945

Year	***Scale***	***Details***	***Source***
1942	Aerial Photograph. Scale: 1"=500'	Flight Year: 1942	USGS
1952	Aerial Photograph. Scale: 1"=500'	Flight Year: 1952	USGS
1968	Aerial Photograph. Scale: 1"=500'	Flight Year: 1968	USGS
1973	Aerial Photograph. Scale: 1"=500'	Flight Year: 1973	USGS
1982	Aerial Photograph. Scale: 1"=500'	Flight Year: 1982	USGS
1993	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1993	USGS/DOQQ
1998	Aerial Photograph. Scale: 1"=500'	Flight Year: 1998 Best Copy Available from original source	USGS
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP

SITE
INQUIRY #: 4303774.9
YEAR: 1942
= 500'
N
EDR

SITE
INQUIRY #: 4303774.9
YEAR: 1952
= 500'
N
EDR

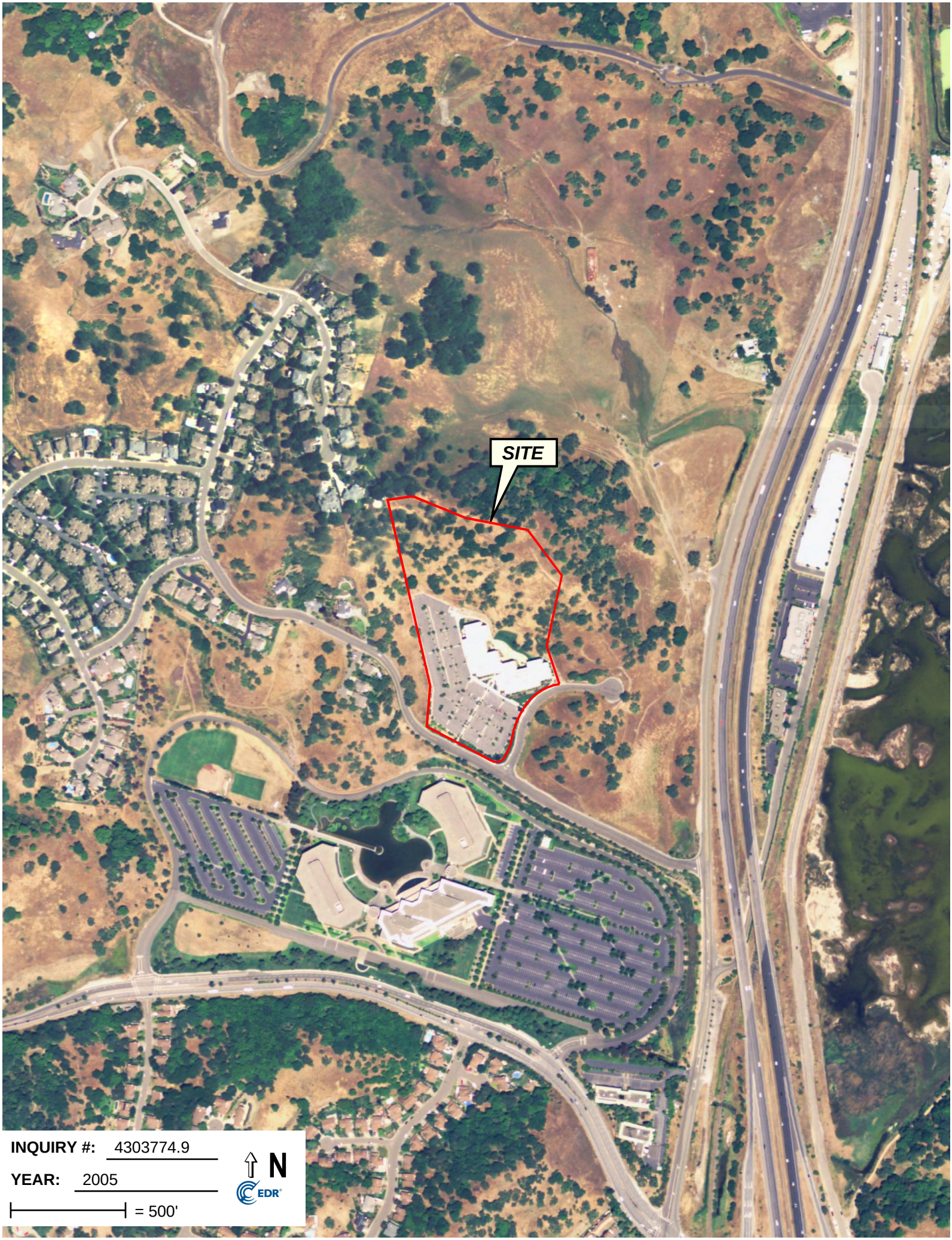
SITE
INQUIRY #: 4303774.9
YEAR: 1968
= 500'
N
EDR

SITE
INQUIRY #: 4303774.9
YEAR: 1973
= 500'
N
EDR

SITE
INQUIRY #: 4303774.9
YEAR: 1982
= 500'
N
EDR

SITE
INQUIRY #: 4303774.9
YEAR: 1993
= 500'
N
EDR

SITE
INQUIRY #: 4303774.9
YEAR: 1998
= 500'
N
EDR


SITE
INQUIRY #: 4303774.9
YEAR: 2005
= 500'
N
EDR

SITE
INQUIRY #: 4303774.9
YEAR: 2006
= 500'
N
EDR

SITE
INQUIRY #: 4303774.9
YEAR: 2009
= 500'
N
EDR

SITE
INQUIRY #: 4303774.9
YEAR: 2010
= 500'
N
EDR

SITE
INQUIRY #: 4303774.9
YEAR: 2012
= 500'
N
EDR

100 Wood Hollow Drive
100 Wood Hollow Drive
Novato, CA 94945

Inquiry Number: 4303774.5
May 26, 2015

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

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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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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report 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 Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2013	☑	☑	Cole Information Services
2008	☑	☑	Cole Information Services
2003	☑	☑	Cole Information Services
1999	☑	☑	Cole Information Services
1995	☑	☑	Cole Information Services
1992	☑	☑	Cole Information Services
1985	☐	☑	Haines Criss-Cross Directory
1980	☐	☑	Haines Criss-Cross Directory
1975	☐	☑	Haines Criss-Cross Directory

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FINDINGS

TARGET PROPERTY STREET

100 Wood Hollow Drive
Novato, CA 94945

Year	*CD Image*	*Source*	
WOOD HOLLOW DR			
2013	pg A2	Cole Information Services	
2008	pg A5	Cole Information Services	
2003	pg A8	Cole Information Services	
1999	pg A10	Cole Information Services	
1995	pg A12	Cole Information Services	
1992	pg A14	Cole Information Services	
1985	-	Haines Criss-Cross Directory	Street not listed in Source
1980	-	Haines Criss-Cross Directory	Street not listed in Source
1975	-	Haines Criss-Cross Directory	Street not listed in Source

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*

SAN MARIN DR

2013	pg. A1	Cole Information Services
2008	pg. A3	Cole Information Services
2003	pg. A6	Cole Information Services
1999	pg. A9	Cole Information Services
1995	pg. A11	Cole Information Services
1992	pg. A13	Cole Information Services
1985	pg. A15	Haines Criss-Cross Directory
1980	pg. A16	Haines Criss-Cross Directory
1975	pg. A17	Haines Criss-Cross Directory

City Directory Images

Target Street	Cross Street	Source
-	✓	Cole Information Services

SAN MARIN DR 2013

472	KIRK LEAR
473	ANDREW SERRATO
474	SHANNON REILLY
475	CHRIS PLANINSHEK
476	MARY GOEPP
477	JOEY VANDERMEI
478	ERIC SCHNEIDER
481	SHERRI JEWELL
483	ROBERT THOMPSON
485	VICTORIA SANDERS
487	IGOR ANISIN
489	MARION ALLYN
491	BRITA LACY
493	KOHTA OKUGAWA
	THEODORE CROWLEY
495	SEVENTHDAY AVENTIST CHURCH
	TRINITY PRESBYTERIAN CHURCHOPC
504	IGNACIO AGUINAGALDE
505	ADP NOVATO
	FERN INSURANCE AGENCY
	FRED DANIEL I AICP
	GOLDSMITH LARRIE MA DC
	HOLLAND COFFEE CALIFORNIA
	INSIGHT COMPUTING
	LARRIE GOLDSMITH
	LORETTA CABANSAG
	SLR FINANCIAL
	TOLENTINO LORETTA E A
	WESTERN PACIFIC RENAL NETWORK
508	BAY AREA CLEANING SERVICES
	OCCUPANT UNKNOWN
773	ENVIRON
	LIFE SALES LLC
	M F D LIFE SALES
	TRAVELSMITH OUTFITTERS INC
	WILLIS LEASE FINANCE CORPORATION
777	FIREMANS FUND INSURANCE COMPANY

Target Street	Cross Street	Source
✓	-	Cole Information Services

WOOD HOLLOW DR 2013

100	INDURA ASSISSTANCE
	QUADRANT DATA SYSTEMS INC
400	TOMMY BIRD
404	ALBERT LOCOCO
408	THOMAS SWANSON
412	JUST HUNTER
416	HYUN KIM
420	MAHYAR PORTABIB
424	WALTER PERLIC
428	MICHELLE DULEBOHN
429	MURRY PHILLIPS
432	OCCUPANT UNKNOWN
433	SUSAN BLANKENBERG
436	STEVEN WILSON
437	HAROLD WASSERMAN
440	JOAN RENTSCH
441	HENRY HAUSER
444	OCCUPANT UNKNOWN
445	GREGORY ARATA
448	OCCUPANT UNKNOWN
452	JON HAMMER
456	STEVE KRAMME
459	JOSEPH HOFFMAN

Target Street	Cross Street	Source
-	✓	Cole Information Services

SAN MARIN DR 2008

472	KIRK LEAR
	KIRK LEAR CONSTRUCTION
473	JULIE ABRAMS
474	MARY REILLY
475	CHRIS PLANINSHEK
	GIL HAULING
476	MARY GOEPP
477	LESTER VOLLMER
478	AUDREY SCHNEIDER
479	OCCUPANT UNKNOWN
481	SHERRI GREEN
483	RICHARD RAY
485	STEPHEN DRISCOLL
487	IGOR ANISIN
489	MARION ALLYN
491	JAMES LACY
493	MARK WALAS
	NOELLE LEONARD
	OCCUPANT UNKNOWN
	SOTERO TAVARES
495	NOVATO SDA ELEMENTARY SCHOOL
	NOVATO SEVENTH DAY ADVENTIST CHURCH
504	ION AGUINAGALDE
505	D J FORRY CO INC
	FERN INSURANCE AGENCY
	FRED CONSULTING ASSOCIATES
	HOLLAND COFFEE CALIFORNIA INC
	HOLLAND COFFEE INC
	INSIGHT COMPUTING LLC
	JOFFE MARTIN MD
	KATHERINE JONES MD
	KELLEY & DUNLOP APPRAISAL SERVICES
	LARRIE GOLDSMITH
	LARRIE GOLDSMITH MADC
	LEE CHARLES F LAW OFFICES OF
	LORETTA CABANSAG
	MVP FINANCIAL EQUIPMENT CORP
	NETWORK MANAGEMENT CORP
	NOVATO PEDIATRICS
	RICHARDSON CONSULTING
	SAN MARIN EXECUTIVE CENTER BUILDING
	SEXTON JOFFE URBACH MD
	SEXTONJOFFE & URBACH MEDICAL
	TRANSPACIFIC RENAL NETWORK
	WESTERN PCF RENAL NETWORK LLC
	WILLIAM E WECKER & ASSOCIATES INC
508	ARMANDO TRUCIOS
	BAY AREA MAINTENANCE CO
773	LIFE SALES
777	ALLIANCE OF AMERICA CORP

Target Street	Cross Street	Source
-	✓	Cole Information Services

SAN MARIN DR 2008 (Cont'd)

777	ASSOCIATED INDEMNITY CORP
	FFIC COM
	FIREFUND INSURANCE
	FIREMAN S FUND RISK MGMT SERVICES
	FIREMANS INSURANCE CO
	IN STRUCTURED SECURITY CO
	NATIONAL SURETY CORP
	SAN FRANCISCO REINSURANCE CO
	THE AMERICAN INSURANCE CO

Target Street	Cross Street	Source
✓	-	Cole Information Services

WOOD HOLLOW DR 2008

100	FIDNATIS
	GREEN POINT MORTGAGE FUNDING I
	GREENPOINT MORTGAGE
	GREENPOINT MRTG SECURITIES INC
	HEADLANDS MORTGAGE CO
404	KENDAL LOCOCO
408	THOMAS SWANSON
412	M POURTABIB
416	HYUN KIM
420	MAHYAR PORTABIB
424	W2KL INC
	WALTER PERLIC
428	DEBORAH STORMS
429	TIM RUSSELL
432	BAY COMMERCIAL ADVISORS
	BUMPER WAGONER
433	SUSAN BLANKENBERG
436	STEVEN WILSON
437	HAROLD WASSERMAN
440	MICHAEL CLINTON
	PTP TORQUE CONVERTERS
441	HENRY HAUSER
444	DONALD TORRE
445	ARATA CONSULTING & MARKETING
	GREGORY ARATA
448	DEBORAH RYKEN
452	KEVIN CARAMUCCI
456	STEVE KRAMME
459	JOSEPH HOFFMAN

Target Street	Cross Street	Source
-	✓	Cole Information Services

SAN MARIN DR 2003

472	KARON BICK
473	JULIE ABRAMS
474	MARY REILLY
475	MARY KNIGHT
476	MARY GOEPP
477	RON BRABO
	VOLLMER CONSTRUCTION CO
478	AUDREY SCHNEIDER
479	RONALD GUNDERSON
481	SHERRI GREEN
483	JENNIFER HANSON
485	STEPHEN DRISCOLL
487	IGOR ANISIN
489	MARION ALLYN
491	OCCUPANT UNKNOWN
493	MARK WALAS
	NOELLE LEONARD
	WOODY ROSS
495	NOVATO CHRISTIAN SCHOOL
	OCCUPANT UNKNOWN
504	OCCUPANT UNKNOWN
505	ALAN NIETLISBACH
	APPLIED DM RESEARCH
	ATS INTEGRATION INC
	CHARLES LEE
	DANIEL FRED
	DECISION ECONOMICS INC
	DJ FORRY CO
	DONALD COLLINS
	DONALD PEDRICK
	EC BRANDS CORP
	FORRY D J CO
	FRED CONSULTING
	HOLLAND COFFEE CALIFORNIA INC
	KATHERINE JONES
	KELLEY & DUNLOP APPRAISAL
	LEE CHARLES F LAW OFFICES
	MARTIN JOFFE
	NETWORK MANAGEMENT COR
	PETER MCDONALD
	PORTAL SOLUTIONS LLC
	STEPHEN HOFF
	WARREN CAPITAL CORP
	WILLIAM E WECKER ASSOC
	WOOD WARREN CO
508	ARMANDO TRUCIOS
777	ALLIANZ
	ALLIANZ OF AMERICA CORP
	AMERICAN AUTOMOBILE INSURANCE CO
	FAMEX INC

Target Street	Cross Street	Source
-	✓	Cole Information Services

SAN MARIN DR 2003 (Cont'd)

777	FIREMANS FUND AGRIBUSINESS INC FRMNS FUND RISK MNGMNT SRVC INTERSTATE NATIONAL CORP

Target Street	Cross Street	Source
✓	-	Cole Information Services

WOOD HOLLOW DR 2003

100	ADAM KLEIN
400	CAROLUS OJONG
404	MARY PISCHKE
408	THOMAS SWANSON
412	M POURTABIB
416	HYUN KIM
420	MAHYAR POURTABIB
424	WALTER PERLIC
428	JIM LOUDERBACH
429	OCCUPANT UNKNOWN
432	CHILIN YEN
433	SUSAN BLANKENBURG
436	CRAIG LUBEY
437	HAROLD WASSERMAN
440	MICHAEL CLINTON
441	HENRY HAUSER
444	DONALD TORRE
445	ARATA MARKETING CONSULTANT
	GREGORY ARATA
448	JAMES DUNN
452	KEVIN CARAMUCCI
456	STEVE KRAMME
459	JOSEPH HOFFMAN

Target Street	Cross Street	Source
-	✓	Cole Information Services

SAN MARIN DR 1999

472	KIRK LEAR
473	JULIE ABRAMS
474	JOHN COLLA
	SHANNON REILLY
475	CHRIS PLANINSHEK
	OCCUPANT UNKNOWN
476	MARY GOEPP
477	JOEY VANDERMEI
	OCCUPANT UNKNOWN
478	ERIC SCHNEIDER
481	SHERRI GREEN
483	JACK HANSON
	RICHARD RAY
485	STEPHEN DRISCOLL
487	IGOR ANISIN
489	MARION ALLYN
	OCCUPANT UNKNOWN
491	BRITA LACY
493	MARK WALAS
	RUBEN SANCHEZ
495	SEVENTH DAY ADVENTIST ELEMENTARY SCHOOL
504	ION AGUINAGALDE
	OCCUPANT UNKNOWN
505	ADVANCED TELECOM SYSTEMS
	APPLIED DM RESEARCH
	ASCENT CASH FLOW SYSTEMS
	ATS
	BUCK CENTER FOR RESEARCH IN AGING
	EVERGREEN CLINIC
	FRED CONSULTING
	FRED VERMEDA M MFCC EVERGREEN CLINIC
	H & W TELECOM
	HAIMOVITCH MARLENE EVERGREEN CLINIC
	LARRIE GOLDSMITH
	LIND CHERYL PT
	LORETTA CABANSAG
	METIFAIRE FINANCIAL SERVICES
	PATS APPLIANCE
	PEDRICK & ASSOCIATES
	PRESIDIO PRESS
	RICHARDSON CONSULTING GROUP INCORPORATED THE
	WARREN CAPITAL CORPORATION
508	ARMANDO TRUCIOS
777	AMERICAN INSURANCE COMPANY THE
	FIRE FUND CREDIT UNION
	FIREMANS FUND INSURANCE COM
	FIREMANS FUND INSURANCE COMP ANIES PERSONNEL DEPARTMENT
	FIREMANS FUND INSURANCE COMPANIES HOME OFFICE
	SAN FRANCISCO REINSURANCE

Target Street	Cross Street	Source
✓	-	Cole Information Services

WOOD HOLLOW DR 1999

404	KENDAL FARRAR-LOCOCO
408	THOMAS SWANSON
412	MAHSH POURTABIB
416	HYUN KIM
420	MAHYAR PORTABIB
424	WALTER PERLIC
428	DEBORAH NALBANDIAN
432	BUMPER WAGONER
	OCCUPANT UNKNOWN
433	SUSAN BLANKENBERG
436	CRAIG LUBEY
437	HAROLD WASSERMAN
440	MICHAEL CLINTON
441	HENRY HAUSER
	OCCUPANT UNKNOWN
444	DONALD TORRE
445	GREGORY ARATA
448	DEBORAH RYKEN
452	JON HAMMER
456	STEVE KRAMME
459	JOSEPH HOFFMAN

Target Street	Cross Street	Source
-	✓	Cole Information Services

SAN MARIN DR 1995

472	BICK, KARON K
473	JOHNSTON, HARRY
474	REILLY, MARY A
475	OCCUPANT UNKNOWNN
476	GOEPP, PETER E
477	VOLLMER, MAUREEN R
478	SCHNEIDER, AUDREY
481	GREEN, SHERRI
	JEWELL, GARY
483	CRAIG, LYNNE
487	SIGONA, S G
489	OCCUPANT UNKNOWNN
491	LACY, JAMES E
495	GRADY, W L
	SEVENTH DAY ADVENTIST CHURCH
505	ABBY TANEM
	ASCENT CASH FLOW SYSTEMS
	BUCK CENTER FOR RESEARCH
	CHARLES F LEE LAW OFFICES
	D C HEATH & CO
	DENCO INC
	DIS INFORMATION SYSTEMS
	DONALD M KENEPP & ASSOC
	EVERGREEN CLINIC
	FRED, DANIEL I
	GENERAL CHEMICAL CORP
	GOLDEN GATE EQUIPMENT CONTR
	JOFFE, MARTIN
	JONES, K
	KATHERINE JONES MD
	KELLEY DUNLOP & GREY SVC
	LIND, CHERYL
	MARLENE HAIMOVITCH
	MARTIN JOFFE MD
	MICHELE SALONER PHD
	NANCY V LONG PHD
	NOVATO BACK CARE
	ORBIT SOFTWARE INC
	PRESIDO PRESS
	WARREN CAPITAL CORP
508	OCCUPANT UNKNOWNN
777	ASSOCIATED INDEMNITY CORP
	FIREMANS FUND INSURANCE

Target Street	Cross Street	Source
✓	-	Cole Information Services

WOOD HOLLOW DR 1995

404	CLARK, TERRY
	SARNI, DENNIS
408	OCCUPANT UNKNOWNN
412	POURTABIB, MAHSHID
416	YU, SANG H
420	POURTABIB, FUNG J
424	OCCUPANT UNKNOWNN
428	RUTKOWSKI, ROBERT
	RUTOWSKI, R
429	MCGRATH, TERRY
432	KINDER, COLETTE
433	AMY, RON
	KRANZ, HOLLIE
436	GOLDBERG, JAMES
437	OCCUPANT UNKNOWNN
440	CLINTON, MICHAEL
441	HAUSER, MARY J
444	OCCUPANT UNKNOWNN
445	ARATA, GREGORY
448	PIERCE, ROBERT
456	CONNOLLY, PETER P
459	HOFFMANN, JOSEPH H

Target Street	Cross Street	Source
-	✓	Cole Information Services

SAN MARIN DR 1992

473	JOHNSTON, HARRY
474	FUCHS, MICHAEL J
	REILLY, MARY A
476	GOEPP, PETER E
495	SEVENTH DAY ADVNTST
505	APEX TECHNOLOGY
	BUCK CENTER RSRCH
	D I S INFO SYSTEMS
	FRED CONSULTING
	GENL CHEMICAL CORP
	HEATH D C&CO CLG
	JOFFE MARTIN MD
	KENEPP DONALD M&ASC
	KNUD HOSTRUP INC
	NOVATO BACK CARE
	ORBIT SOFTWARE INC
	PRESIDO PRESS
	SCHARFFENBERGER SCI
	SOLONER MICHELE PHD
	WARREN CAPTL CORP
	WECKER WM ASSOCTS
777	AMER INS CO THE

Target Street	Cross Street	Source
✓	-	Cole Information Services

WOOD HOLLOW DR 1992

404	CLARK, TERRY
	SARNI, DENNIS
412	POURTABIB, MAHSHID
416	KIM, SOON
420	POURTABIB, FUNG J
429	MCGRATH, TERRY
433	AMY, RON
	KRANZ, HOLLIE
436	CHENNELL, DOUGLAS
440	CLINTON, MICHAEL
	ROSSI, JOHN
445	ARATA, GREGORY
448	PIERCE, ROBERT

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

SAN MARIN DR 1985

481	GEORGE BRIAN J	897-0517	7
483	CRAIG K	897-8197	1
485	STICKNEY NEIL A	892-6886	0
489	XXXX	00	
491	XXXX	00	
493A	KONSTANTINOV M	892-5101	7
B	CLARK MICHAEL G	892-8901	3
495	SEVENTH DY ADVNT CH	897-2600	4
	SEVENTH DY ADVNT SC	892-9166	3
496	XXXX	00	
504	XXXX	00	
508	PEKONEN D	897-2740	4
801	XXXX	00	
NO #	CHRISTENSEN&FOSTER	897-3561	+5
NO #	FIREMANS FUND INS	899-2000	4
NO #	FIREMANS FUND INS	899-2517	4
NO #	FIREMANS FUND INS	899-3325	4
NO #	FIREMANS FUND INS	899-2000	
NO #	FIREMANS FUND INS	899-2111	4
NO #	SUTTI CONSTRUCTION	892-3039	+5
★	99 BUS 189 RES	53 NEW	

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

SAN MARIN DR 1980

470	BRADLEY PAUL	892-5904+0
	SCHULTZ W H	892-5904+0
471	GROSSKOPF GEO W	897-3990 7
472	LEAR BARRY	892-5352 9
473	JOHNSTON HARRY	897-5730 7
474	FAHS GLEN M	897-7371 9
475★	**MARINCO APPRAISERS**	**892-7030+0**
	SIEBERT WM W	897-2668 7
476	GOEPP PETER E	892-5835 9
477	JONES ELSIE	897-8197+0
479	EZGAR J	897-4656 9
481	GEORGE BRIAN J	897-0517 7
483	MAUND JANE M	892-6703 9
485	STIRKNEY NEIL A	892-6886+0
489	FRAUTON JANICE	892-7125+0
491	PATTERSON TIM W	897-8444 9
493A	KONSTANTINOV M	892-5101 7
495★	**SEVENTH DAY ADVNTST**	**897-2600** 6
496	SMIGELSKY LYN	897-1843+0
★	36 BUS 170 RES	63 NEW

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

SAN MARIN DR 1975

318	FAIRES BILLIE	897-9118+5
322	WRIGHT JOHN E	897-4649+5
452	YOUNG W C	892-2673+5
454	HURD REGINALD	892-9521+5
465	*KAUFMAN&BROAD CNSTR	897-8344+5
	*KAUFMAN&BROAD SALES	897-5179+5
472	PRINCE M L	892-2226+5
474	KREML ROGER L	892-9218+5
476	AUSTIN S W	897-4511+5
495	*7TH DAY ADVNTST CH	897-2600
801	*DAVIS REALTY CO	897-3122 4
	* 26 BUS 21 RES	31 NEW

100 Wood Hollow Drive
100 Wood Hollow Drive
Novato, CA 94945

Inquiry Number: 4303774.3
May 22, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

5/22/15

Site Name:
100 Wood Hollow Drive
100 Wood Hollow Drive
Novato, CA 94945

Client Name:
Tetra Tech Inc.
17885 Von Karman Ave
Irvine, CA 92614

EDR Inquiry # 4303774.3

Contact: Tanya Maclean

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Certified Sanborn Results:

Site Name: 100 Wood Hollow Drive
Address: 100 Wood Hollow Drive
City, State, Zip: Novato, CA 94945
Cross Street:
P.O. # NA
Project: NA
Certification # 4D9A-4011-9668

UNMAPPED PROPERTY

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Sanborn® Library search results
Certification # 4D9A-4011-9668

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- ✔ Library of Congress
- ✔ University Publications of America
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100 Wood Hollow Drive
100 Wood Hollow Drive
Novato, CA 94945

Inquiry Number: 4303774.4
May 22, 2015

EDR Historical Topographic Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

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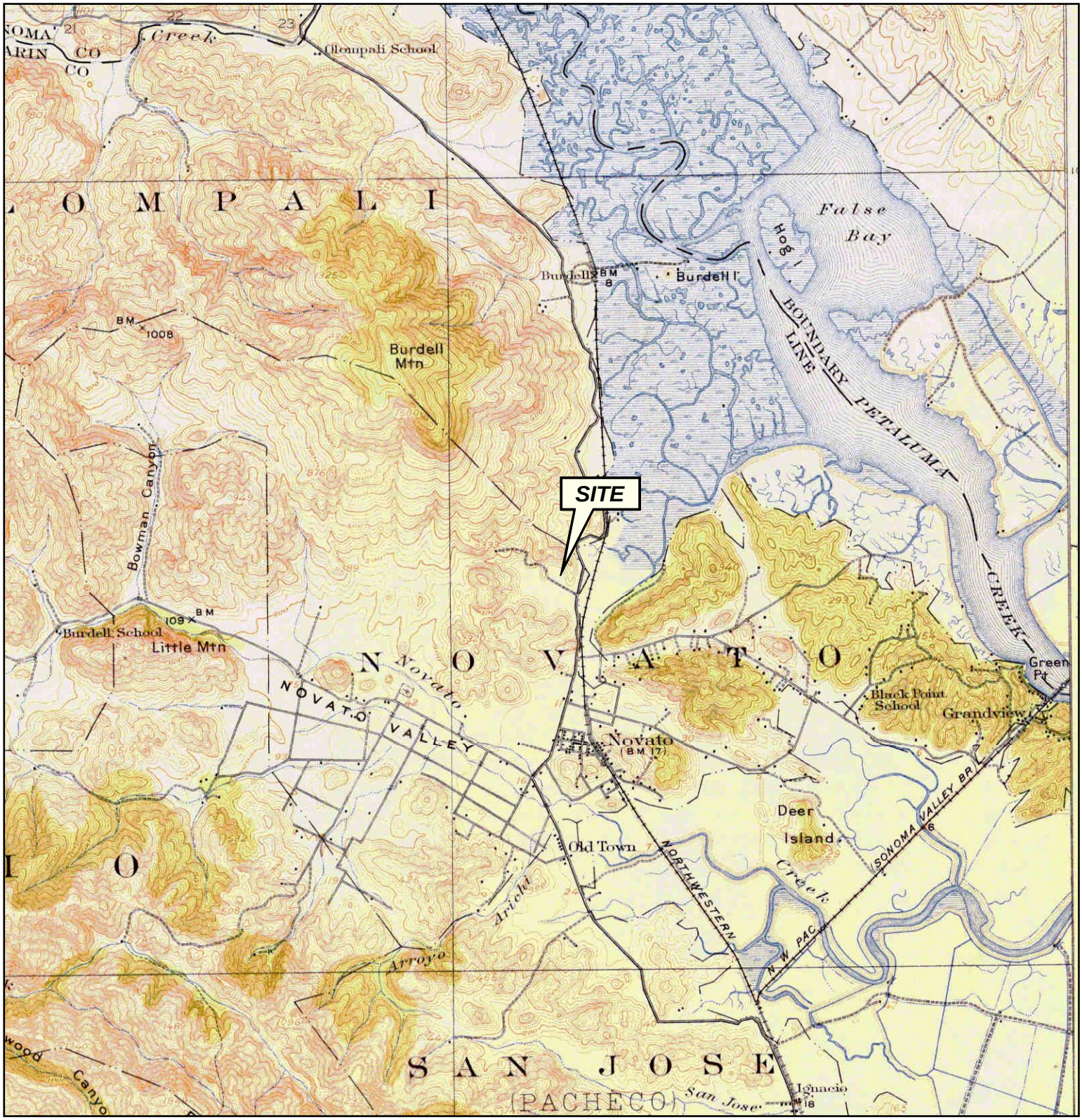
Historical Topographic Map



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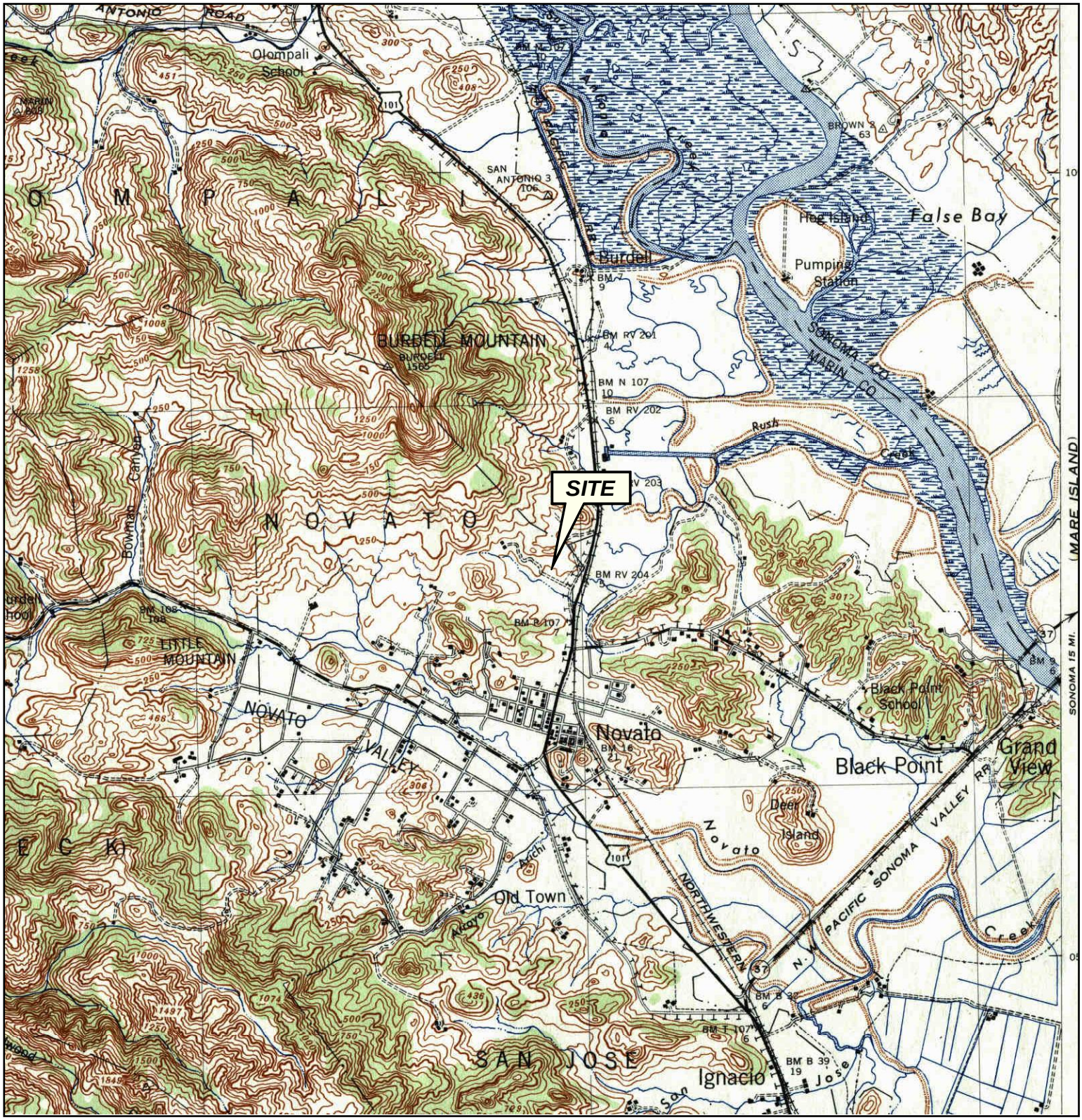

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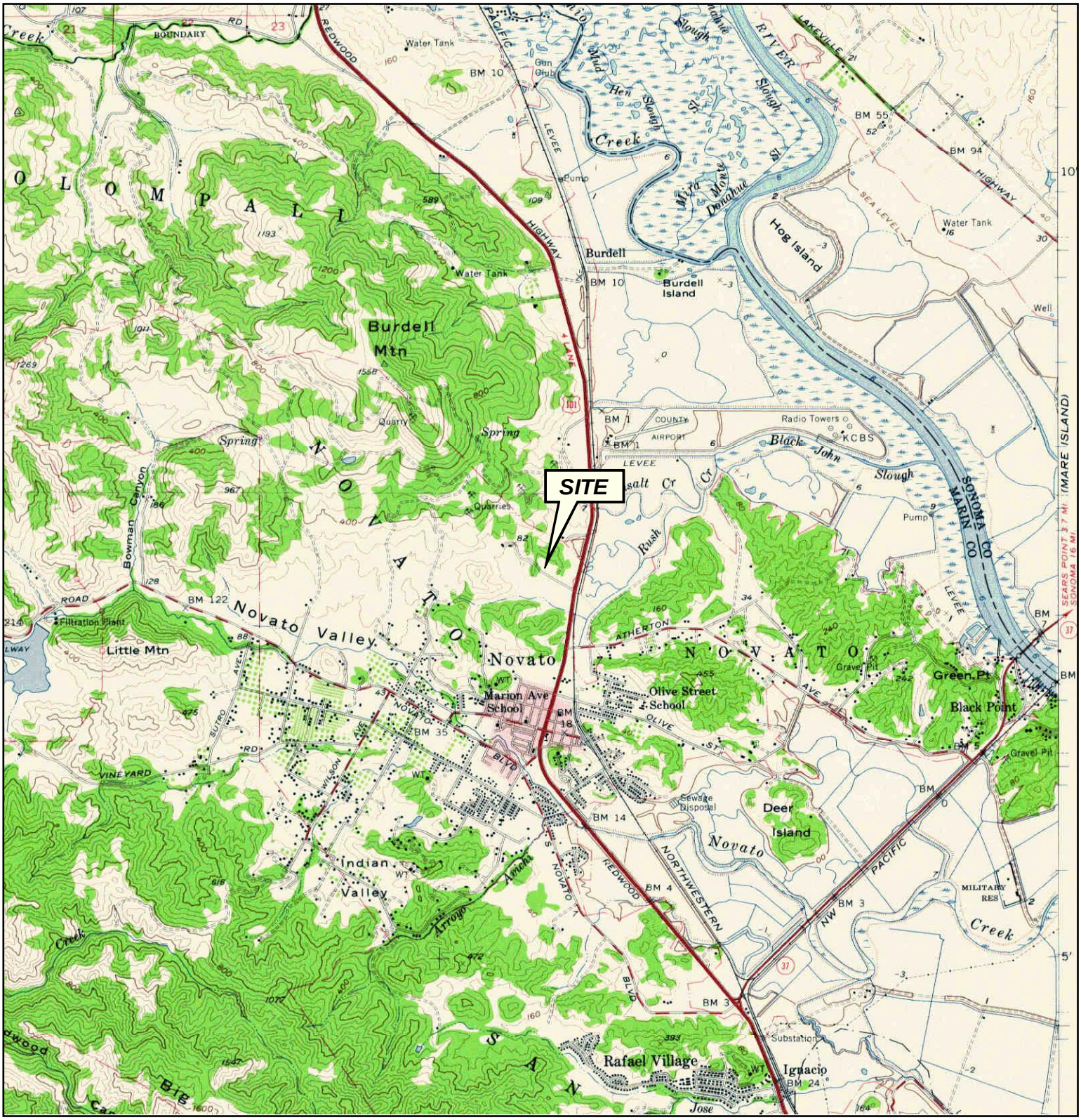

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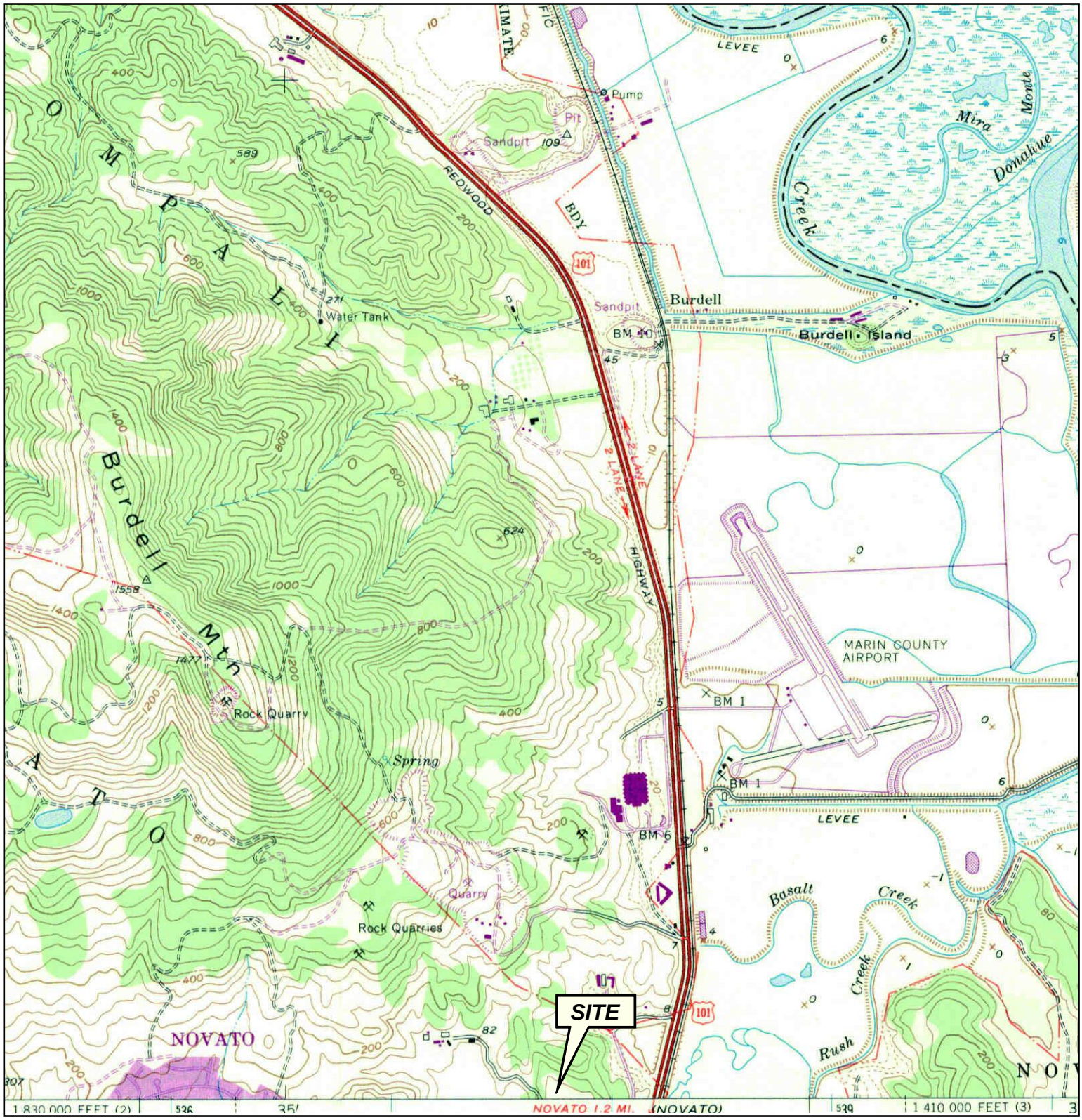
Historical Topographic Map

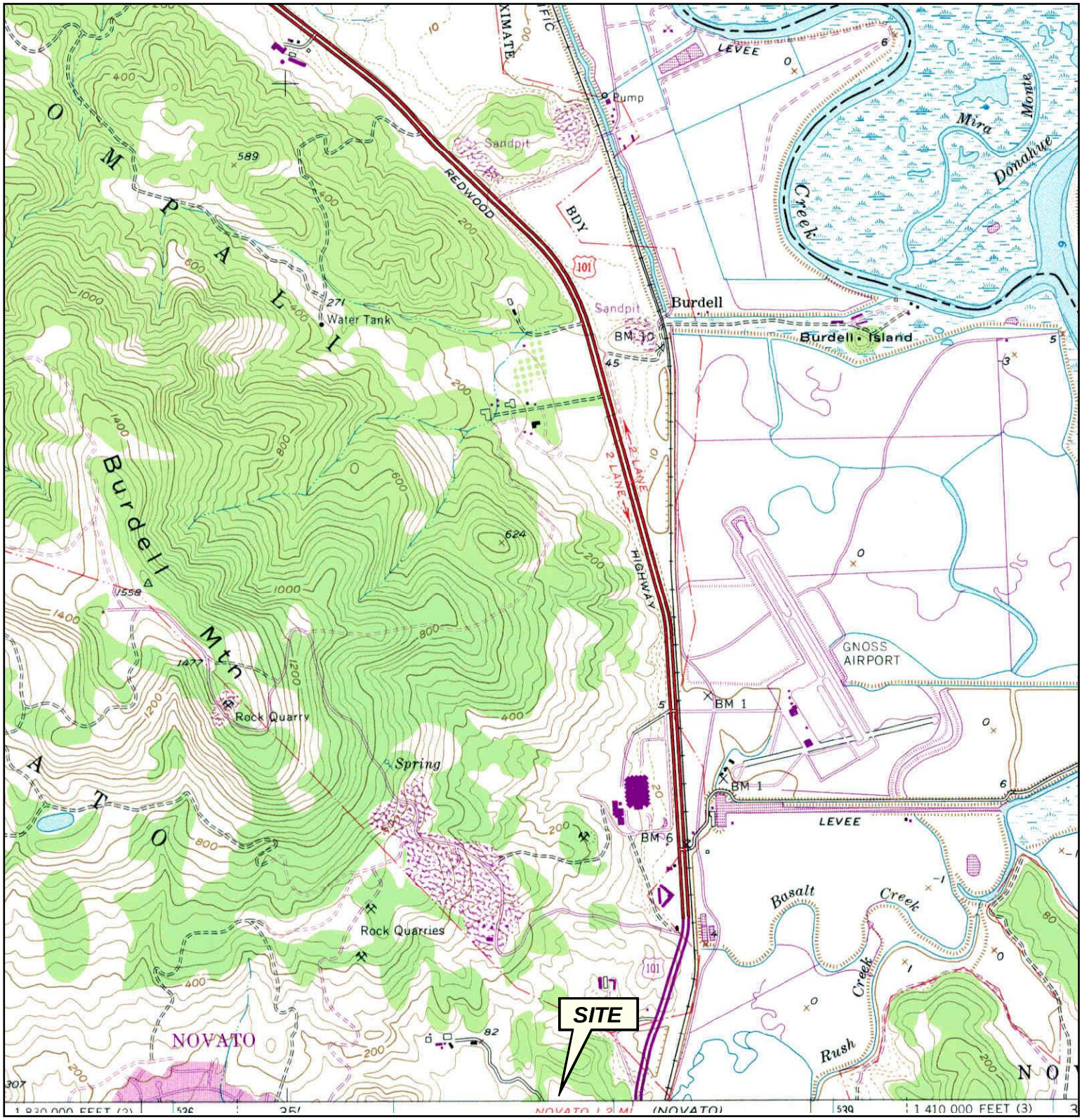
N	TARGET QUAD NAME: PETALUMA RIVER MAP YEAR: 1954 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 100 Wood Hollow Drive ADDRESS: 100 Wood Hollow Drive Novato, CA 94945 LAT/LONG: 38.1257 / -122.5698	CLIENT: Tetra Tech Inc. CONTACT: Tanya Maclean INQUIRY#: 4303774.4 RESEARCH DATE: 05/22/2015

Historical Topographic Map



N	TARGET QUAD NAME: PETALUMA RIVER MAP YEAR: 1968 PHOTOREVISED FROM :1954 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 100 Wood Hollow Drive ADDRESS: 100 Wood Hollow Drive Novato, CA 94945 LAT/LONG: 38.1257 / -122.5698	CLIENT: Tetra Tech Inc. CONTACT: Tanya Maclean INQUIRY#: 4303774.4 RESEARCH DATE: 05/22/2015

Historical Topographic Map



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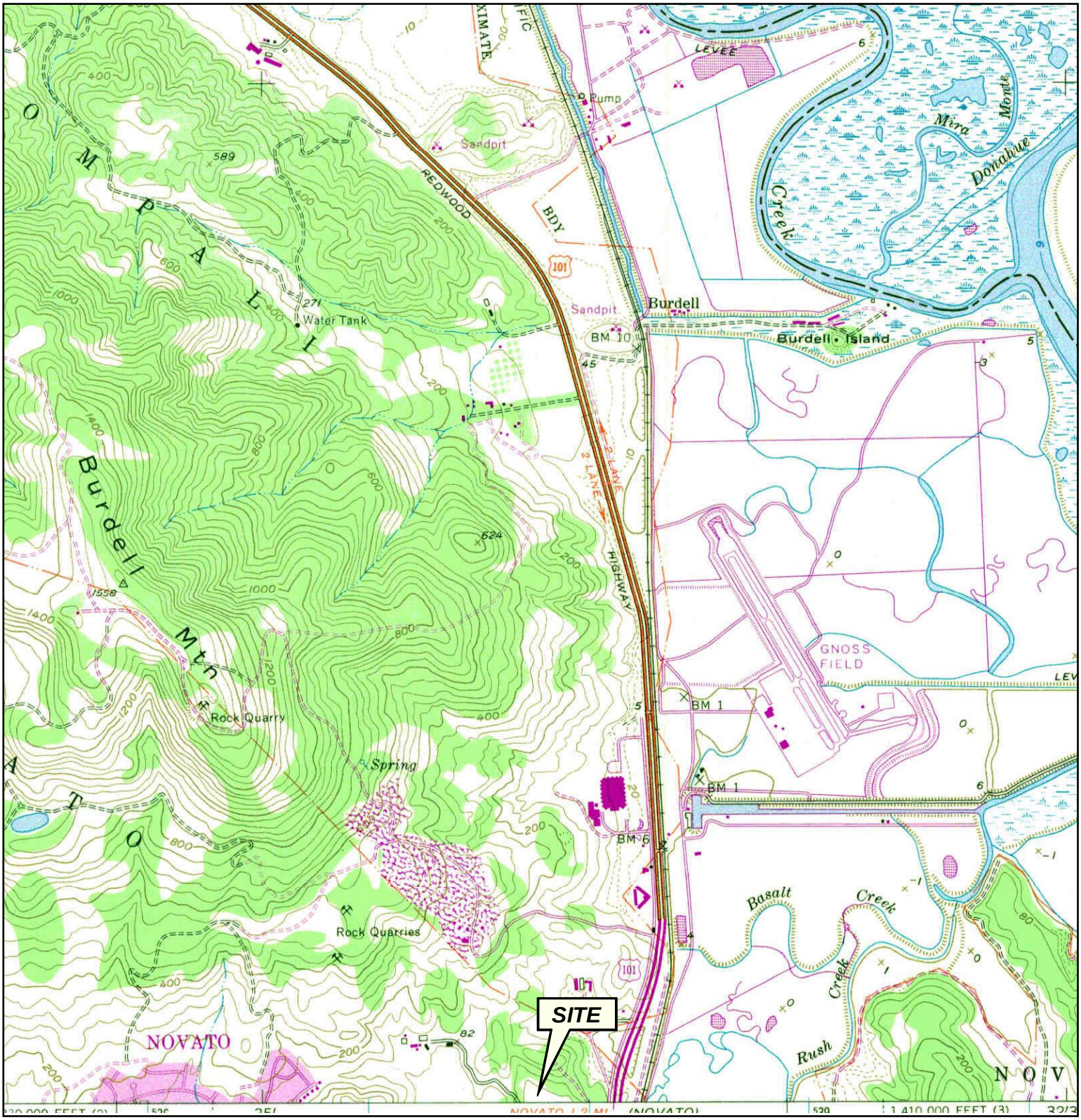

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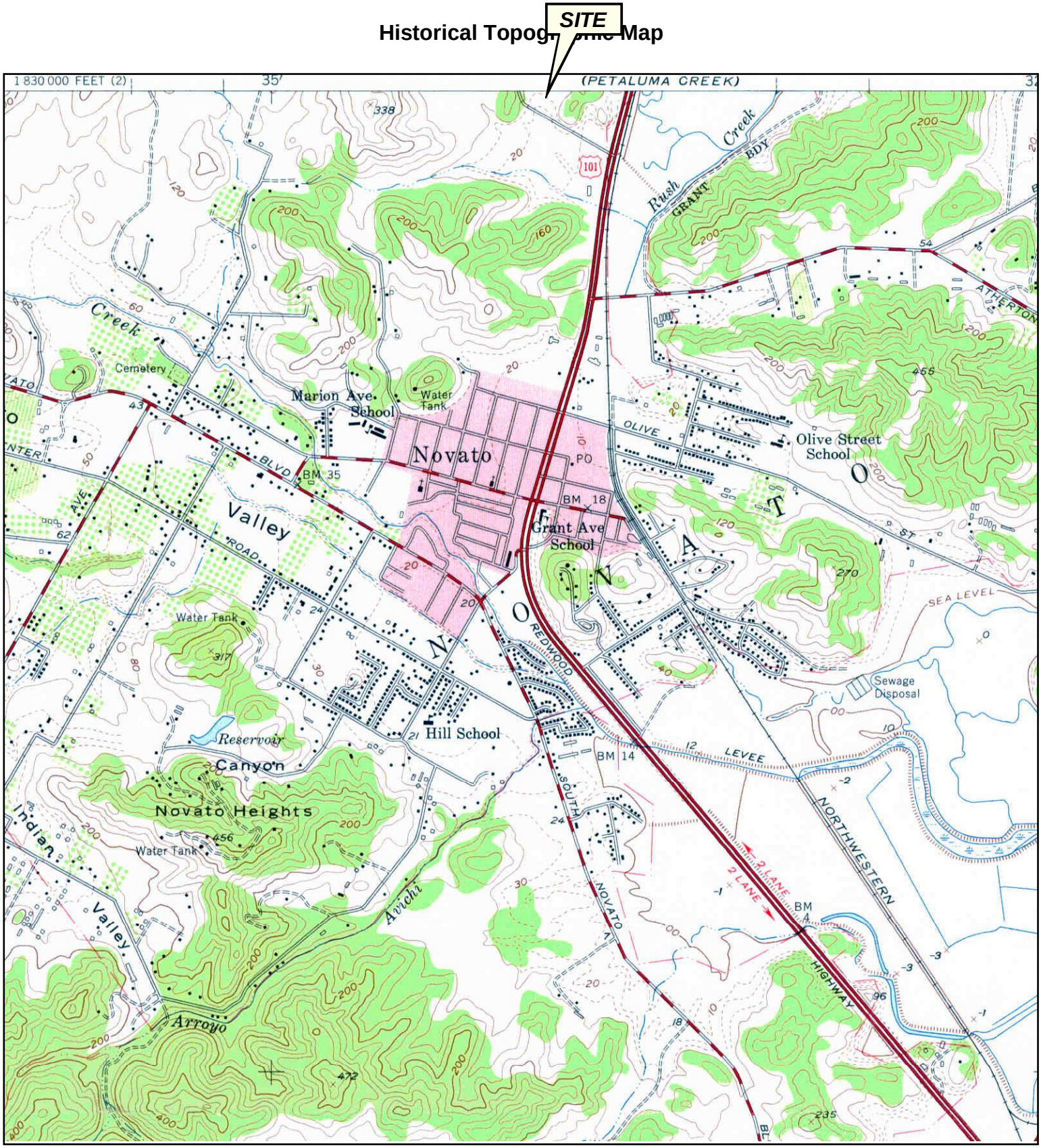
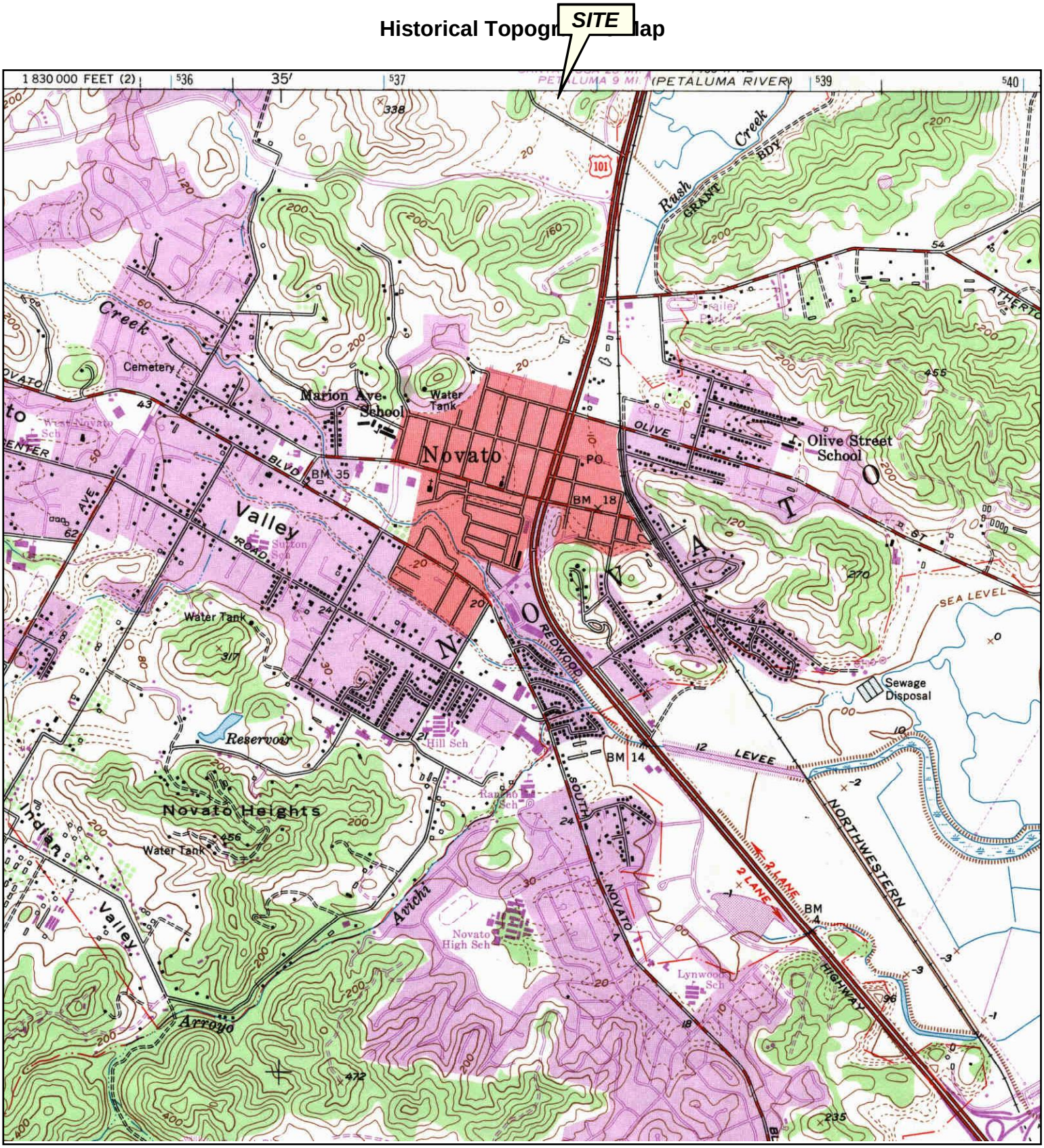
Historical Topographic Map



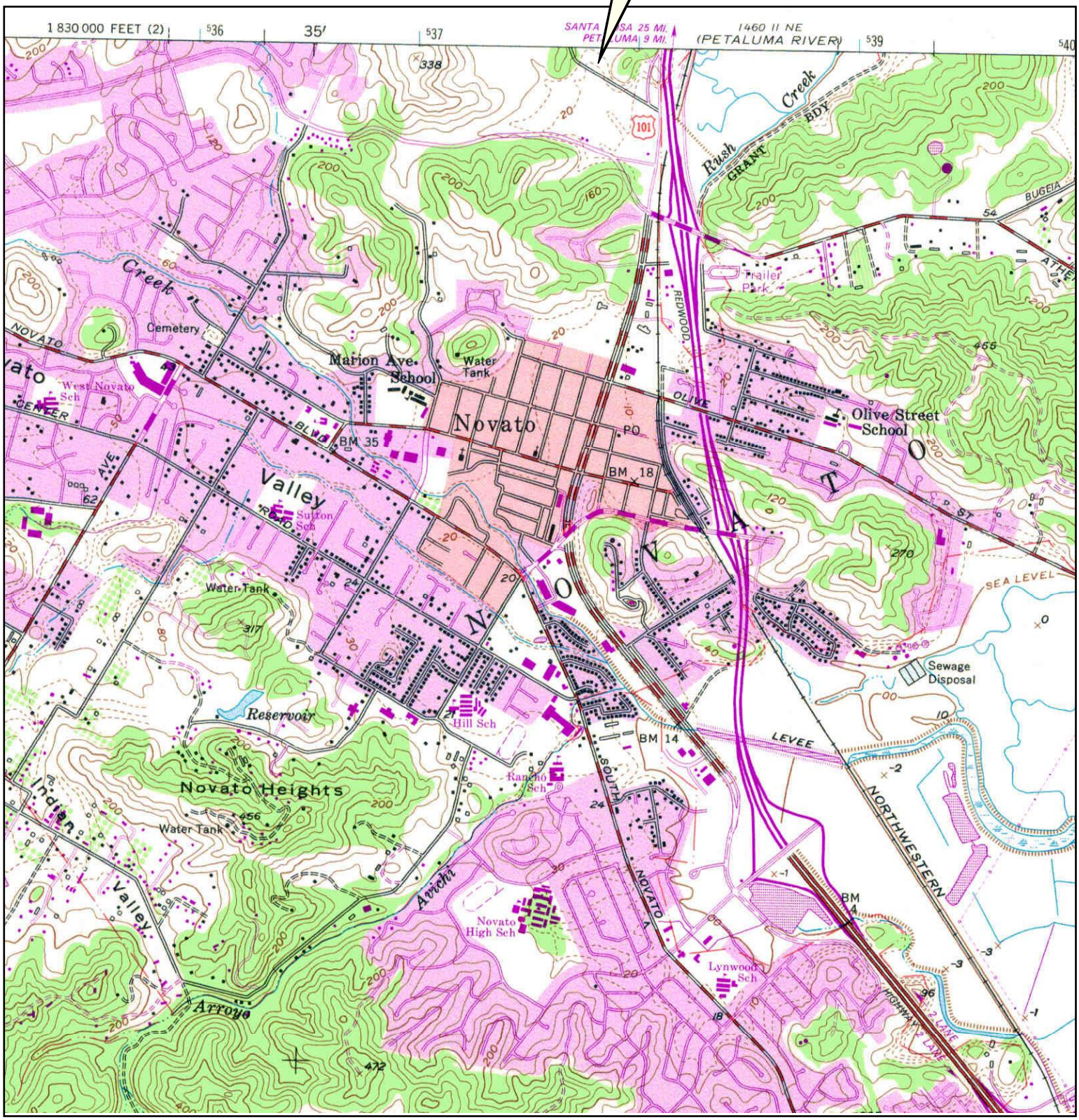
N	ADJOINING QUAD NAME: NOVATO MAP YEAR: 1954 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 100 Wood Hollow Drive ADDRESS: 100 Wood Hollow Drive Novato, CA 94945 LAT/LONG: 38.1257 / -122.5698	CLIENT: Tetra Tech Inc. CONTACT: Tanya Maclean INQUIRY#: 4303774.4 RESEARCH DATE: 05/22/2015

Historical Topographic Map



N	ADJOINING QUAD NAME: NOVATO MAP YEAR: 1968 PHOTOREVISED FROM :1954 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 100 Wood Hollow Drive ADDRESS: 100 Wood Hollow Drive Novato, CA 94945 LAT/LONG: 38.1257 / -122.5698	CLIENT: Tetra Tech Inc. CONTACT: Tanya Maclean INQUIRY#: 4303774.4 RESEARCH DATE: 05/22/2015

Historical Topographic Map



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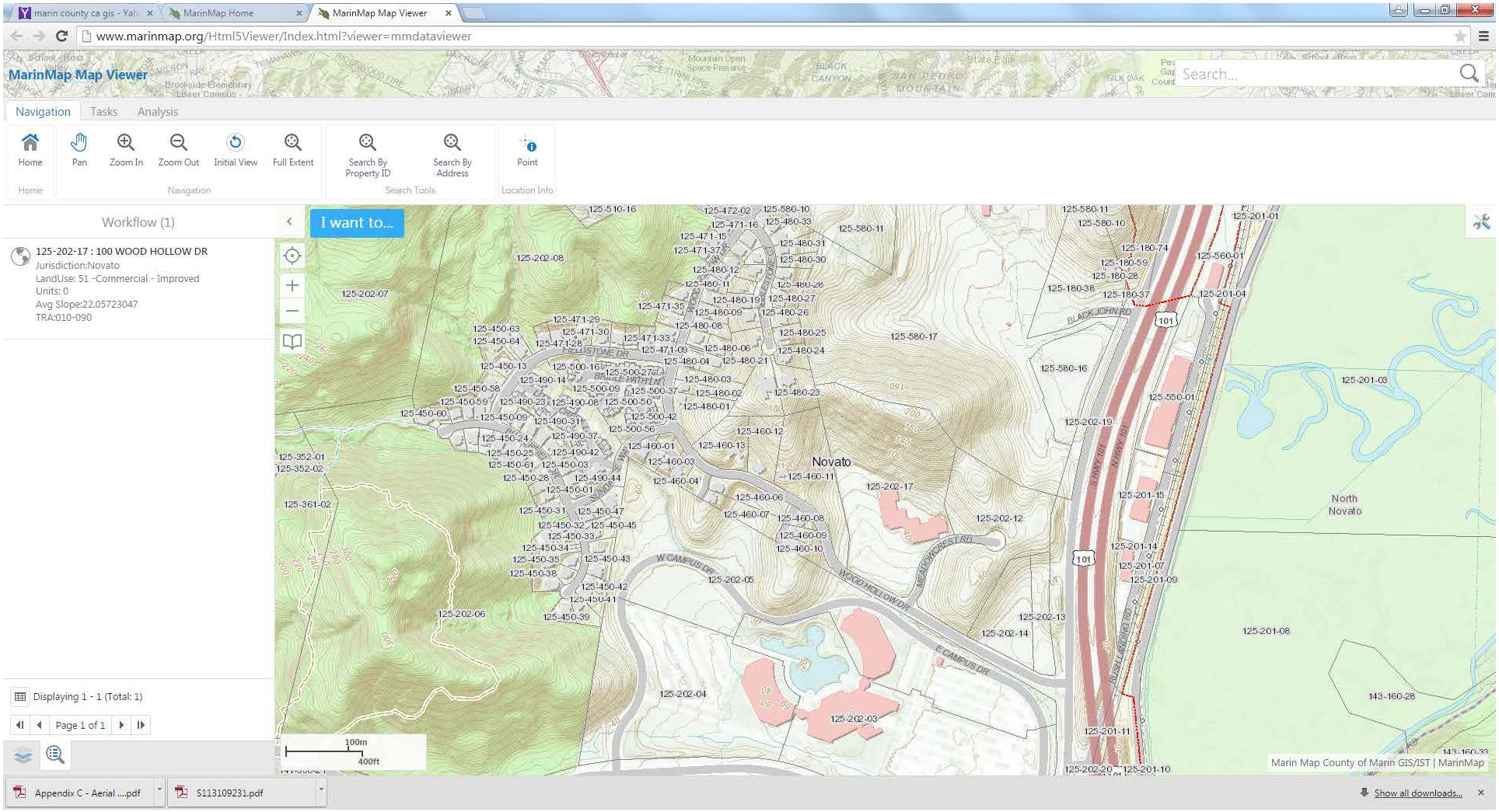
APPENDIX D
ADDITIONAL RELEVANT DOCUMENTATION


marin county ca gis - Yah
MarinMap Home
MarinMap Map Viewer
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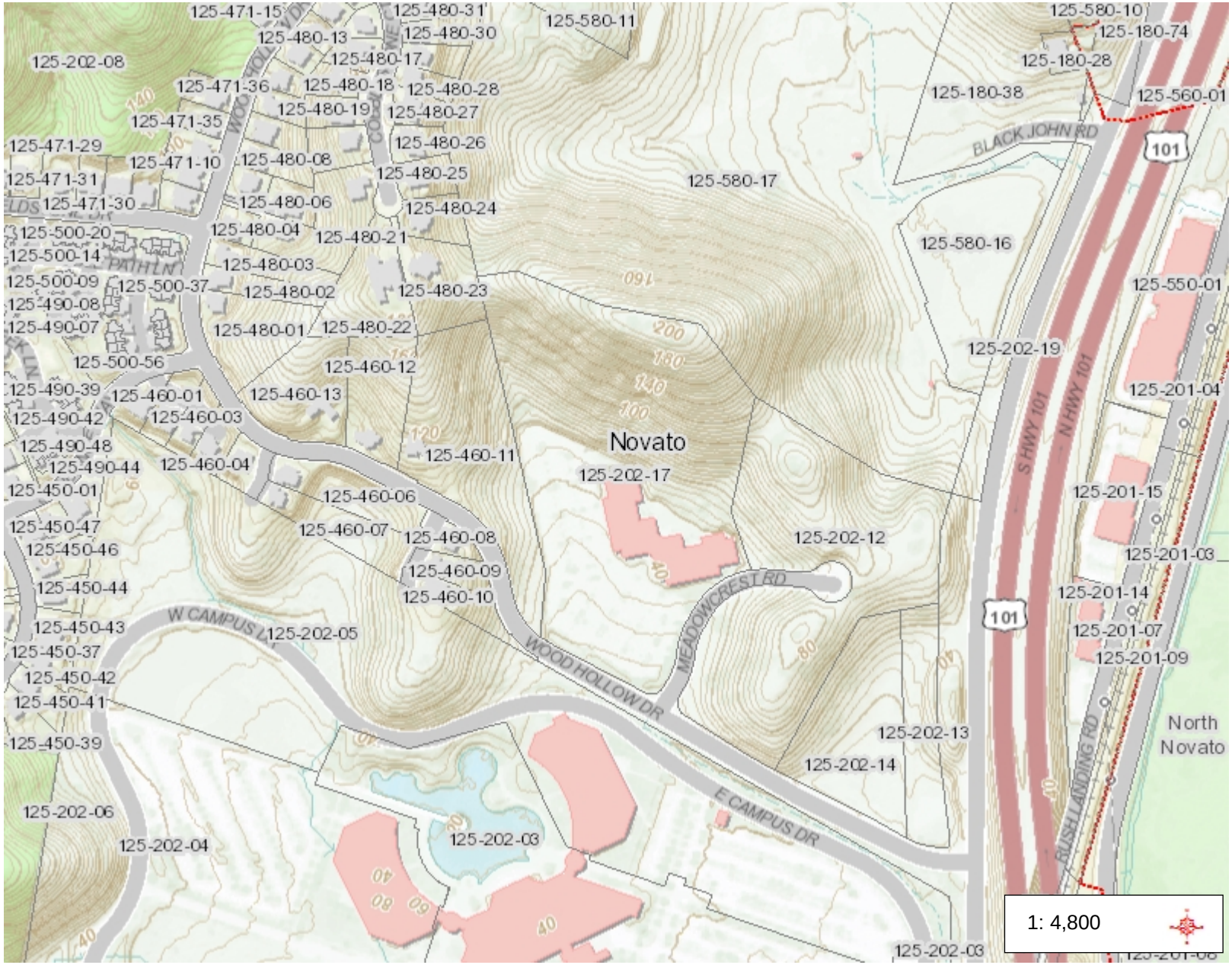
MarinMap Map Viewer
Search...
Navigation
Tasks
Analysis
Home
Pan
Zoom In
Zoom Out
Initial View
Full Extent
Search By Property ID
Search By Address
Point
Home
Navigation
Search Tools
Location Info
Workflow (1)
I want to...
125-202-17 : 100 WOOD HOLLOW DR
Jurisdiction:Novato
LandUse: 51 -Commercial - Improved
Units: 0
Avg Slope:22.05723047
TRA:010-090
Displaying 1 - 1 (Total: 1)
Page 1 of 1
Novato
North Novato
W CAMPUS DR
E CAMPUS DR
WOOD HOLLOW DR
MEADOWCREST RD
BLACK JOHN RD
HILLSTONE DR
101
100m
400ft
Marin Map County of Marin GIS/IST | MarinMap
Appendix C - Aerial ....pdf
S113109231.pdf
Show all downloads...

Marin Map

100 Wood Hollow Drive



1: 4,800

Legend

- Parcel
- Condominium Common Area
- Mobile Home Pad
- City
- Community
- Marin County Legal Boundary
- Other Bay Area County
- Ocean and Bay

Notes

0.2 0 0.08 0.2 Miles

NAD_1983_HARN_StatePlane_California_III_FIPS_0403_Feet

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THIS MAP IS NOT TO BE USED FOR NAVIGATION

Marin Map

Legend

- Parcel
- Marin County Legal Boundary
- Other Bay Area County
- Ocean and Bay

Notes

0.2 0 0.08 0.2 Miles

NAD_1983_HARN_StatePlane_California_III_FIPS_0403_Feet

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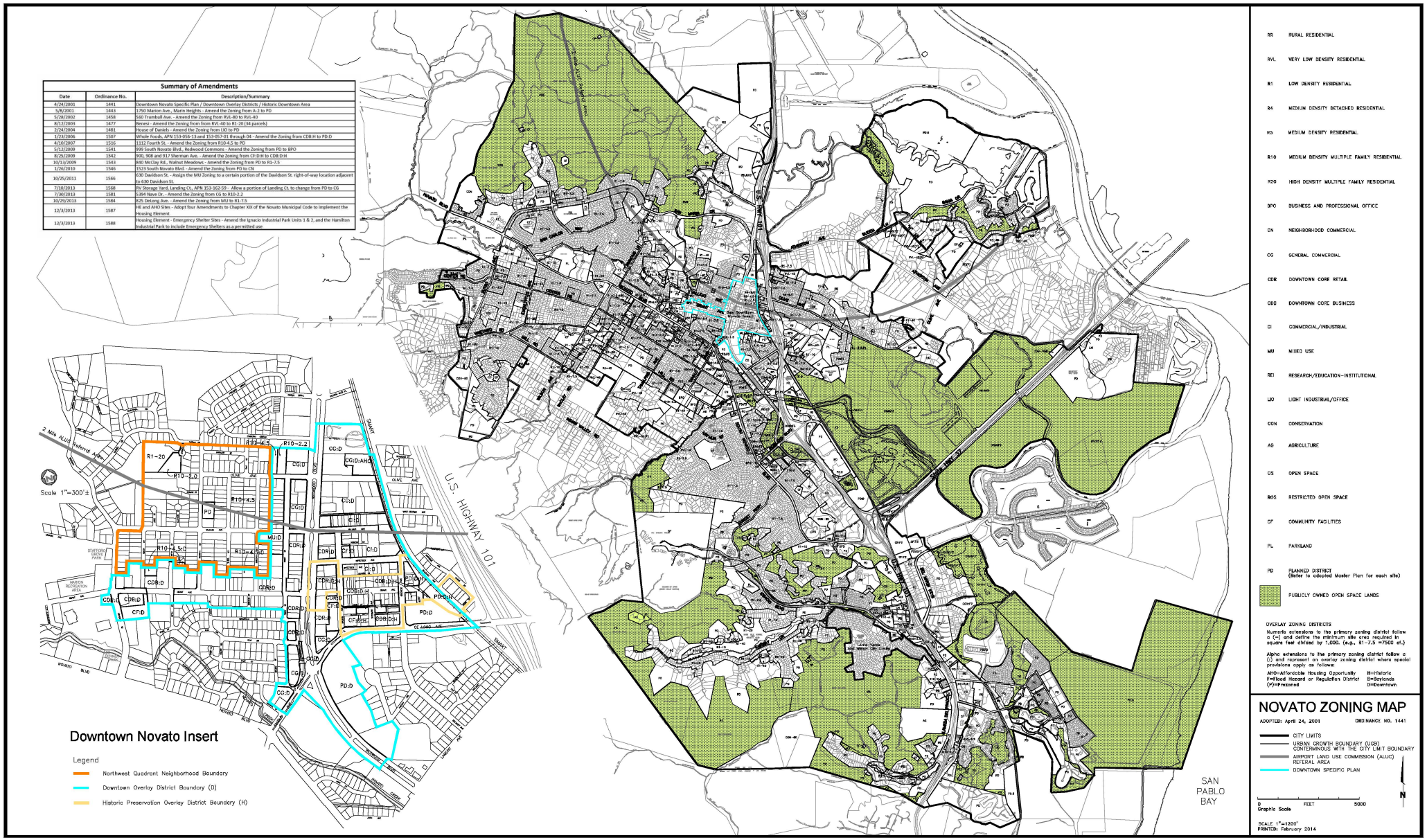


Summary of Amendments

Date	Ordinance No.	Description/Summary
4/24/2001	1441	Downtown Novato Specific Plan / Downtown Overlay Districts / Historic Downtown Area
5/8/2001	1443	1750 Marion Ave., Marin Heights - Amend the Zoning from A-2 to PD
5/28/2002	1458	560 Trumbull Ave. - Amend the Zoning from RVL-80 to RVL-40
8/12/2003	1477	Beness - Amend the Zoning from from RVL-40 to R1-20 (34 parcels)
2/24/2004	1481	House of Daniels - Amend the Zoning from LIO to PD
1/23/2006	1507	Whole Foods, APN 153-056-13 and 153-057-01 through 04 - Amend the Zoning from CDB:H to PD:D
4/10/2007	1516	1112 Fourth St. - Amend the Zoning from R10-4.5 to PD
5/12/2009	1541	999 South Novato Blvd., Redwood Commons - Amend the Zoning from PD to BPO
8/25/2009	1542	900, 908 and 917 Sherman Ave. - Amend the Zoning from CF:D:H to CDB:D:H
10/13/2009	1543	840 McClay Rd., Walnut Meadows - Amend the Zoning from PD to R1-7.5
1/26/2010	1546	1523 South Novato Blvd. - Amend the Zoning from PD to CN
10/25/2011	1566	630 Davidson St. - Assign the MU Zoning to a certain portion of the Davidson St. right-of-way location adjacent to 630 Davidson St.
7/10/2013	1568	RV Storage Yard, Landing Ct., APN 153-162-59 - Allow a portion of Landing Ct. to change from PD to CG
7/30/2013	1581	5394 Nave Dr. - Amend the Zoning from CG to R10-2.2
10/29/2013	1584	825 DeLong Ave. - Amend the Zoning from MU to R1-7.5
12/3/2013	1587	HE and AHO Sites - Adopt four Amendments to Chapter XIX of the Novato Municipal Code to implement the Housing Element
12/3/2013	1588	Housing Element - Emergency Shelter Sites - Amend the Ignacio Industrial Park Units 1 & 2, and the Hamilton Industrial Park to include Emergency Shelters as a permitted use

Novato Valley Basin

- Groundwater Basin Number: 2-30
- County: Marin
- Surface Area: 20,500 acres (32 square miles)

Basin Boundaries and Hydrology

The Novato Valley basin occupies a structural depression in the Coast Ranges immediately west of San Pablo Bay and north of San Raphael. San Antonio Creek bounds the Novato Valley basin to the north and the Mendocino Range forms the western and southern boundary. Streams discharging to San Pablo Bay drain the basin and are tidally influenced in the lower reaches. Annual Precipitation in the basin ranges from less than 28 inches adjacent to the bay to more than 40 inches in the upland areas in the Mendocino Range.

Hydrogeologic Information

Water Bearing Formations

Water occurs principally in alluvial deposits of Pleistocene to Holocene age that unconformably overlie non-water bearing rocks of the Franciscan assemblage (Cardwell 1958). The alluvial deposits are composed of unconsolidated clay, silt, and sand with discontinuous lenses of gravel. The Pleistocene alluvium is exposed only in a small area on the northern side of Novato Valley (Cardwell 1958). The total thickness of the alluvial deposits ranges from 60 feet near the city of Novato to more than 200 feet near San Pablo Bay (DWR 1975). Generally semi-confined conditions prevail in the water bearing formations (Cardwell 1958). Wells in sand and gravel layers 25 feet to 50 feet deep yield an average of 50 gallons per minute (DWR 1975).

Recharge Areas

Natural recharge occurs principally as infiltration from streambeds that exit the upland areas within the drainage basin and from direct percolation of precipitation that falls on the basin floor.

Groundwater Level Trends

No published information was found that would indicate groundwater level trends for the Novato Valley groundwater basin.

Groundwater Storage

Groundwater Storage Capacity. No published information was found addressing the groundwater storage capacity of the Novato Valley groundwater basin.

Groundwater in Storage. No published report was found addressing the quantity of groundwater in storage.

Groundwater Budget (Type C).

Not enough data exists presently to provide either an estimate of the Novato Valley basin's groundwater budget or the groundwater extraction from the basin.

Groundwater Quality

Characterization. Groundwater is typically of the calcium bicarbonate type. Groundwater in the tidal areas of the alluvium is of the sodium chloride type and the total mineral content is greater than in areas more distal to the bay (Cardwell 1958; DWR 1975).

Impairments. Tidal fluctuations in the vicinity of San Pablo Bay can cause intrusion of brackish water into the groundwater reservoir degrading water quality (Cardwell 1958).

Water Quality in Public Supply Wells

Constituent Group[1]	Number of wells sampled[2]	Number of wells with a concentration above an MCL[3]
Inorganics – Primary	2	0
Radiological	1	0
Nitrates	2	0
Pesticides	1	0
VOCs and SVOCs	1	0
Inorganics – Secondary	2	0

[1] A description of each member in the constituent groups and a generalized discussion of the relevance of these groups are included in *California's Groundwater – Bulletin 118* by DWR (2003).
[2] Represents distinct number of wells sampled as required under DHS Title 22 program from 1994 through 2000.
[3] Each well reported with a concentration above an MCL was confirmed with a second detection above an MCL. This information is intended as an indicator of the types of activities that cause contamination in a given basin. It represents the water quality at the sample location. It does not indicate the water quality delivered to the consumer. More detailed drinking water quality information can be obtained from the local water purveyor and its annual Consumer Confidence Report.

Well Production characteristics

	Well yields (gal/min)	
Municipal/Irrigation		Average: 50 (DWR 1975)
Total depths (ft)		
Domestic	Range: 55 - 443	Average: 243 (Based on 7 Wells)
Municipal/Irrigation		

Active Monitoring Data

Agency	Parameter	Number of wells /measurement frequency
	Groundwater levels	
DWR	Miscellaneous water quality	2 Wells
Department of Health Services and cooperators	Title 22 water quality	1 Well

Basin Management

Groundwater management:

Water agencies

Public	North Marin MWD, Marin MWD, Marin County FC & WCD
Private	

References Cited

Cardwell,G.T. Geology and Groundwater in the Santa Rosa and Petaluma Valley Areas, Sonoma County California. US geological Survey Water-Supply Paper 1427. 1958.

California Department of Water Resources. Sea-Water Intrusion in California Inventory of Coastal Ground Water Basins. Bulletin 63-5 October 1975.

Errata

Changes made to the basin description will be noted here.

Soil Map—Marin County, California

Map Scale: 1:2,170 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 30 60 120 180

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N 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: http://websoilsurvey.nrcs.usda.gov
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: Marin County, California
Survey Area Data: Version 9, Sep 25, 2014

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 2, 2010—Feb 17, 2012

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

Marin County, California (CA041)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
113	Clear Lake clay, 0 to 2 percent slopes, MLRA 15	0.2	1.0%
141	Los Osos-Bonnydoon complex, 15 to 30 percent slopes	15.9	99.0%
Totals for Area of Interest		**16.0**	**100.0%**

Marin County, California

113—Clear Lake clay, 0 to 2 percent slopes, MLRA 15

Map Unit Setting

National map unit symbol: 2vbsx
Elevation: 0 to 1,000 feet
Mean annual precipitation: 29 to 41 inches
Mean annual air temperature: 57 to 59 degrees F
Frost-free period: 200 to 300 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Clear lake and similar soils: 90 percent
Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Clear Lake

Setting

Landform: Basin floors
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Basin alluvium derived from metamorphic and sedimentary rock

Typical profile

Ap - 0 to 8 inches: clay
Bss1 - 8 to 28 inches: clay
Bss2 - 28 to 42 inches: clay
C - 42 to 65 inches: clay

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 36 to 72 inches
Frequency of flooding: Rare
Frequency of ponding: Frequent
Calcium carbonate, maximum in profile: 4 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.5 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 2.0
Available water storage in profile: Moderate (about 8.8 inches)

Interpretive groups

Land capability classification (irrigated): 3w
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D
Ecological site: Clayey bottomland (R015XC025CA)

Minor Components

Unnamed, overwash

Percent of map unit: 3 percent
Landform: Basin floors
Landform position (two-dimensional): Backslope

Slopes more than 2 percent

Percent of map unit: 3 percent

Cole

Percent of map unit: 2 percent

Blucher

Percent of map unit: 2 percent
Landform: Drainageways
Landform position (two-dimensional): Backslope

Description — Map Unit Description

Marin County, California

141—Los Osos-Bonnydoon complex, 15 to 30 percent slopes

Map Unit Setting

National map unit symbol: hf2f
Elevation: 50 to 1,500 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 59 to 63 degrees F
Frost-free period: 270 to 320 days
Farmland classification: Not prime farmland

Map Unit Composition

Los osos and similar soils: 60 percent
Bonnydoon and similar soils: 20 percent
Minor components: 17 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Los Osos

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Convex
Parent material: Residuum weathered from sandstone and shale

Typical profile

H1 - 0 to 18 inches: loam
H2 - 18 to 38 inches: clay
H3 - 38 to 42 inches: weathered bedrock

Properties and qualities

Slope: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Natural drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Ecological site: Fine loamy claypan (R015XC032CA)

Description of Bonnydoon

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Concave

Parent material: Residuum weathered from shale, or sandstone

Typical profile

H1 - 0 to 15 inches: gravelly loam
H2 - 15 to 19 inches: weathered bedrock

Properties and qualities

Slope: 15 to 30 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
Natural drainage class: Somewhat excessively drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: D
Ecological site: Shallow gravelly loam (R015XC037CA)

Minor Components

Unnamed, deep

Percent of map unit: 2 percent

Unnamed, shallow

Percent of map unit: 2 percent

Unnamed, gravelly

Percent of map unit: 2 percent

Slopes less than 15 percent

Percent of map unit: 2 percent

Yorkville

Percent of map unit: 2 percent

Tocaloma

Percent of map unit: 2 percent

Saurin

Percent of map unit: 2 percent

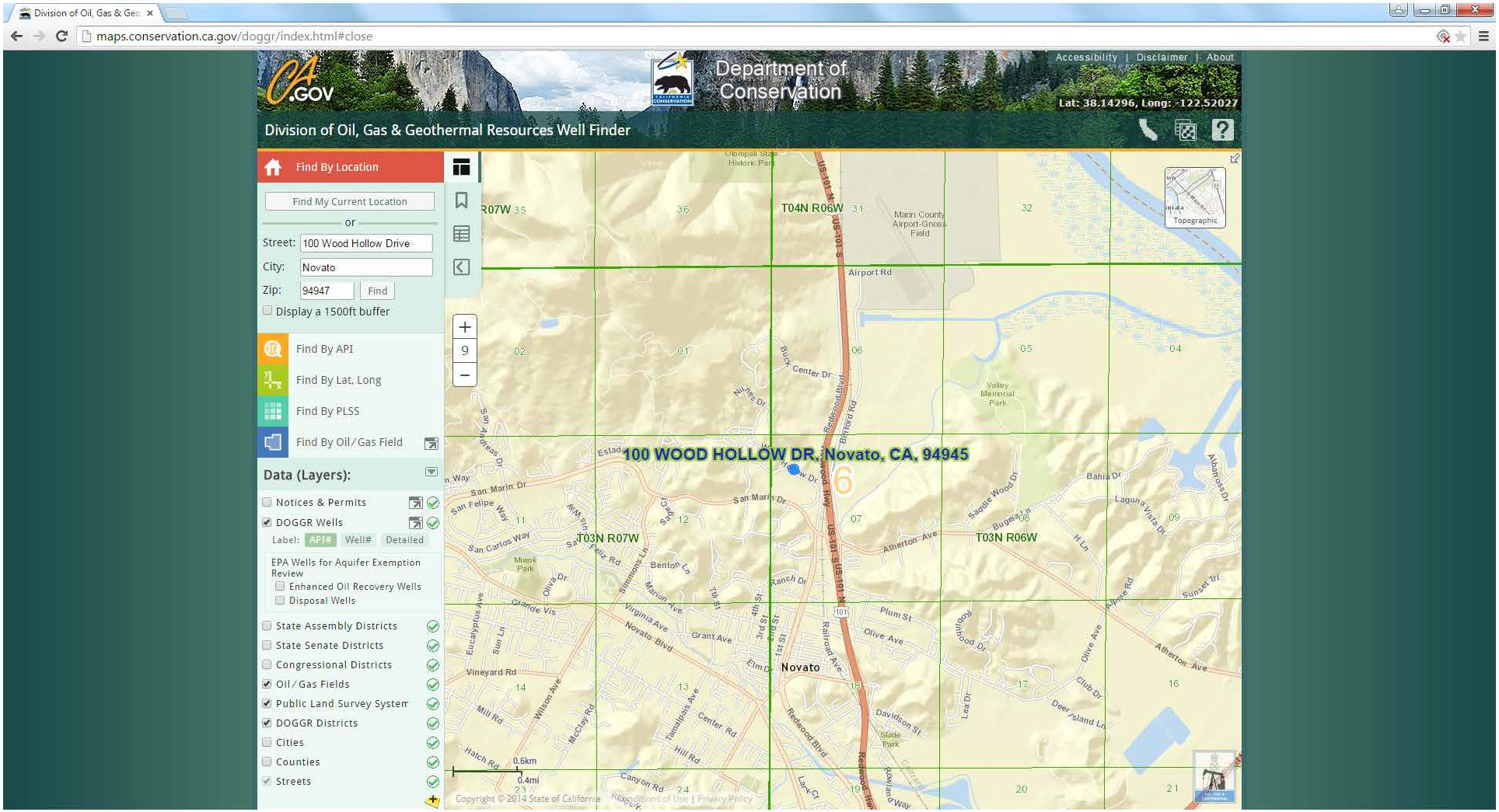
Slumps

Percent of map unit: 2 percent

Unnamed

Percent of map unit: 1 percent
Landform: Depressions

Description — Map Unit Description


Division of Oil, Gas & Geo
maps.conservation.ca.gov/doggr/index.html#close
Department of Conservation
Accessibility | Disclaimer | About
Lat: 38.14296, Long: -122.52027
Division of Oil, Gas & Geothermal Resources Well Finder
Find By Location
Find My Current Location
or
Street: 100 Wood Hollow Drive
City: Novato
Zip: 94947
Find
Display a 1500ft buffer
Find By API
Find By Lat, Long
Find By PLSS
Find By Oil/Gas Field
Data (Layers):
Notices & Permits
DOGGR Wells
Label: API# Well# Detailed
EPA Wells for Aquifer Exemption Review
Enhanced Oil Recovery Wells
Disposal Wells
State Assembly Districts
State Senate Districts
Congressional Districts
Oil/Gas Fields
Public Land Survey System
DOGGR Districts
Cities
Counties
Streets
100 WOOD HOLLOW DR, Novato, CA, 94945
T04N R06W
T03N R07W
T03N R06W
Novato
Topographic
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Pipeline and Hazardous Materials Safety Administration

NATIONAL PIPELINE MAPPING SYSTEM

Legend

- Gas Transmission Pipelines
- Hazardous Liquid Pipelines

0 0.3 Miles

Pipelines depicted on this map represent gas transmission and hazardous liquid lines only. Gas gathering and gas distribution systems are not represented.

This map should never be used as a substitute for contacting a one-call center prior to excavation activities. Please call 811 before any digging occurs.

Questions regarding this map or its contents can be directed to npms-nr@mbakercorp.com.

Projection: Geographic

Datum: NAD83

Map produced by the NPMS Public Viewer at www.npms.phmsa.dot.gov

Date Printed: May 27, 2015

811 Know what's below. Call before you dig.

```
Plant number ........... 21894   E1894
Business name .......... Lexington Lion Wood Hollow LP
Location address ....... 100 Wood Hollow
   City ................ Novato, CA  94945
   Telephone ........... 415-734-9115
Mailing address ........ 350 Rhode-Islnd Nrth, Ste 130
   City ................ San Francisco, CA  94103
SIC ................... 6512
NAICS .................. 531120
Contact ................ Yvonne Fisher, Property Manager
   Address ............. 350 Rhode-Islnd Nrth, Ste 130
   City ................ San Francisco, CA  94103
   Telephone ........... (415) 734-9115
   e-mail .............. yfisher@cacremco.com
Permit engineer ........ Sheryl L Wallace (438)
Renewal period, months . 24
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Sources by Type

```
Abatement devices ...... 0
Fuel combustion ........ 1
General source ......... 0
Loading/handling ....... 0
Surface coaters ........ 0
Organic solvent ........ 0
Tankage ................ 0

Total sources .......... 1
```

```
           Plant #: 21894
      Company name: Lexington Lion Wood Hollow LP
          Location: 100 Wood Hollow, Novato, CA  94945


     Application #: 25343
     Project title: New Facility/Emergency Generator
          Engineer: Sheryl L Wallace [438 ]
          Received: 04/15/13
 Final disposition: Waived A/C, 06/11/13
```

PERMIT NO: 02006-0463 ON-LINE PERMIT

CITY OF NOVATO
Community Development Department
922 Machin Avenue, Novato CA 94945
Office:(415)899-8989

INSPECTION REQUEST LINE
(415) 899-8240
OR SCHEDULE EXISTING INSPECTION ON-LINE
www.novato.org

PERMIT TYPE **CONSTRUCTION**	APPLIED DATE **4/4/2002**
PERMIT SUB-TYPE **COMMERCIAL**	APPROVED DATE **4/2/2002**
JOB VALUE **2300**	ISSUED DATE **4/9/2002**
APN **125-202-17**	

DESCRIPTION
CONVERTED: INSTALLATION OF 30 FT FLAGPOLE IN FRONT OF ENTRY

THE CITY OF NOVATO CALIFORNIA

PERMIT INFORMATION

SITE 100 WOOD HOLLOW DRIVE NOVATO, CA 94945

APPLICANT

OWNER

CONTRACTOR

FEE SUMMARY

PLAN STORAGE	$6.90
PERMIT AUTOMATION SURCHARGE	$8.70
GENERAL PLAN SURCHARGE	$8.70
OSS -- BUILDING PLAN CHECK	$15.00
BUILDING PERMIT	$87.00
SEISMIC FOR COMMERCIAL	$0.50
OSS -- PLANNING PLAN CHECK	$21.00
Total Fees Collected:	$147.80

NOTE: This job copy of this permit shall be kept on the job site. The permit will expire if work is not started in 180 days, is abandoned, or does not receive an inspection for more than 180 days. Additional fees will be collected to renew expired permits. Authorized Construction Hours: Monday – Friday: 7:00 AM – 6:00 PM; Saturdays: 10:00 AM – 5:00 PM; No Construction on Sundays or Official Federal Holidays.

LICENSED CONTRACTORS DECLARATION

I hereby affirm under penalty of perjury 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.
License No: Expiration Date: Contractor:

OWNER-BUILDER DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the contractors 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 or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Pofessions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an 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 Contractors License Law does not apply to an owner or property who builds or improves thereon, and who does such work himself or herself or through his or her 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 burdon of proving that he or she 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 Contractors License Law does not apply to an owner or Property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.)
I am exempt under Sec. _____ B.P.C. for this reason _____
DATE _____ OWNER _____

WORKERS COMPENSATION DECLARATION

I hereby affirm under penalty of perjury one of the following declarations:
_____ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the permit is ussued.

_____ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:
Carrier/Policy No: Label
(This section need not be completed if the permit 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 number so as to become subject to the workers' compensation laws or California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.
DATE _____ APPLICANT: _____
WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

WASTE MANAGEMENT PLAN FOR CONSTRUCTION

The building component being replaced shall be recycled or reused in accordance with Novato Municipal Code Section 4-12.

PERMIT NO: 02012-0058 ON-LINE PERMIT

CITY OF NOVATO
Community Development Department
922 Machin Avenue, Novato CA 94945
Office:(415)899-8989

INSPECTION REQUEST LINE
(415) 899-8240
OR SCHEDULE EXISTING INSPECTION ON-LINE
www.novato.org

PERMIT TYPE **MECHANICAL**	APPLIED DATE **3/21/2002**
PERMIT SUB-TYPE	APPROVED DATE
JOB VALUE **6432**	ISSUED DATE **3/21/2002**
APN	

DESCRIPTION
CONVERTED: INSTALL DUCTLESS SPLIT SYSTEM TO SERVE COMPUTER R

THE CITY OF NOVATO CALIFORNIA

PERMIT INFORMATION

SITE	100 WOOD HOLLOW DRIVE , CA
APPLICANT	
OWNER	
CONTRACTOR	GREEN POINT MORTGAGE

FEE SUMMARY

GENERAL PLAN SURCHARGE	$14.30
PERMIT AUTOMATION SURCHARGE	$14.30
PLAN STORAGE	$3.90
MECHANICAL PERMIT (VALUATION)	$143.00
Total Fees Collected:	$175.50

NOTE: This job copy of this permit shall be kept on the job site. The permit will expire if work is not started in 180 days, is abandoned, or does not receive an inspection for more than 180 days. Additional fees will be collected to renew expired permits. Authorized Construction Hours: Monday – Friday: 7:00 AM – 6:00 PM; Saturdays: 10:00 AM – 5:00 PM; No Construction on Sundays or Official Federal Holidays.

LICENSED CONTRACTORS DECLARATION

I hereby affirm under penalty of perjury 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.
License No: Expiration Date: Contractor: GREEN POINT MORTGAGE

OWNER-BUILDER DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the contractors 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 or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Pofessions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an 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 Contractors License Law does not apply to an owner or property who builds or improves thereon, and who does such work himself or herself or through his or her 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 burdon of proving that he or she 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 Contractors License Law does not apply to an owner or Property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.)
I am exempt under Sec. _____ B.P.C. for this reason _____
DATE _____ OWNER _____

WORKERS COMPENSATION DECLARATION

I hereby affirm under penalty of perjury one of the following declarations:
_____ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the permit is ussued.

_____ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:
Carrier/Policy No: Label
(This section need not be completed if the permit 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 number so as to become subject to the workers' compensation laws or California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.
DATE _____ APPLICANT: _____
WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

WASTE MANAGEMENT PLAN FOR CONSTRUCTION

The building component being replaced shall be recycled or reused in accordance with Novato Municipal Code Section 4-12.

PERMIT NO: B-TI2005-17 ON-LINE PERMIT

CITY OF NOVATO
Community Development Department
922 Machin Avenue, Novato CA 94945
Office:(415)899-8989

INSPECTION REQUEST LINE
(415) 899-8240
OR SCHEDULE EXISTING INSPECTION ON-LINE
www.novato.org

PERMIT TYPE **TENANT IMPROVEMENT**	APPLIED DATE **3/31/2005**
PERMIT SUB-TYPE **COMMERCIAL**	APPROVED DATE **4/4/2005**
JOB VALUE **61000**	ISSUED DATE **4/5/2005**
APN **125-202-17**	

DESCRIPTION
CONVERTED: Electric for server racks - relocation and reconn

THE CITY OF NOVATO CALIFORNIA

PERMIT INFORMATION

SITE	100 WOOD HOLLOW DRIVE NOVATO, CA 94945
APPLICANT	
OWNER	
CONTRACTOR	W. BRADLEY ELECTRIC 90 HILL RD. NOVATO CA 94945

FEE SUMMARY

PERMIT AUTOMATION SURCHARGE	$55.75
1% ADMINISTRATIVE TRAINING FEE	$7.41
ELECTRICAL, PLUMBING, MECHANIC	$741.00
GENERAL PLAN SURCHARGE	$74.10
PLAN STORAGE FEES	$11.10
APPLICATION REVIEW DEPOSIT	$500.00
BLDG PLAN CK FEES - DEP PLN CH	$481.65
PERMIT AUTOMATION SURCHARGE	$18.35
Total Fees Collected:	$1,389.36

NOTE: This job copy of this permit shall be kept on the job site. The permit will expire if work is not started in 180 days, is abandoned, or does not receive an inspection for more than 180 days. Additional fees will be collected to renew expired permits. Authorized Construction Hours: Monday – Friday: 7:00 AM – 6:00 PM; Saturdays: 10:00 AM – 5:00 PM; No Construction on Sundays or Official Federal Holidays.

LICENSED CONTRACTORS DECLARATION

I hereby affirm under penalty of perjury 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.
License No: Expiration Date: Contractor: W. BRADLEY ELECTRIC

OWNER-BUILDER DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the contractors 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 or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Pofessions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an 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 Contractors License Law does not apply to an owner or property who builds or improves thereon, and who does such work himself or herself or through his or her 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 burdon of proving that he or she 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 Contractors License Law does not apply to an owner or Property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.)
I am exempt under Sec. _____ B.P.C. for this reason _____
DATE _____ OWNER _____

WORKERS COMPENSATION DECLARATION

I hereby affirm under penalty of perjury one of the following declarations:
_____ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the permit is ussued.

_____ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:
Carrier/Policy No: Label
(This section need not be completed if the permit 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 number so as to become subject to the workers' compensation laws or California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.
DATE _____ APPLICANT: _____
WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

WASTE MANAGEMENT PLAN FOR CONSTRUCTION

The building component being replaced shall be recycled or reused in accordance with Novato Municipal Code Section 4-12.

PERMIT NO: B-TI2007-4 ON-LINE PERMIT

CITY OF NOVATO
Community Development Department
922 Machin Avenue, Novato CA 94945
Office:(415)899-8989

INSPECTION REQUEST LINE
(415) 899-8240
OR SCHEDULE EXISTING INSPECTION ON-LINE
www.novato.org

PERMIT TYPE **TENANT IMPROVEMENT**	APPLIED DATE **2/1/2007**
PERMIT SUB-TYPE **COMMERCIAL**	APPROVED DATE **2/2/2007**
JOB VALUE **200000**	ISSUED DATE **2/7/2007**
APN **125-202-17**	

DESCRIPTION
CONVERTED: Tenant Improvements - Minor improvements to first

THE CITY OF NOVATO CALIFORNIA

PERMIT INFORMATION

SITE 100 WOOD HOLLOW DRIVE
NOVATO, CA 94945

APPLICANT

OWNER

CONTRACTOR NOVO CONSTRUCTION
608 FOLSOM ST.
SAN FRANCISCO CA 94107

FEE SUMMARY

PERMIT AUTOMATION SURCHARGE	$203.08
BUILDING PERMIT	$108.97
SEISMIC	$42.00
GENERAL PLAN SURCHARGE	$203.08
BLDG PLAN CK FEES - DEP PLN CH	$1,010.10
1% ADMINISTRATIVE TRAINING FEE	$20.31
ELECTRICAL, PLUMBING, MECHANIC	$73.00
ELECTRICAL, PLUMBING, MECHANIC	$129.00
PLAN STORAGE FEES	$37.30
APPLICATION REVIEW DEPOSIT	$2,000.00
PLAN PLAN CK F/BLDG "IN-HOUSE	$77.09
ELECTRICAL, PLUMBING, MECHANIC	$532.40
BUILDING PERMIT	$1,187.43
Total Fees Collected:	$3,623.76

NOTE: This job copy of this permit shall be kept on the job site. The permit will expire if work is not started in 180 days, is abandoned, or does not receive an inspection for more than 180 days. Additional fees will be collected to renew expired permits. Authorized Construction Hours: Monday – Friday: 7:00 AM – 6:00 PM; Saturdays: 10:00 AM – 5:00 PM; No Construction on Sundays or Official Federal Holidays.

LICENSED CONTRACTORS DECLARATION

I hereby affirm under penalty of perjury 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.
License No: Expiration Date: Contractor: NOVO CONSTRUCTION

OWNER-BUILDER DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the contractors 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 or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Pofessions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an 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 Contractors License Law does not apply to an owner or property who builds or improves thereon, and who does such work himself or herself or through his or her 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 burdon of proving that he or she 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 Contractors License Law does not apply to an owner or Property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.)
I am exempt under Sec. _____ B.P.C. for this reason _____
DATE _____ OWNER _____

WORKERS COMPENSATION DECLARATION

I hereby affirm under penalty of perjury one of the following declarations:
_____ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the permit is ussued.

_____ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:
Carrier/Policy No: Label
(This section need not be completed if the permit 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 number so as to become subject to the workers' compensation laws or California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.
DATE _____ APPLICANT: _____
WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

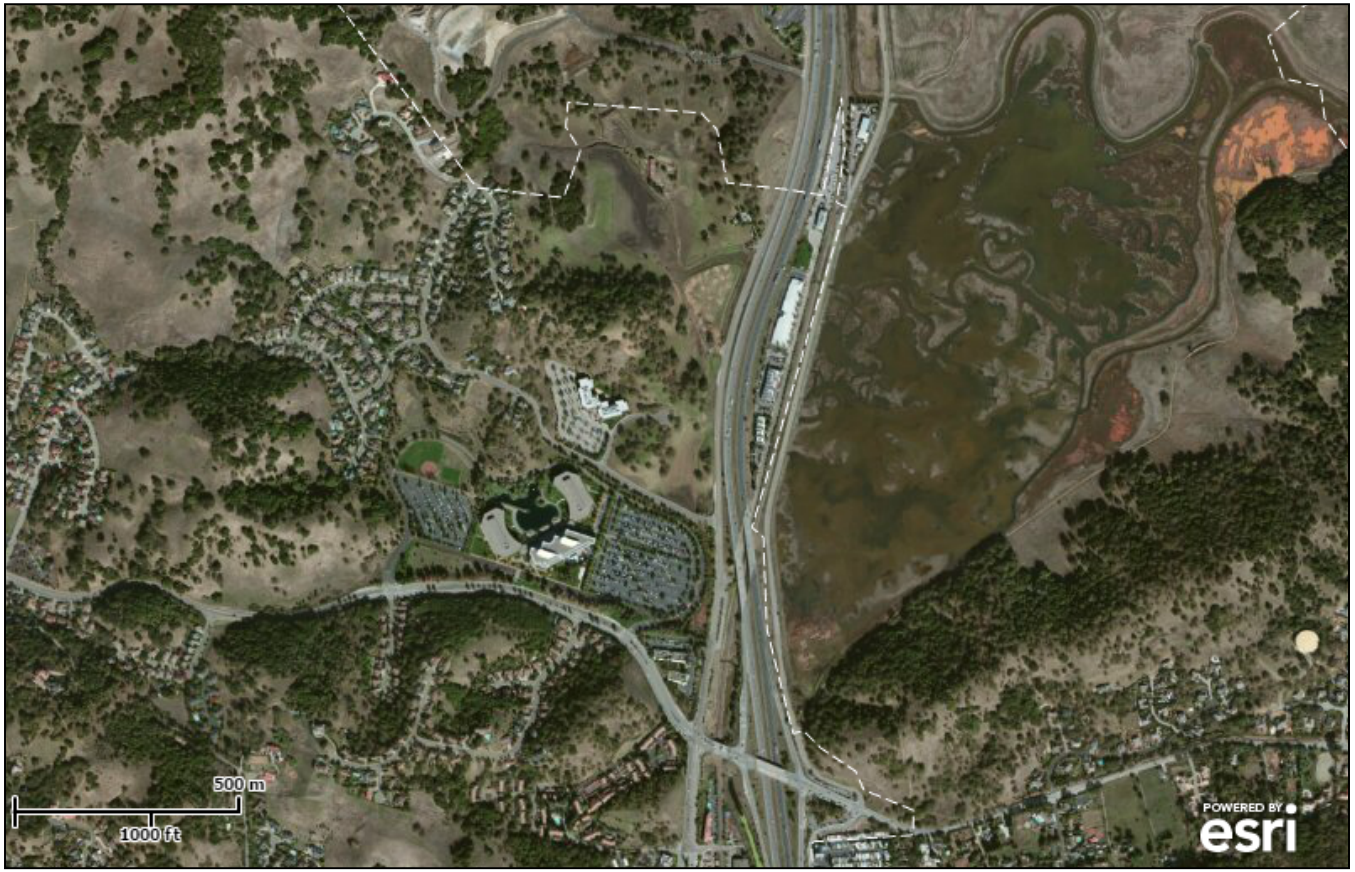
WASTE MANAGEMENT PLAN FOR CONSTRUCTION

U.S. Fish and Wildlife Service

National Wetlands Inventory

100 Wood Hollow Drive - Wetlands

May 27, 2015



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Riparian

- Herbaceous
- Forested/Shrub

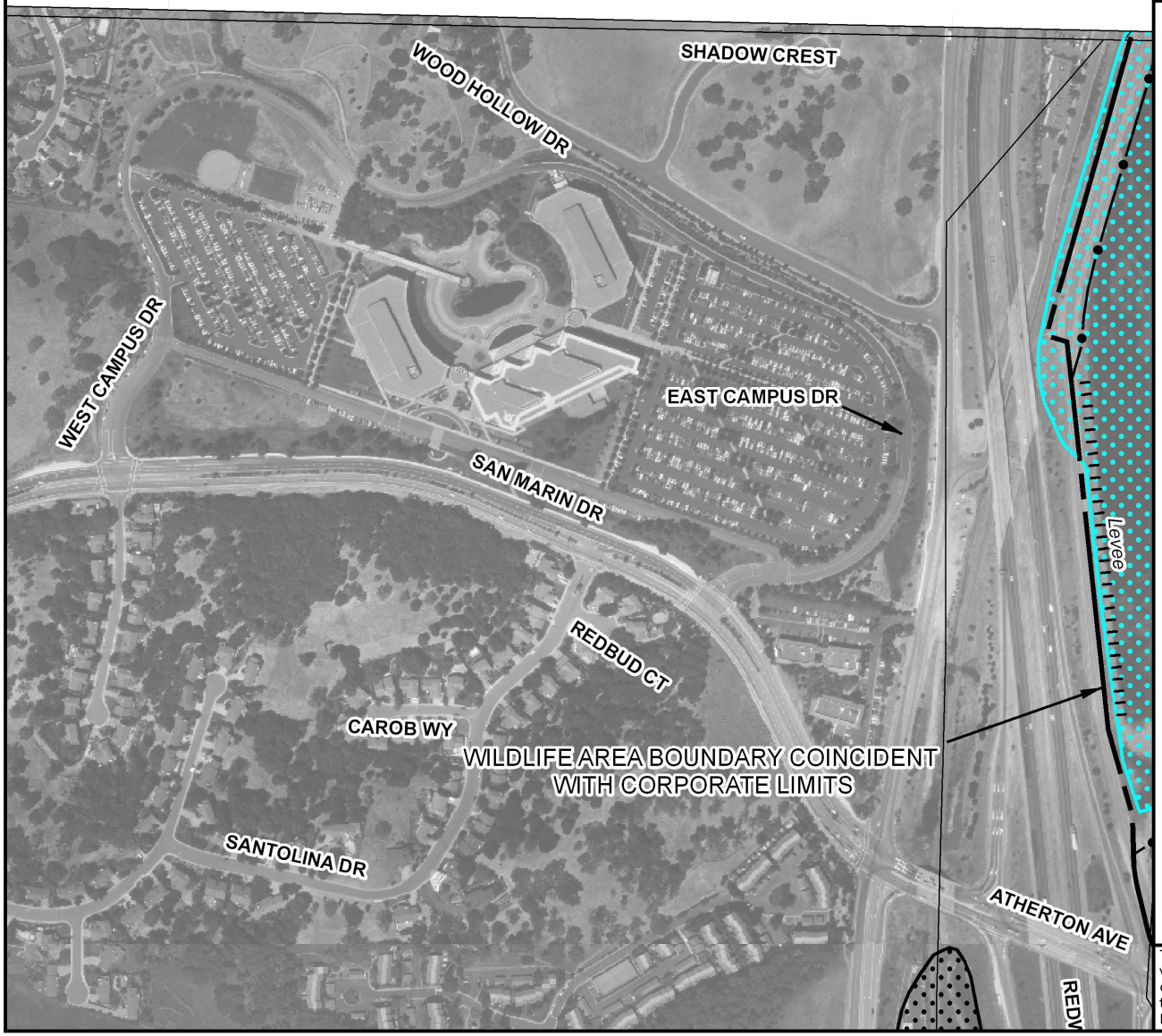
Riparian Status

- Digital Data

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

5965000 FT



MAP SCALE 1" = 500'

250 0 500 1000 FEET

METER

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0277D

FIRM

FLOOD INSURANCE RATE MAP

MARIN COUNTY, CALIFORNIA
AND INCORPORATED AREAS

PANEL 277 OF 531

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MARIN COUNTY	060173	0277	D
NOVATO, CITY OF	060178	0277	D

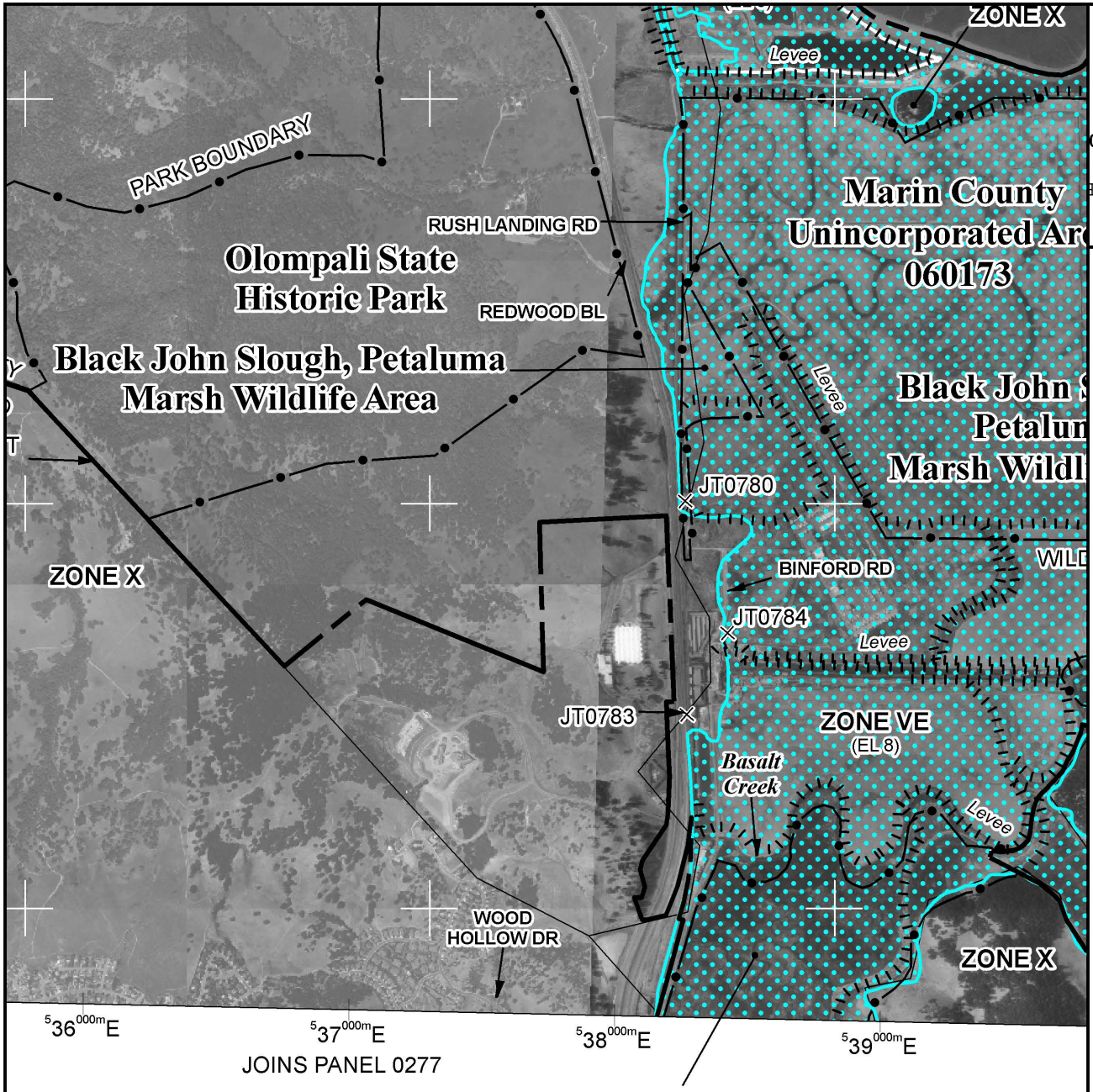
Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
06041C0277D

EFFECTIVE DATE
MAY 4, 2009

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



Rush Creek, Petaluma
Marsh Wildlife Area

MAP SCALE 1" = 2000'

000 0 2000 4000 FEET

METER

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0175D

FIRM

FLOOD INSURANCE RATE MAP

MARIN COUNTY,
CALIFORNIA
AND INCORPORATED AREAS

PANEL 175 OF 531

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MARIN COUNTY	060173	0175	D
NOVATO, CITY OF	060178	0175	D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
06041C0175D

EFFECTIVE DATE
MAY 4, 2009

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

DATE: 5-25-2015

TANYA MACLEAN

TETRA TECH

17885 VON KARMAN AVENUE, SUITE 500

IRVINE, CALIFORNIA 92614

100 WOOD HOLLOW DRIVE

TEXAS ENVIRONMENTAL RESEARCH

126 SCEPTRE DRIVE
ROCKWALL, TEXAS 75032

TEL: (972) 772-4283
FAX: (972) 772-4283

ENVIRONMENTAL LIEN AND OTHER ACTIVITY USE LIMITATIONS (AUL) SEARCH

THE ATTACHED REPORT IS BEING PROVIDED TO APPLICANT SOLELY FOR THE PURPOSE OF FACILITATING LANDOWNER OR PURCHASE DEFENSES WHICH MAY BE AVAILABLE UNDER THE LIABILITY ACT OF 1980, AS AMENDED. IT IS PROVIDED FOR THE SOLE USE AND BENEFIT OF APPLICANT AND MAY NOT BE USED OR RELIED UPON BY ANY OTHER PARTY FOR ANY REASON.

NOTE: THIS SEARCH REPRESENTS SURFACE CONVEYANCES ONLY. TOTAL LIABILITY OF TEXAS ENVIRONMENTAL RESEARCH COMPANY IS LIMITED TO THE AMOUNT PAID FOR THIS REPORT.

THIS REPORT WAS PREPARED FOR THE PURPOSE OF ASSISTING IN AN ENVIRONMENTAL HAZARD INSPECTION OF THE FOLLOWING DESCRIBED PROPERTY.

LEGAL DESCRIPTION: PARCEL: 125-202-17, 100 WOOD HOLLOW DRIVE, MARIN COUNTY, NOVATO, CALIFORNIA.

CURRENT OWNER: LEXINGTON WOOD HOLLOW.

DATE : SEPTEMBER 16, 2003

INSTRUMENT: WARRANTY DEED

GRANTOR : WOOD HOLLOW L.L.C.

GRANTEE : LEXINGTON WOOD HOLLOW

FILE NO. : 20030114768

DATE : JUNE 9, 2000

INSTRUMENT: WARRANTY DEED

GRANTOR : GATEWAY FINANCIAL CORPORATION

GRANTEE : WOOD HOLLOW L.L.C.

FILE NO. : 20000029891

DATE : DECEMBER 29, 1998

INSTRUMENT: WARRANTY DEED

GRANTOR : SAN MARIN BUSINESS PARK L.L.C.

GRANTEE : GATEWAY FINANCIAL CORPORATION

FILE NO. : 19980049947

DATE : OCTOBER 7, 1986

INSTRUMENT: WARRANTY DEED

GRANTOR : PATRICIA WEBB ESTATE

GRANTEE : SAN MARIN BUSINESS PARK L.L.C.

FILE NO. : 004193

DATE : AUGUST 3, 1974

INSTRUMENT: WARRANTY DEED

GRANTOR : DANIEL M. WEBB

GRANTEE : PATRICIA WEBB

FILE NO. : 257316

DATE : MAY 20, 1961

INSTRUMENT: WARRANTY DEED

GRANTOR : EDWIN F. HORWITZ

GRANTEE : DANIEL M. WEBB

FILE NO. : 814964

DATE : MARCH 17, 1952

INSTRUMENT: WARRANTY DEED

GRANTOR : ROBERT B. NOBLE

GRANTEE : EDWIN F. HORWITZ

FILE NO. : 738129

DATE : FEBRUARY 17, 1945

INSTRUMENT: WARRANTY DEED

GRANTOR : LESTER K. SWINSON AND SPOUSE, GERTRUDE SWINSON

GRANTEE : ROBERT B. NOBLE

FILE NO. : 387615

DATE : SEPTEMBER 2, 1939

INSTRUMENT: WARRANTY DEED

GRANTOR : HENRY D. HUEBNER AND SPOUSE, RUTH HUEBNER

GRANTEE : LESTER K. SWINSON AND SPOUSE, GERTRUDE SWINSON

FILE NO. : 261453

EASEMENTS : UTILITY EASEMENT.

ENVIRONMENTAL LIEN AND AUL SEARCH

AFTER COMPLETING AN ENVIRONMENTAL LIEN AND OTHER ACTIVITY AND USE LIMITATION SEARCH A FINDING THAT NO ENVIRONMENTAL LIENS OR AUL'S HAVE BEEN FILED OF PUBLIC RECORD AND THAT IT HAS BEEN DETERMINED THAT THE PROPERTY RESEARCHED IN THIS REPORT COMPLIES WITH ASTM E 1527-13-SEC. 8.3.4.4 AND SECTION 6.2

THIS REPORT MEETS OR EXCEEDS A.S.T.M. E 1527-13.

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

RECEIVED JUN 9 1995 WASTE MANAGEMENT

EMERGENCY ☐ YES ☑ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☑ NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.
SIGNED: Tim Underwood DATE:

REPORT DATE: 04 20 95 CASE #:

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: Mark Reano
PHONE: (707) 575 9018
SIGNATURE: Mark R

REPRESENTING ☐ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☑ OTHER Contractor M.R.L.
COMPANY OR AGENCY NAME: M.R.L.

ADDRESS: P.O. Box 6021 STREET CITY Santa Rosa STATE CA ZIP 95406

RESPONSIBLE PARTY

NAME: Firemans Fund Insurance ☐ UNKNOWN
CONTACT PERSON: Ray Jackson
PHONE: (707) 899 3828

ADDRESS: 777 San Marin Dr STREET CITY Novato STATE CA ZIP 94998

SITE LOCATION

FACILITY NAME (IF APPLICABLE): Same
OPERATOR:
PHONE: ( )

ADDRESS: Same STREET CITY COUNTY ZIP

CROSS STREET: Hwy 101

IMPLEMENTING AGENCIES

LOCAL AGENCY / AGENCY NAME: Marin County Solid Waste
CONTACT PERSON: Tim Underwood
PHONE: (415) 499 6647

REGIONAL BOARD: S.F Regional Water Quality
CONTACT PERSON: John Jang
PHONE: ( )

SUBSTANCES INVOLVED

(1) NAME: gasoline + waste oil
QUANTITY LOST (GALLONS): ☑ UNKNOWN

(2) ☐ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: 05 02 95
HOW DISCOVERED: ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☑ TANK REMOVAL ☐ OTHER undiscovered as yet

DATE DISCHARGE BEGAN: M M D D Y Y ☑ UNKNOWN

HAS DISCHARGE BEEN STOPPED? ☑ YES ☐ NO IF YES, DATE M M D D Y Y

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☐ CLOSE TANK & REMOVE ☐ REPAIR PIPING ☐ REPAIR TANK ☐ CLOSE TANK & FILL IN PLACE ☐ CHANGE PROCEDURE ☐ REPLACE TANK ☐ OTHER remove tank

SOURCE/CAUSE

SOURCE OF DISCHARGE: ☐ TANK LEAK ☑ UNKNOWN ☐ PIPING LEAK ☐ OTHER

CAUSE(S): ☑ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL ☐ CORROSION ☐ UNKNOWN ☐ OTHER

CASE TYPE

CHECK ONE ONLY: ☐ UNDETERMINED ☐ SOIL ONLY ☑ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS

CHECK ONE ONLY: ☐ NO ACTION TAKEN ☐ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED ☐ POLLUTION CHARACTERIZATION ☐ LEAK BEING CONFIRMED ☐ PRELIMINARY SITE ASSESSMENT UNDERWAY ☐ POST CLEANUP MONITORING IN PROGRESS ☐ REMEDIATION PLAN ☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) ☒ CLEANUP UNDERWAY

REMEDIAL ACTION

CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS): ☑ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT) ☐ CAP SITE (CD) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS) ☐ CONTAINMENT BARRIER (CB) ☐ NO ACTION REQUIRED (NA) ☐ TREATMENT AT HOOKUP (HU) ☐ VENT SOIL (VS) ☐ VACUUM EXTRACT (VE) ☐ OTHER (OT)

COMMENTS

RECEIVED

FEB 0 8 1996

WASTE MANAGEMENT

File

TRANSMITTAL

To: Mr. Tim Underwood
Marin County Environmental Health Services
Waste Management Group
10 North San Pedro Road, Suite 1022
San Rafael, California 94903

From: Jeffrey F. Ludlow JFL

Date: February 7, 1996

Subject: Quarterly Groundwater Monitoring Report
Fireman's Fund Insurance Company
777 San Marin Drive, Novato, California

Project Number: 32323 003

On behalf of Fireman's Fund Insurance Company, Harding Lawson Associates is pleased to present one copy of our report entitled *Quarterly Groundwater Monitoring, Former Gasoline and Existing Diesel Underground Storage Tanks, 777 San Marin Drive, Novato, California*, dated February 7, 1996. This report summarizes groundwater monitoring activities in January 1996 around former gasoline underground storage tanks (UST) and an existing diesel UST.

If you have any questions regarding results of this work, please call me at (415) 884-3178.

JFL:cso/CSO44393.doc-geo

Enclosure

cc: Mr. Raymond F. Jackson, Fireman's Fund Insurance Company

Harding Lawson Associates
Engineering and Environmental Services
105 Digital Drive, P.O. Box 6107
Novato, CA 94948 — (415) 883-0112

Harding Lawson Associates

February 7, 1996

32323 003

RECEIVED
FEB 0 8 1996
WASTE MANAGEMENT

Mr. Raymond F. Jackson
Fireman's Fund Insurance Company
777 San Marin Drive
Novato, California 94998

Quarterly Groundwater Monitoring
Former Gasoline and Existing Diesel Underground Storage Tanks
777 San Marin Drive
Novato, California

Dear Mr. Jackson:

Harding Lawson Associates (HLA) is pleased to present this report for quarterly groundwater monitoring for January 1996 at Fireman's Fund Insurance Company (Fireman's Fund) facility at 777 San Marin Drive in Novato, California (Plate 1). The quarterly groundwater monitoring is being performed to assess seasonal variations of groundwater conditions beneath the site related to the former gasoline and existing diesel underground storage tanks (USTs) at the loading dock. Since petroleum hydrocarbons were detected in groundwater samples collected from four monitoring wells at the site in July 1995, HLA recommended that three additional rounds of groundwater monitoring be performed (*HLA, 1995*). After monitoring groundwater conditions at the site for one year, HLA will provide recommendation for case closure, continued monitoring, or remediation.

EXECUTIVE SUMMARY

On January 6, 1996, groundwater samples were collected from the four wells on site and analyzed for gasoline and diesel hydrocarbons, microorganisms, nutrients, and dissolved oxygen. Results of these analyses indicate that petroleum hydrocarbons are present in groundwater adjacent the former gasoline UST. These results also indicate that the hydrocarbons are being degraded passively by bioremediation.

The State of California recently published an evaluation of the current Leaking UST Program and recommended utilizing passive bioremediation at sites where the hydrocarbons do not pose a significant threat to human health or the environment. HLA believes that the hydrocarbons detected at the site do not pose a significant threat to human health or the environment because no water wells are known to exist downgradient from the site. Passive bioremediation should degrade the hydrocarbons in groundwater, thus limiting migration of the hydrocarbon plume. The next quarterly groundwater monitoring event is scheduled for April 1996.

MONITORING PROCEDURES

Groundwater Monitoring

On January 6, 1996, groundwater samples were collected from Monitoring Wells MW-1 through MW-4 (Plate 2). Sampling equipment was steam cleaned at HLA, wrapped in plastic, and transported to the site prior to sampling. Before sampling began, the water level in each well was measured using an electric water level indicator, and the potential presence of floating product was evaluated using a clear Lucite™ bailer. The wells were purged by removing approximately three well volumes of water using a centrifugal pump and clean polyvinyl chloride (PVC) pipe. Conductivity, pH, temperature, and turbidity were measured during purging. The purged groundwater was stored in 55-gallon drums and then hauled offsite for disposal.

After purging, a groundwater sample from each well was collected using clean, stainless steel bailers. Groundwater from each well was decanted into laboratory-prepared sample bottles. The samples were labeled and stored on ice until their delivery to the laboratory under chain of custody.

CHEMICAL ANALYSES

The four groundwater samples and a trip blank were analyzed by Pace Incorporated Environmental Laboratory (Pace), Petaluma, California, a state-certified laboratory for the analyses performed. The groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and total petroleum hydrocarbons as diesel (TPHd) by Modified EPA Test Method 8015 and for benzene, toluene, ethylbenzene, and xylene (BTEX) and Methyl-tert-butyl Ether (MTBE) by EPA Test Method 8020. Additionally, samples from Wells MW-2 and MW-4 were analyzed for petroleum hydrocarbon utilizing microorganisms, dissolved oxygen, and nutrients at HLA's laboratory in Novato, California. Dissolved oxygen was measured in the field by HLA. These analyses were performed to identify naturally occurring hydrocarbon utilizing microorganisms and the nutrient concentrations in groundwater to assess if passive bioremediation is occurring at the site.

RESULTS

A slight petroleum hydrocarbon odor was noted in the water from Well MW-4. No floating product or petroleum hydrocarbon sheen was observed in any of the monitoring wells.

Groundwater elevations ranged from 10.29 to 11.20 feet above mean sea level. Water-level data are presented in Table 1, and groundwater elevations are shown on Plate 2. These data indicate that the January 1996 groundwater flow direction is generally toward the east at a gradient of approximately 0.01 foot per foot.

Table 2 summarizes the results of the petroleum hydrocarbon analyses for groundwater samples; laboratory reports and chain of custody documentation for the quarter are attached. TPHd was detected in samples from Wells MW-2, 3, and 4 at 160, 630, and 1,600 micrograms per liter (µg/L), respectively. TPHg was detected in the samples from Wells MW-1, 3, and 4, at 1,100, 210, and 1,700 µg/L, respectively. For the samples from Wells MW-1 and -3, the laboratory report stated that the hydrocarbons present do not match the profile of the laboratory gasoline standard but represent

MTBE, a gasoline additive. Benzene was not detected in the samples from Wells MW-2 and MW-3, but were detected slightly above the laboratory reporting limit in the samples from Wells MW-1 and MW-4 at 0.7 μg/L and 4.5 μg/L, respectively. Benzene was detected in the trip blank at 0.61 μg/L; therefore, the similar concentration reported for benzene in Well MW-1 may not be valid. MTBE was detected in the samples from Wells MW-1 through MW-4 at 1,800, 66, 350 and 16 μg/L, respectively.

Results of microbial, dissolved oxygen, and nutrient analyses for the water samples from Wells MW-2 and MW-4 are summarized in Table 3, attached. The microbial analysis was used to estimate the total number of microorganisms that have the metabolic capability to utilize hydrocarbons (in this case gasoline and diesel) as a primary source of carbon and energy. Microorganisms capable of degrading petroleum hydrocarbons were present in groundwater samples from Wells MW-2 and MW-4 at 15 and 32 counts per milliliter of water, respectively. The nutrient and dissolved oxygen analyses were used to assess the availability of these compounds to support passive bioremediation at the site. Nitrogen as nitrate and ammonia and phosphorus as orthophosphate were detected in the samples at concentrations up to 8.0, 6.85, and 14.11 mg/L, respectively. Dissolved oxygen was reported at 4.0 and 3.4 mg/L, for Wells MW-2 and MW-4, respectively.

DISCUSSION

Analytical data indicate that petroleum hydrocarbon constituents are present in shallow groundwater adjacent to the former gasoline and existing diesel USTs. The benzene concentration measured in the groundwater sample from Well MW-4 (4.5 μg/L) exceeds the Maximum Contaminant Level (MCL) of 1 μg/L for drinking water in California as promulgated by the California Environmental Protection Agency; however, the affected groundwater is not used as a source of drinking water. Groundwater samples from wells downgradient from the former gasoline UST excavation (MW-1 through MW-3) either contained very low concentrations (below drinking water standards) or did not contain detectable concentrations of BTEX. However, MTBE was present in samples from these wells. MTBE is a recent additive to gasoline (since the early 1980s) for which there is currently no drinking-water standard. The RWQCB has not developed a generic groundwater cleanup criteria for MTBE. Also, in their July 18, 1995, memorandum, the RWQCB stated that because of insufficient EPA health information, the RWQCB is not presently treating MTBE as a human health threat and has no intention of requiring remediation specifically for MTBE, nor as a factor in site closure consideration (*RWQCB, 1995*).

Results of the TPHd analysis suggest that low concentrations of diesel exist in the groundwater adjacent to the existing diesel UST. The concentration measured in the sample from Well MW-3 is an order of magnitude lower than the concentration detected during quarterly monitoring in 1990 and 1995. The diesel concentrations detected in the sample from Well MW-2 and MW-4 were consistent with previous results.

Concentrations of hydrocarbons, nutrients, and dissolved oxygen can be used to assess whether passive bioremediation is occurring in groundwater. Hydrocarbon-utilizing microorganisms, nitrate, and orthophosphate concentrations decreased and ammonia concentrations increased since the October 1995 sampling event. The concentration changes may have resulted from many site variables including groundwater recharge from rain in December and influences due to adjacent landscaped

areas. Generally, the acceptable concentrations of inorganic nutrients necessary to sustain microbial metabolism of hydrocarbons are as follows:

- Nitrogen as nitrate - 10 milligrams (mg) per 100 mg hydrocarbons
- Phosphorus - 1 mg per 100 mg hydrocarbons

The results of the groundwater chemistry analysis are summarized in Tables 2 and 3. These analyses indicate that the nutrient concentrations are sufficient to support microbial degradation of the hydrocarbons in the groundwater. The low dissolved oxygen concentration in groundwater is sufficient to support passive bioremediation of the hydrocarbons in the groundwater.

Recently, the University of California Leaking Underground Fuel Tank (UC LUFT) Team recommended utilizing passive bioremediation at leaking UST sites as a remedial alternative where passive bioremediation processes have been demonstrated (*Lawrence, 1995*). The UC LUFT team, comprised of scientists from the State Water Resources Control Board (SWRCB), Lawrence Livermore Laboratories, and University of California, was tasked by the SWRCB to evaluate the current LUFT program and recommend improvements and streamline the LUFT clean-up decision-making process.

HLA believes that the hydrocarbon concentrations detected at the former gasoline and existing diesel UST site do not pose a significant threat to human health and the environment. Reasons for this conclusion include: (1) no water wells are known to exist downgradient from the site, and (2) passive bioremediation will degrade the hydrocarbons in groundwater beneath the site, thus limiting migration of the hydrocarbon plume.

The next round of quarterly groundwater monitoring is scheduled for the beginning of April 1996.

If you have questions or comments please call Jeff Ludlow at (415) 884-3178.

Yours very truly,

HARDING LAWSON ASSOCIATES

Jeffrey F. Ludlow, R.G. 6369
Senior Geologist

R. Bruce Scheibach, R.G. 5062
Principal Hydrogeologist

JFL/RBS/pm/C42821-H

Attachments: Table 1 Groundwater Elevations
Table 2 Groundwater Analytical Results
Table 3 Microbial, Nutrient, and Dissolved Oxygen Analytical Results
Plate 1 Site Location Map
Plate 2 Groundwater Elevation and Quality Data
Field Sampling Forms
Laboratory Analytical Report

References:

California Regional Water Quality Control Board, 1995. *Recommended Guidelines for Methyl Tertiary Butyl Ether (MTBE) Reporting at Fuel Leak Sites*. July 18.

HLA, 1995. *Groundwater Characterization, Former Gasoline and Existing Diesel Underground Storage Tank Site, 777 San Marin Drive, Novato, California*. August 3.

Lawrence Livermore National Laboratory, 1995. *Recommendations to Improve the Clean-up Process for California's Leaking Underground Fuel Tanks (LUFTs)*. October 16.

Table 1. Groundwater Elevations
777 San Marin Drive
Novato, California

Well Number	Sample Date	Top of Casing Elevation (ft MSL)*	Depth to Water (ft BTOC)**	Groundwater Elevation (ft MSL)
MW-1	4/3/90	19.09	10.18	8.91
	8/8/90	19.09	11.24	7.85
	11/16/90	19.09	11.62	7.47
	6/22/95	19.09	8.98	10.11
	10/2/95	19.09	9.06	10.03
	1/6/96	19.09	8.80	10.29
MW-2	4/3/90	19.57	10.48	9.09
	8/8/90	19.57	11.54	8.03
	11/16/90	19.57	11.92	7.65
	6/22/95	19.57	9.18	10.39
	10/2/95	19.57	9.27	10.30
	1/6/96	19.57	8.99	10.58
MW-3	4/3/90	19.17	10.20	8.97
	8/8/90	19.17	11.28	7.89
	11/16/90	19.17	11.68	7.49
	6/22/95	19.17	9.02	10.15
	10/2/95	19.17	9.07	10.10
	1/6/96	19.17	8.82	10.35
MW-4	6/22/95	19.63	8.63	11.00
	10/2/95	19.63	8.69	10.94
	1/6/96	19.63	8.43	11.20

Notes:

* Feet above mean sea level.
** Below top of PVC casing.

Table 2. Groundwater Analytical Results
777 San Marin Drive
Novato, California

Well Number	Sample Date		TPH Diesel (µg/L)	TPH Motor Oil (mg/L)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Methyl-Tert-Butyl Ether (µg/L)
MW-1	4/4/90		<50	<0.05	NT	<0.5	<0.5	<0.5	<0.5	NT
	8/8/90		<1,000	NT	NT	<0.5	<0.5	<0.5	<0.5	NT
	11/16/90		<50	<0.5	NT	<0.5	<0.5	<0.5	<0.5	NT
	6/22/95		95[b]	NT	1,400[a]	<5	<5	<5	<10	NT
	10/2/95		<50	NT	970[a]	<5	<5	<5	<10	1,800
	1//6/96		<50	NT	1,100[a]	0.7	1.1	<0.5	1.3	1,800
MW-2	4/4/90		<50	<0.05	NT	<0.5	<0.5	<0.5	<0.5	NT
	8/8/90		<1,000	NT	NT	<0.5	<0.5	<0.5	<0.5	NT
	11/16/90		<50	<0.5	NT	<0.5	<0.5	<0.5	<0.5	NT
	6/22/95		86[b]	NT	380[a]	<0.5	<0.5	<0.5	<1	NT
	10/2/95		76	NT	72[a]	<0.5	<0.5	0.7	1.9	120
	1/6/96		160	NT	<50	<0.5	<0.5	<0.5	<1	66
MW-3	4/4/90		190	<0.5	NT	<0.5	<0.5	<0.5	<0.5	NT
	4/4/90	dup	170	<0.5	NT	<0.5	<0.5	<0.5	<0.5	NT
	8/8/90		1,100	NT	NT	<0.5	<0.5	<0.5	<0.5	NT
	8/8/90	dup	1,100	NT	NT	<0.5	<0.5	<0.5	<0.5	NT
	11/16/90		2,800	<0.5	NT	<0.5	<0.5	<0.5	<0.5	NT
	11/16/90	dup	<50	<0.5	NT	<0.5	1.4	<0.5	<0.5	NT
	6/22/95		1,700	NT	460[a]	<0.5	<0.5	<0.5	<1	NT
	10/2/95		3,400[c]	NT	530[a]	<2.5	3.1	2.6	8.1	720
	1/6/96		630	NT	210[a]	<0.5	<0.5	<0.5	<1	350
MW-4	6/22/95		5,800	NT	16,000	120	65	380	1,200	NT
	10/2/95		3,100	NT	4,000	20	41	47	10	120
	1/6/96		1,600[c]	NT	1,700	4.5	26	4.3	7.8	16
Field Blank	10/2/95		<50	NT	<50	<0.5	<0.5	0.55	1	<5
Trip Blank	1/6/96		NT	NT	<50	0.61	<0.5	<0.5	<1	<5

Notes:

mg/L Milligrams per liter (parts per million).
µg/L Micrograms per liter (parts per billion).
<0.05 Analyte not detected at or above the indicated laboratory reporting limit.
NT Not tested.
dup Duplicate sample.

a Hydrocarbons present do not match profile of the laboratory gasoline standard.
The reported concentration is for Methyl-tert-butyl ether, a gasoline additive.
b Sample pattern does not match Diesel Standard pattern.
Sample exhibited a pattern similar to the Method Blank pattern.
c The laboratory report indicated that late hydrocarbons are also present (heavier than diesel).

Table 3. Microbial, Nutrient and Dissolved Oxygen Analytical Results
777 San Marin Drive
Novato, California

Well Number	Sample Date	Hydrocarbon-Utilizing Microorganisms (CFU/mL)	Nitrate-N (mg/L)	Ammonia-N (mg/L)	Orthophosphate-P (mg/L)	Dissolved Oxygen (mg/L)
MW-2	10/2/95	2×10^2	21	3.9	17.9	4.0
	1/6/96	1.5×10^1	4.4	6.85	6.76	4.0
MW-4	10/2/95	2×10^2	9.1	0.96	21.9	3.4
	1/6/96	3.2×10^1	8.0	6.15	14.11	3.4

Notes:

CFU/mL Colony-forming unit per milliliter of water.
mg/L Milligram per liter.

File

STATE OF CALIFORNIA - CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY PETE WILSON, Governor

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SAN FRANCISCO BAY REGION
2101 WEBSTER STREET, Suite 500
OAKLAND, CALIFORNIA 94612
Tel: (510) 286-1255
FAX: (510) 286-1380
BBS: (510) 286-0404

DATE: September 6, 1996
UST File No. 21-0051 (JMJ)
2158.12

RECEIVED
SEP 13 1996
WASTE MANAGEMENT

Mr. Raymond F. Jackson
Fireman's Fund Insurance Company
777 San Marin Drive
Novato, CA 94998

Dear Mr. Jackson:

SUBJECT: Underground Storage Tank (UST) Case Closure for Fireman's Fund Insurance Company, 777 San Marin Drive, Novato, Marin County, UST Case No. 21-0051

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly and currently located at the above described location. Enclosed is the Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e).

Please contact John Jang at (510) 286-0554 if you have any questions regarding this matter.

Sincerely,

Loretta K. Barsamian
Executive Officer

Stephen J. Morse

Steve Morse
Chief, Toxics Cleanup Division

Enclosure
cc w/ enclosure: Mr. Tim Underwood, Marin County Waste Management
Mr. Dave Deaner, SWRCB UST Cleanup Fund Unit

Mr. Carl Michelson
Harding Lawson Associates
P. O. Box 6107
Novato, CA 94949

SITE CLOSURE SUMMARY

I. AGENCY INFORMATION

Date: Sept. 4, 1996

Agency Name: S.F.B.R.W.Q.C.B.	Address: 2101 Webster Street
City/State/Zip: Oakland, CA 94612	Phone: (510) 286-1255
Responsible Staff Person: JOHN JANG	Title: Associate WRCE

II. SITE INFORMATION

Site Facility Name: Fireman's Fund Insurance Company facility		
Site Facility Address: 777 San Marin Drive, Novato, Marin County		
RB LUSTIS Case No.: 21-0051	Local or LOP Case No.:	Priority: 1C3
URF Filing Date: 4/20/95	SWEEPS No.:	

Responsible Parties (include addresses and phone numbers)	consultant: Carl Michelsen
Mr. Raymond F. Jackson	Harding Lawson Associates
Fireman's Fund Insurance Co.	105 Digital Drive
777 San Marin Drive	P.O. Box 6107
Novato, CA 94998	Novato, CA 94949 (415-884-3274)

Tank No.	Size in Gallons	Contents	Closed In Place/Removed?	Date
1, 2, and 3	10,000 each	unleaded gasoline	removed	5/3/95
4.	10,000	leaded gasoline	removed	5/3/95
5	5,000	diesel	~~[illegible]~~ still active	
6	1,000	waste oil	removed	5/3/95

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Diesel UST (loose fitting at fill pipe). Gasoline USTs (unknown)		
Site characterization complete? (Yes) No	Date Approved By Oversight Agency: this closure letter	
Monitoring wells installed? (Yes) No	Number: 4	Proper screened interval? (Yes) No
Highest GW Depth Below Ground Surface: 8.43 feet	Lowest Depth: 11.92 feet	Flow Direction: to the east-southeast
Most Sensitive Current Use: None known		
Most Sensitive Potential Use and Probability of Use: None known		
Are drinking water wells affected? Yes (No)	Aquifer Name:	
Is surface water affected? Yes (No)	Nearest/Affected SW Name: Rush Creek (1000 feet to the east; in the vicinity of this site, Rush Creek has been channelized & is carried by concrete culverts)	
Off-Site Beneficial Use Impacts (Addresses/Locations): None known		
Report(s) on file? (Yes) No	Where is report(s) filed? RWQCB's	

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	**Amount (Include Units)**	**Action (Treatment or Disposal w/Destination)**	**Date**
Tank	5 tanks	to Redwood Landfill (Novato)	5/3/95
Piping			
Free Product w/in WDT	650 gallon	to Alviso Independent Oil (Alviso, CA)	5/2/95
Soil	280 yd^3	to Redwood Landfill (Novato)	5/17/95
Groundwater			
Barrels			

MAXIMUM DOCUMENTED POLLUTANT CONCENTRATIONS BEFORE AND AFTER CLEANUP									
POLLUTANT	**Soil (ppm)**		**Water (ppm)***		**POLLUTANT**	**Soil (ppm)**		**Water (ppm)**	
	Before	**After**	**Before**	**After**		**Before**	**After**	**Before**	**After**
TPH (Gas)	0.46	0.46	28.0	16.0	Xylene	ND	ND	4.800	1.20
TPH (Diesel)	910	910		5.80	Ethylbenzene	ND	ND	0.260	0.380
Benzene	ND	ND	0.760	0.12	Oil & Grease	490	46.6		
Toluene	0.008	ND	1.000	0.065	Heavy Metals	background			
~~Other~~ MTBE				1.80	TPH-mo, VOCs, ~~Other~~ SVOCs, pesticides & PCBs	ND			ND

Comments (Depth of Remediation, etc.): * Concentration in GW has decreased significantly since UST removal (except for MTBE). ~~Before~~ Water samples before remediation is from UST excavation pit. Motor oil was ND in both soil & GW samples.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? (Yes) No

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? (Yes) No

Does corrective action protect public health for current land use? (Yes) No

Site Management Requirements: Continued monitoring of the existing diesel UST will be decommissioned after final closure. If MWs will no longer be used, it should be properly decommissioned in accordance with California well standards (Bulletin 74-81, dated 12/81 & Bulletin 74-90, dated 6/91)

Monitoring Wells Decommissioned: Yes (No) | Number Decommissioned: | Number Retained:

List Enforcement Actions Taken: None

List Enforcement Actions Rescinded:

V. TECHNICAL REPORTS, CORRESPONDENCE ETC., THAT THIS CLOSURE RECOMMENDATION WAS BASED UPON

Title:	Date:
① Report Phase I & II Environmental Assessment (Dames & Moore)	11/13/89
② Groundwater (GW) Investigation (Harding Lawson Asso. or HLA)	6/7/90
③ Various Quarterly GW Monitoring Reports (HLA)	Various
④ UST removal package by M.R.L. Underground Tank Testing, Inc.	6/29/95
⑤ GW Characterization, Former Gasoline UST Site (HLA)	8/3/95
⑥ Soil Excavation Volumes (HLA)	8/23/96

VI. ADDITIONAL COMMENTS, DATA, ETC.

PLEASE INCLUDE/ATTACH THE FOLLOWING AS APPROPRIATE:

1) SITE MAP INDICATING TANK PIT LOCATION, MONITORING WELL LOCATION, GROUNDWATER GRADIENT, ETC.; AND,

2) SITE COMMENTS WORTHY OF NOTICE (E.G., AREA OF RESIDUAL POLLUTION LEFT IN PLACE, DEED NOTICES ETC.)

See attached site summary along with tables & figures.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

Site Closure Summary for Fireman's Fund Insurance Company Facility, 777 San Marin Drive, Novato, Marin County

by John Jang, Regional Water Quality Control Board, September 4, 1996

The site is currently leased to the Fireman's Fund Insurance Company. The four former gasoline USTs and the current diesel UST were automatically monitored hourly by a computerized unit. Any leaks or unauthorized withdrawals would trigger an audio alarm. In addition, weekly dipstick measurements were conducted on the USTs and reconciled with pump readings. The diesel UST failed a tank test on 7/10/86. The top of the tank was subsequently exposed and a loose fitting was found at the fill pipe. The fitting was repaired and the diesel UST passed a tank test on 8/4/86 and passed all of the annual tests since then. On 10/22/89 eight soil borings (B-1 thru B-8) were drilled (Figures 2 & 3). Analytical results shown in Tables 1 & 2. B-8 (located adjacent to the diesel UST) contained elevated concentrations of TPH-g, TPH-d, and TPH-motor oil (TPH-mo). On March 23 and 26, 1990, six soil borings (B-1 thru B-6) were drilled (Plate 4) in the diesel UST area. Soil observed in the borings was predominantly clay. Three of the borings were completed as monitoring wells (MW1 thru MW3). Soil and groundwater results from this investigation and from two onsite irrigation wells indicate low or non-detectable (ND) concentrations of TPH-d, TPH-mo, and BTEX (Tables 3 and 4).

Four gasoline USTs and one waste oil tank were removed in May 1995. At that time 280 cubic yards of soil were removed to Redwood Landfill. Soil samples from the excavations and from the stockpiled soil were all ND or contained low concentrations for metals, TRPH, TPH-g, TPH-d, BTEX, and VOCs. The pit water sample indicated up to 28,000 ppb of TPH-g and 760 ppb of benzene (attached). It was observed that the southeast rib of the southernmost gasoline UST had cracked and that was the probable point of release. On June 21, 1995, MW4 was installed adjacent and downgradient of the cracked UST. Since the UST removal in May 1995, concentration of TPH-g in MW4 has decreased from 16,000 ppb to 1,200 ppb and the concentration of benzene in MW4 has decreased from 120 ppb to 2.9 ppb over the last four quarters of groundwater monitoring (Table 6). Biodegradation of the petroleum hydrocarbons in the groundwater is occurring as evidence by the decreasing concentrations of TPH-g and benzene and the fact that samples from the MWs indicate microorganisms capable of degrading petroleum hydrocarbons were present in good quantity and there is sufficient nutrients and dissolved oxygen in the groundwater (Tables 6 and 7).

I recommend closure for this site since the source of groundwater pollution has been removed (USTs and contaminated soil), groundwater concentration for TPH-g and BTEX has decreased significantly since source removal (dissolved petroleum hydrocarbon plume is stable or decreasing), the shallow groundwater is not a current source of drinking water, there are no nearby drinking water wells, and the nearest surface water is about 1000 feet east of the UST area.

TABLE 1

SUMMARY OF CHEMICAL ANALYSIS OF SOIL SAMPLES FOR ORGANIC COMPOUNDS [1]
777 San Marin Drive, Novato, California

Analysis	Detection Limit(ppm)	B-1 5.8 ft	B-2 5.8 ft	B-2 15.8 ft
Volatile Organic Compounds (EPA Method 8240)	--- [2]	---	---	* [3]
Pesticide & PCB's (EPA Method 8080)	---	---	---	*
Semivolatile Organic Compounds (EPA Method 8270)	---	---	---	*
TPH as Gasoline (EPA Method 5020/8015)	1.0	*	*	
BTEX (EPA Method 8020)				
Benzene	0.40	*	*	
Toluene	0.40	*	*	
Ethylbenzene	0.40	*	*	
Xylene	0.40	*	*	

Analysis	Detection Limit(ppm)	B-3 5.8 ft	B-4 5.8 ft	B-4 15.8 ft
Volatile Organic Compounds (EPA Method 8240)	---	---	---	*
Pesticide & PCB's (EPA Method 8080)	---	---	---	*
Semivolatile Organic Compounds (EPA Method 8270)	---	---	---	*
TPH as Gasoline (EPA Method 5020/8015)	1.0	*	*	
BTEX (EPA Method 8020)				
Benzene	0.40	*	*	
Toluene	0.40	*	*	
Ethylbenzene	0.40	*	*	
Xylene	0.40	*	*	

Notes: [1] Analysis performed by ACCULAB Environmental Services, Petaluma, California. All concentrations in parts per million.
[2] --- = Not applicable or no analysis performed.
[3] * = Not detected.

TABLE 1

Analysis	Detection Limit(ppm)	B-5 5.8 ft	B-5 10.5 ft	B-6 5.8 ft
Volatile Organic Compounds (EPA Method 8240)	---[2]	---	*[3]	---
Pesticide & PCB's (EPA Method 8080)	---	---	*	---
Semivolatile Organic Compounds (EPA Method 8270)	---	---	*	---
TPH as Gasoline (EPA Method 5020/8015)	1.0	*		*
BTEX (EPA Method 8020)				
Benzene	0.40	*		*
Toluene	0.40	*		*
Ethylbenzene	0.40	*		*
Xylene	0.40	*		*

Analysis	Detection Limit(ppm)	B-7 10.5 ft	B-7 15.8 ft	B-8 10.8 ft	B-8 15.5 ft
Volatile Organic Compounds (EPA Method 8240)	---	---	*	---	---
Pesticide & PCB's (EPA Method 8080)	---	---	---	---	---
Semivolatile Organic Compounds (EPA Method 8270)	---	---	---	---	---
TPH (EPA Method 418.1)	6.0	---	---	490.0	---
TPH as Diesel (EPA Method 8015M)	30.0	---	---	910.0	---
TPH as Gasoline (EPA Method 5020/8015)	1.0	*	*	*	*
BTEX (EPA Method 8020)					
Benzene	0.40	*	*	*	*
Toluene	0.40	*	*	*	*
Ethylbenzene	0.40	*	*	*	*
Xylene	0.40	*	*	*	*

Notes: [1] Analysis performed by ACCULAB Environmental Services, Petaluma, California. All concentrations in parts per million.
[2] --- = Not applicable or no analysis performed.
[3] * = Not detected.

TABLE 2

SUMMARY OF CHEMICAL ANALYSIS OF SOIL SAMPLES FOR METALS [1]

777 San Marin Drive, Novato, California

Metal	Detection Limit(ppm)	Western U.S. [2] Soil Mean	CA [3] TTLC	B-2 15.8 ft.
Antimony	9.9	-- [4]	500.0	* [5]
Arsenic	0.60	6.1	500.0	6.54
Beryllium	0.20	0.6	75.0	0.46
Cadmium	0.099	<1.0	100.0	3.60
Chromium	0.39	38.0	2,500.0	111.0
Copper	0.20	21.0	2,500.0	21.6
Total Lead	0.99	18.0	1,000.0	1.6
Organic Lead	0.010	--	--	*
Mercury	0.04	0.055	20.0	*
Nickel	0.99	16.0	2,000.0	175.0
Selenium	0.60	0.25	100.0	*
Silver	0.20	<0.5	500.0	*
Thallium	4.0	--	700.0	*
Zinc	0.20	51.0	5,000.0	40.5
Cyanide	0.45	--	--	0.88

Notes:
[1] Analysis performed by ACCULAB Environmental Services, Petaluma, California. All concentrations in parts per million (ppm).
[2] Based on Connor and Shacklette, 1975.
[3] California Total Threshold Limit Concentration.
[4] -- = Data not available or not applicable.
[5] * = Not Detected.

TABLE 2

SUMMARY OF CHEMICAL ANALYSIS OF SOIL SAMPLES FOR METALS [1]

777 San Marin Drive, Novato, California

Metal	Detection Limit(ppm)	Western U.S. [2] Soil Mean	CA [3] TTLC	B-4 15.8 ft.
Antimony	9.9	-- [4]	500.0	* [5]
Arsenic	0.60	6.1	500.0	6.54
Beryllium	0.20	0.6	75.0	0.53
Cadmium	0.099	<1.0	100.0	4.47
Chromium	0.39	38.0	2,500.0	61.9
Copper	0.20	21.0	2,500.0	19.3
Total Lead	0.99	18.0	1,000.0	8.0
Organic Lead	0.010	--	--	*
Mercury	0.04	0.055	20.0	*
Nickel	0.99	16.0	2,000.0	83.9
Selenium	0.60	0.25	100.0	*
Silver	0.20	<0.5	500.0	*
Thallium	4.0	--	700.0	*
Zinc	0.20	51.0	5,000.0	42.4
Cyanide	0.45	--	--	*

Notes:
[1] Analysis performed by ACCULAB Environmental Services, Petaluma, California. All concentrations in parts per million (ppm).
[2] Based on Connor and Shacklette, 1975.
[3] California Total Threshold Limit Concentration.
[4] -- = Data not available or not applicable.
[5] * = Not Detected.

Table ~~X~~ 3 Soil Sample Analytical Results
March 23 and 26, 1990, Sampling
(parts per million)

	MDL*	B-1	B-2	B-3	B-4	B-5	B-6
Sample Number		9003B101	9003B201	9003B301	9003B401	9003B502	9003B602
Sample Depth**		12-12.5	11.5-12	11-11.5	11.5-12	11-11.5	12-12.5
Sample Date		3/23	3/23	3/23	3/26	3/26	3/26
TPH (Diesel)	1	36	ND	ND	ND	ND	16
TPH (Motor oil)	10	ND	ND	ND	ND	ND	ND
Benzene	0.0025	ND	ND	ND	ND	ND	ND
Toluene	0.0025	0.008	ND	ND	ND	ND	0.0069
Ethylbenzene	0.0025	ND	ND	ND	ND	ND	ND
Xylenes	0.0025	ND	ND	ND	ND	ND	ND

* Method detection limit

** Feet below ground surface

ND Not detected

F12564-H

TABLE 2

SUMMARY OF CHEMICAL ANALYSIS OF SOIL SAMPLES FOR METALS [1]

777 San Marin Drive, Novato, California

Metal	Detection Limit(ppm)	Western U.S. [2] Soil Mean	CA [3] TTLC	B-5 10.5 ft.
Antimony	9.9	-- [4]	500.0	* [5]
Arsenic	0.60	6.1	500.0	6.16
Beryllium	0.20	0.6	75.0	0.48
Cadmium	0.099	<1.0	100.0	2.74
Chromium	0.39	38.0	2,500.0	49.5
Copper	0.20	21.0	2,500.0	15.9
Total Lead	0.99	18.0	1,000.0	*
Organic Lead	0.010	--	--	*
Mercury	0.04	0.055	20.0	*
Nickel	0.99	16.0	2,000.0	62.7
Selenium	0.60	0.25	100.0	*
Silver	0.20	<0.5	500.0	*
Thallium	4.0	--	700.0	*
Zinc	0.20	51.0	5,000.0	32.5
Cyanide	0.45	--	--	*

Notes:
[1] Analysis performed by ACCULAB Environmental Services, Petaluma, California. All concentrations in parts per million (ppm).
[2] Based on Connor and Shacklette, 1975.
[3] California Total Threshold Limit Concentration.
[4] -- = Data not available or not applicable.
[5] * = Not Detected.

Table 7. Microbial, Nutrient, and Dissolved Oxygen Analytical Results
Fireman's Fund Insurance Company
777 San Marin Drive
Novato, California

Well Number	Sample Date	Petroleum Hydrocarbon-Utilizing Microorganisms (CFU/mL)	Nitrate-N (mg/L)	Ammonia-N (mg/L)	Orthophosphate-P (mg/L)	Dissolved Oxygen (mg/L)
MW-2	10/2/95	2×10^2	21	3.9	17.9	4.0
(downgradient)	1/6/96	1.5×10^1	4.4	6.85	6.76	3.3
	4/2/96	2×10^2	ND (0.05)	0.3	7.35	3.3
MW-4	10/2/95	2×10^2	9.1	0.96	21.9	3.4
(upgradient)	1/6/96	3.2×10^1	8.0	6.15	14.11	3.4
	4/2/96	1.4×10^2	0.1	2.1	7.65	3.0

Notes:

CFU/mL	Colony-forming unit per milliliter of water.
Nitrate-N	Nitrate as nitrogen.
Ammonia-N	Ammonia as nitrogen.
Orthophosphate-P	Orthophosphate as phosphorus.
mg/L	Milligrams per liter.

Table 6. Groundwater Analytical Results
Fireman's Fund Insurance Company
777 San Marin Drive
Novato, California

Well Number	Sample Date	TPH Diesel (µg/L)	TPH Motor Oil (mg/L)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	Methyl-Tert-Butyl Ether (µg/L)
MW-1	4/4/90	<50	<0.05	NT	<0.5	<0.5	<0.5	<0.5	NT
	8/8/90	<1,000	NT	NT	<0.5	<0.5	<0.5	<0.5	NT
	11/16/90	<50	<0.5	NT	<0.5	<0.5	<0.5	<0.5	NT
	6/22/95	95[b]	NT	1,400[a]	<5	<5	<5	<10	NT
	10/2/95	<50	NT	970[a]	<5	<5	<5	<10	1,800
	1//6/96	<50	NT	1,100[a]	0.7	1.1	<0.5	1.3	1,800
	4/2/96	(230[d])	NT	810[a]	<0.5	<0.5	<0.5	<1	1,300
MW-2	4/4/90	<50	<0.05	NT	<0.5	<0.5	<0.5	<0.5	NT
	8/8/90	<1,000	NT	NT	<0.5	<0.5	<0.5	<0.5	NT
	11/16/90	<50	<0.5	NT	<0.5	<0.5	<0.5	<0.5	NT
	6/22/95	86[b]	NT	380[a]	<0.5	<0.5	<0.5	<1	NT
	10/2/95	76	NT	72[a]	<0.5	<0.5	0.7	1.9	120
	1/6/96	160	NT	<50	<0.5	<0.5	<0.5	<1	66
	4/2/96	(300[d])	NT	<50	<0.5	<0.5	<0.5	<1	49
MW-3	4/4/90	190	<0.5	NT	<0.5	<0.5	<0.5	<0.5	NT
	4/4/90	dup 170	<0.5	NT	<0.5	<0.5	<0.5	<0.5	NT
	8/8/90	1,100	NT	NT	<0.5	<0.5	<0.5	<0.5	NT
	8/8/90	dup 1,100	NT	NT	<0.5	<0.5	<0.5	<0.5	NT
	11/16/90	2,800	<0.5	NT	<0.5	<0.5	<0.5	<0.5	NT
	11/16/90	dup <50	<0.5	NT	<0.5	1.4	<0.5	<0.5	NT
	6/22/95	1,700	NT	460[a]	<0.5	<0.5	<0.5	<1	NT
	10/2/95	3,400[c]	NT	530[a]	<2.5	3.1	2.6	8.1	720
	1/6/96	630	NT	210[a]	<0.5	<0.5	<0.5	<1	350
	4/2/96	(660[d])	NT	140[e]	<0.5	<0.5	<0.5	<1	120
MW-4	6/22/95	5,800	NT	16,000	120	65	380	1,200	NT
	10/2/95	3,100	NT	4,000	20	41	47	10	120
	1/6/96	1,600[c]	NT	1,700	4.5	26	4.3	7.8	16
	4/2/96	(310[d])	NT	1,200	2.9	26	2	2.1	8.5
Field Blank	10/2/95	<50	NT	<50	<0.5	<0.5	0.55	1	<5
Trip Blank	1/6/96	NT	NT	<50	0.61	<0.5	<0.5	<1	<5
Trip Blank	4/2/96	NT	NT	<50	<0.5	<0.5	<0.5	<1	<5

Notes:

mg/L Milligrams per liter (parts per million).
µg/L Micrograms per liter (parts per billion).
<0.05 Analyte not detected at or above the indicated laboratory reporting limit.
NT Not tested.
dup Duplicate sample.
a Hydrocarbons present do not match profile of the laboratory gasoline standard.
The reported concentration is for methyl-tert-butyl ether, a gasoline additive.
b Sample pattern does not match Diesel Standard pattern.
Sample exhibited a pattern similar to the Method Blank pattern.
c The laboratory report indicated that late hydrocarbons are also present (heavier than diesel).
d ( ), estimated. The methylene chloride solvent used for sample extraction was contaminated with a solvent that appears at the beginning of diesel chromatogram pattern. The concentration of this solvent in the laboratory method blank was quantified by the laboratory at 440 µg/L TPH as diesel. This value for the method blank was subtracted from each TPH diesel result. Chromatogram patterns for MW-1 and MW-2 do not indicate the presence of diesel in the samples. See text for additional discussion.
e Hydrocarbons present do not match profile of laboratory standard. Late hydrocarbons and MTBE are present.

Table 5 Groundwater Elevations
Fireman's Fund Insurance Company
777 San Marin Drive
Novato, California

Well Number	Sample Date	Top of Casing Elevation (ft MSL)*	Depth to Water (ft BTOC)**	Groundwater Elevation (ft MSL)
MW-1	4/3/90	19.09	10.18	8.91
	8/8/90	19.09	11.24	7.85
	11/16/90	19.09	11.62	7.47
	6/22/95	19.09	8.98	10.11
	10/2/95	19.09	9.06	10.03
	1/6/96	19.09	8.80	10.29
	4/2/96	19.09	8.83	10.26
MW-2	4/3/90	19.57	10.48	9.09
	8/8/90	19.57	11.54	8.03
	11/16/90	19.57	11.92	7.65
	6/22/95	19.57	9.18	10.39
	10/2/95	19.57	9.27	10.30
	1/6/96	19.57	8.99	10.58
	4/2/96	19.57	8.93	10.64
MW-3	4/3/90	19.17	10.20	8.97
	8/8/90	19.17	11.28	7.89
	11/16/90	19.17	11.68	7.49
	6/22/95	19.17	9.02	10.15
	10/2/95	19.17	9.07	10.10
	1/6/96	19.17	8.82	10.35
	4/2/96	19.17	8.82	10.35
MW-4	6/22/95	19.63	8.63	11.00
	10/2/95	19.63	8.69	10.94
	1/6/96	19.63	8.43	11.20
	4/2/96	19.63	8.52	11.11

Notes:

* Feet above mean sea level.
** Below top of PVC casing.

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

DATE: 05/10/95
PAGE: 11

PACE Project Number: 701420
Client Project ID: Fireman's Fund

CE Sample No: 70101688 Date Collected: 05/02/95
ient Sample ID: CENTER OF PIT W1 Date Received: 05/03/95

rameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
-- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	28000	ug/L	1200	05/05/95	CA LUFT	LMK		
Benzene	760	ug/L	12	05/05/95	CA LUFT	LMK	71-43-2	
Toluene	1000	ug/L	12	05/05/95	CA LUET	LMK	108-88-3	
Ethyl Benzene	260	ug/L	12	05/05/95	CA LUFT	LMK	100-41-4	
Xylene (Total)	4800	ug/L	25	05/05/95	CA LUFT	LMK	1330-20-7	
a,a,a-Trifluorotoluene (S)	100	%		05/05/95	CA LUFT	LMK	2164-17-2	
4-Bromofluorobenzene (S)	89	%		05/05/95	CA LUFT	LMK	460-00-4	

1455 McDowell Blvd. North, Suite D
Petaluma, CA 94954
TEL: 707-792-1865

An Equal Opportunity Employer

Table 4 Water Sample Analytical Results
April 4, 1990, Sampling
(parts per million)

	MDL*	MW-1	MW-2	MW-3	MW-3**	Irrigation Well No. 1	Irrigation Well No. 2
Sample Number		90040401	90040402	90040403	90040406	90040404	90040405
TPH (Diesel)	0.05	ND	ND	0.19	0.17	ND	ND
TPH (Motor oil)	0.05	ND	ND	ND	ND	ND	ND
Benzene	0.0005	ND	ND	ND	ND	ND	ND
Toluene	0.0005	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.0005	ND	ND	ND	ND	ND	ND
Xylenes	0.0005	ND	ND	ND	0.0006	ND	ND

* Method detection limit

** Duplicate sampling

ND Not detected

F12564-H

Underground Storage Tank Closure Report
Fireman's Fund Insurance Company
777 San Marin Drive
Novato, California 94998

Prepared for

Fireman's Fund Insurance Company
777 San Marin Drive
Novato, California 94998

HLA Project No. 38403 001

Ted Giesing
Staff Engineer

Michael Ware
Associate Engineer

August 6, 1997

Harding Lawson Associates
Engineering and Environmental Services
90 Digital Drive
Novato, California 94949 - (415) 883-0112

Harding Lawson Associates

August 6, 1997

38403 001

Mr. Steve Morse, Chief, Toxics Cleanup Division
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

NOTE - NOWHERE IN THIS SECTION DOES IT STATE THE RESULTS OF ANALYTICAL TESTING OF SOILS OR GW. — YOU HAVE TO DIG THROUGH THE LABS TEST RESULTS

Underground Storage Tank Closure Report
Fireman's Fund Insurance Company
777 San Marin Drive
Novato, California

Dear Mr. Morse:

This report describes closure activities in compliance with Title 23, Division 3, Chapter 16, Section 2672, Subsection (b) of the Underground Storage Tank Regulations, by the excavation and removal of one fiberglass 12,000-gallon diesel underground storage tank (UST) and the results of the soil sampling and analysis at Fireman's Fund Insurance Company (Fireman's), 777 San Marin Drive, Novato, California (site). This report also describes the findings of diesel contamination in soil near the UST, the unplanned release of diesel fuel, and the actions taken to remove source contamination at the site. Plate 1 shows the site location and other site features discussed herein. The work was performed by Harding Lawson Associates (HLA) on behalf of Fireman's in accordance with HLA's proposal dated March 28, 1997, and was authorized by a signed HLA Services Agreement dated April 4, 1997.

SCOPE OF WORK

The scope of work for the investigation included:

- Removing the existing UST
- Collecting soil and water samples from the excavation for chemical analysis.

PRE-EXCAVATION ACTIVITIES

On July 17, 1997, Fuel Oil Polishing Company pumped the diesel fuel from the UST. Approximately 1810 gallons of diesel were pumped into a new 2000-gallon aboveground storage tank, the remainder was pumped directly into a tanker truck and transported under signed manifest. Approximately 7/8-inch of unpolished diesel remained at the bottom of the UST. According to Jim Wyrick of ISS Energy Services, the Chief Engineer for Fireman's, this liquid level corresponds to 17 gallons based on a chart provided by the tank manufacturer.

BAZ NOTES

On July 18, 1997, Ted Giesing of HLA verified that the liquid level in the UST was approximately 1" from bottom of tank. Liquid level was measured using the stick gauge for that tank at the fill port on the east side of the tank.

SUMMARY OF SITE ACTIVITIES

On July 22, 1997, Wendt and Sons Construction, Inc. (Wendt), Lodi, California, under contract to HLA, began removal of a fiberglass 12,000-gallon diesel UST from the site. Representatives of HLA, Fireman's, and Marin County Department of Health (MCDH) were onsite during the UST removal.

Wendt first removed the concrete and asphalt paving above the UST to form an approximately 15' x 40' area. Excavation of the tank backfill soil began at 10:30 a.m. All excavated materials were placed on 6 mil polyethylene plastic at the temporary stockpile area shown on Plate 1. Soils were stockpiled separately from asphalt and concrete rubble. Later, Wendt loaded the concrete and pavement rubble into a bin and transported it to Dutra Recycling in Petaluma. Diesel fuel was observed in the pea gravel at the bottom of the excavation. The gravel around the fill pipes appeared discolored and moist. An Organic Vapor Meter (OVM), calibrated to a 100 ppmv isobutylene standard, was used to monitor the air near the soil. Readings ranged from 68 to 113 ppmv. Background OVM readings were 0 ppmv.

Following approval by the MCDH, Wendt drained and cleaned the existing fuel lines to the UST. The supply and return lines were then cut and capped. Under supervision of the MCDH, HLA had collected three samples of native soil with a drive sampler under the trench containing the old fuel lines. Laboratory analysis for EPA Method 8015M (TPHd) by Superior Laboratory in Martinez did not detect diesel in the soil. Per the approval of the MCDH, the lines were pressure grouted by Weeks Drill and Pump Company, Sebastopol, California, on July 23, 1997.

The tank was made inert using 20 pounds of crushed dry ice per 1000 gallons of volume to purge hydrocarbon vapors from the tank. A lower explosive limits meter (LEL) was used to measure the lower explosive limits of the tank vapors. A reading of 6 percent of LEL was observed, and MCDH gave permission to start tank removal. I WAS NOT PRESENT FOR THE LEL READING. WAS TOLD OF IT LATER. NOTE NO OX READING GIVEN. NOR DID I GIVE PERMISSION FOR TANK REMOVAL

Wendt attached cables to the lifting bungs on the UST and lifted the west end of the tank, using an excavator. The tank was inspected for evidence of leaks or holes. No holes were visible, however, the fiberglass had appeared to have weakened over time. As the tank was being lifted by the excavator, moist gravel and product was noticed under the tank. Groundwater was encountered at approximately 11 feet below ground surface (bgs).

At 1:15 p.m. the lifting bungs on the fiberglass tank broke off as excavator attempted to lift the tank out of the excavated pit. Other bungs were subsequently tried and broke off as the excavator attempted to lift the tank. At 1:30 p.m. the tank cracked open at the west end, apparently at a joint. After the tank had broken open it was visually evident that the reinforcing plates on the bungs were not completely fastened with fiberglass onto the tank and that the fiberglass was very brittle. Diesel fuel flowed out from the tank into the excavated pit as a result of the rupture. This volume of diesel is not known, however, it was significantly greater than the 17-gallon previous estimate. HLA believes that this discrepancy in volume was due to an unlevel orientation of the UST, causing an incorrect liquid level reading.

I THOUGHT THE TANK CRACKED OPEN ON THE EAST SIDE. PICTURES TO VERIFY

In an onsite meeting, Barbara Zett of MCDH, Dave Mason, and Michael Ware of HLA, Pat Clover of Fireman's, and Fred Kerby of Wendt, decided to remove the tank in sections, crush the sections and load them into a bin for disposal. A pump truck was called to pump any product left in the tank and from the bottom of the excavated hole. The next available pump truck was scheduled for the following morning at 6:00 am, July 23.

INTERIM ACTIONS

On July 22, 1997, Wendt used an excavator to break the UST into pieces and load them into a bin provided by Erickson, Inc. (Erickson). Erickson transported the tank pieces under manifest, sign by Pat Clover of Fireman's Fund. The excavation bottom contained recharged groundwater and diesel fuel. At 6:00 a.m. on July 23, 1997, Erickson pumped 1000 gallons of diesel and water from the bottom of the excavation into a tanker truck. Erickson transported the liquid to Evergreen in Redwood City under manifest signed by Jim Wyrick. Clear water quickly recharged into the pit, but became layered with diesel fuel residual from the old pea gravel backfill.

At the direction of Greg Mobley and Barbara Zett from MCDH, three side wall soil samples and one water sample were collected from the excavated area for laboratory analysis by EPA Method 8015M (TPHd) and EPA Method 8020 (BTEX) on a 24-hour turn-around-time. Side wall samples SW-W10FT and SW-S9FT were collected at 10 feet and 9 feet bgs, respectively. The excavator operator was directed to remove a bucket of soil from each desired sample location. The bucket was brought on to the surface and a sample collected until it was completely filled. The sample tubes were then covered with Teflon-lined plastic caps, labeled, and placed in a cooler with ice. All samples were shipped by courier under chain of custody control to Superior Laboratory (Superior), Martinez, California, which is state-certified for the analyses requested. Side wall sample SW-E8FT6 was collected at 8 feet 6 inches bgs by pushing a clean stainless steel tube directly into the soil of the sidewall. Each sampling location was mapped (see Plate 1), noted on Field Daily Reports, and photographed.

At the direction of Greg Mobley and Barbara Zett from MCDH, HLA also collected a samples of the recharged water in the excavated pit for BTEX and TPHd laboratory analysis (sample numbers H2O1110 and H2O21115, respectively). A decontaminated Teflon bailer was used to transfer water from the bottom of the excavated pit into the sample containers.

The additional soil removed from pit with the excavator was stockpiled on 6 mil polyethylene plastic in two new stockpiles. Two soil samples were collected from each of these stockpiles. To collect these samples, HLA removed at least one foot of surface material from the soil stockpile and pushed a clean stainless steel tube into the pile. The sample tubes were handled as described previously for excavation sidewall sampling. Superior composited the four samples into one sample for laboratory analysis for TPHd, BTEX, and 17 CCR Metals (CAM 17). The stockpile of soil from the July 22 excavation was sampled in four locations. Superior composited the four samples into one sample for laboratory analysis for TPHd, BTEX, and 17 CCR Metals (CAM 17).

SUGGESTED AS A METHOD OF SHOWING SOURCE OF CONTAMINATION WAS REMOVED FROM SITE

I MISSED MOST OF THE OVER-EXCAVATION GOING BACK AS CONTEL PUT IN HOLE

On the basis of the analytical results, additional excavation was required by MCDH. On July 25, 1997, Wendt started overexcavation in the presence of Barbara Zett with MCDH. Wendt removed contaminated soils and placed it in the previously created stockpiles. Wendt dug down until the bucket of the excavator hit a concrete deadman at a depth of approximately 13 feet bgs. A sump was dug into the soil at the west

I SAW THIS - OVER EXCAVATION WAS TO OCCUR LATER - I SAW NO SOIL EXCAVATION ON SIDE WALLS OR BOTTOM OF PIPE

end of the excavated pit, so that Erickson could pump out the water which had recharged into the excavation overnight. Approximately 2,500 gallons of water were pumped into the pump truck. Wendt continued to overexcavate the soil down to the concrete deadman and an additional 500 gallons of water was pumped out. The pumping was discontinued when the water appeared free from diesel contamination and clean water recharged into the pit. The water was transported to Evergreen in Redwood City by Erickson under manifest signed by Pat Clover of Fireman's.

AS I WAS TOLD

Overexcavation to the east was discontinued due to the presence of a 8" fire protection water main at the east end of the pit. This water pipe had a high potential for breakage and was already sagging slightly between two repair clamps from previous repairs. Soil was excavated to as great an extent feasible around and under the pipe, then clean 1.5" rock was placed around the pipe to protect it from accidental breakage.

WHICH STOCK PILE HAD OVEREXCAVATED SOIL — TESTING RESULTS ?

THEY COULD DO WHAT THEY WANTED - I WAS NOT DIRECTING THEIR WORK.

Approximately 300 cubic yards of soil were excavated. After overexcavation, at the approval of MCDH, Wendt placed 40 cubic yards of clean 1.5" rock in the bottom of the excavation. Wendt then placed a geomembrane filter fabric over the rock and backfilled the rest of the excavation with clean 3/8" pea gravel.

SITE RESTORATION ACTIVITIES

Wendt backfilled the top one foot of the excavation with clean baserock. The baserock was laid in two lifts, graded and compacted using a roller between lifts. Areas where asphalt pavement had been damaged were sawcut and removed. New asphalt pavement was laid over the entire impacted area.

The contaminated soil stockpiles were accepted and transported under manifest to BFI Livermore landfill, Livermore, California, a State certified Class II landfill.

LABORATORY ANALYTICAL TESTING

The sidewall soil samples collected from the UST excavation were analyzed for Total Petroleum Hydrocarbons calibrated as diesel (TPHd) using EPA Method 8015M, for benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8020. For stockpile characterization purposes, the stockpile soil samples were also analyzed for 17 metals using test method 17 CCR Metals (CAM 17) 6000 and 7000 series. Water samples from the site were analyzed for Total Petroleum Hydrocarbons calibrated as diesel (TPHd) using EPA Method 8015M, and for benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8020. Where possible, 24-hour rush analyses were performed on the samples.

SUBSURFACE CONDITIONS

Lithology

Observations during excavation revealed that the excavation sidewalls consisted tight native clay soil, and tank backfill material consisted of native clay soil and pea gravel. Excavated soil was monitored for organic vapors using an organic vapor meter (OVM). Soil that appeared stained yielded OVM readings of 68 to 113 ppmv. Groundwater was encountered at approximately 11 feet below ground surface (bgs).

Chemical Results of Soil Stockpile Sampling

The laboratory analytical report on the soil samples submitted for chemical analyses are presented in the appendix. Results from stockpile soil samples required that the soil be disposed of at a Class II landfill.

Chemical Results of Soil Sidewall Sampling

The laboratory analytical report on the soil sidewall samples submitted for chemical analyses are presented in the appendix.

Chemical Results of Fuel Line Trench Soil Sampling

The laboratory analytical report on the fuel line trench bottom soil samples submitted for chemical analyses are presented in the appendix.

CONCLUSIONS

On July 22, 1997, a 12,000-gallon UST was removed. In the process, an unplanned release of diesel fuel occurred. On the basis of the work performed to date, our observations in the field, and the analytical results, it is HLA's opinion that some diesel contamination existed at the site prior to tank removal. Upon breakage of the tank, additional diesel was introduced into the excavation. Interim actions were performed to remove the source contamination and to prevent the further spread of contamination. These actions included overexcavation of 300 cubic yards of soil and the pumping out approximately 4000 gallons of groundwater and diesel fuel. Soil was overexcavated on the sidewalls to the extent possible and feasible without damaging existing fire protection water piping on the east end, and to a depth of approximately 13 feet bgs to remove previous fill material. Source contamination was removed and clean rock backfill was placed in the bottom of the excavated area and lined with geomembrane filter fabric. Clean pea gravel was used to backfill the balance of the excavation. Contaminated soils and water were handled and disposed in accordance with state and local regulations. It is HLA's opinion that

THEY DON'T SUPPORT THROUGH LAB RESULTS HOW THEIR OPINION WAS REACHED.

closure conditions have been met in compliance to Title 23, Division 3, Chapter 16, Section 2672, Subsection (b) of the Underground Storage Tank Regulations, and requests closure of this UST site.

If you have any questions, please call the undersigned at (415) 883-0112.

Yours very truly,

HARDING LAWSON ASSOCIATES

Ted Giesing
Staff Engineer

Thane R. Williams FOR
Michael Ware
Construction Manager

TG/MW/lm49640.doc-Fmn

Appendix:
- A. Map of Sample Locations
- B. Chemical Results of Soil Stockpile Sampling
  Chemical Results of Soil Sidewall Sampling
  Chemical Results of Excavation Water Sampling
  Chemical Results of Fuel Line Trench Excavation Sampling
- C. Copies of Mainfests

cc: Mr. Patrick Clover, Fireman's Fund Insurance Company
Mr. Tim Underwood, Marin County Waste Management
Mr. Dave Deaner, SWRCB UST Cleanup Fund Unit

CERTIFIED UNIFIED PROGRAM AGENCY
County of Marin - (415) 473-6647
P.O. Box 4186, San Rafael, CA 94903-4186
HAZARDOUS MATERIALS AND HAZARDOUS WASTES
REGULATORY PROGRAM

PERMIT

Permit Number: 60-0314

Mailing Address	Facility Operator, Name, and Address
ANTHONY M. KOSMAS, DIR. CORP. RE FIREMAN'S FUND INSURANCE COMPANY 777 SAN MARIN DRIVE NOVATO CA 94945-0002	Anthony M. Kosmas, Dir. Corp. RE Fireman's Fund Insurance Company 777 San Marin Drive Novato, CA 94945-0002

Business is permitted in the following CUPA Programs:

- ☑ Hazardous Materials Business Plan
- ☑ Aboveground Storage Tank
- ☐ California Accidental Release Plan (CalARP)
- ☑ Hazardous Waste Generator
- ☐ Hazardous Waste Treatment
- ☐ Underground Storage Tank
- ☐ Uniform Fire Code Activities requiring a permit
- ☐ Sewage Discharge Activities requiring a permit
- ☐ Stormwater Discharge Activities requiring a permit

☐ New ☑ Annual ☐ Other ☐ Renewal

CERTIFICATION

This permit is issued based on the condition that the applicant and the facility is in compliance with all applicable rules, regulations, laws, and permit conditions pertaining to these permitted programs. Failure to comply will null and void this permit. See attached conditions of approval for each CUPA Program.

Signature Steve Devine Title Program Manager

Printed name Steve Devine Date Issued 12/18/2014

Expiration Date 12/31/2015

PERMIT CONDITIONS

Permit No: 60-0314 Facility: Fireman's Fund Insurance Company

COUNTY OF MARIN
DEPARTMENT OF PUBLIC WORKS
CERTIFIED UNIFIED PROGRAM AGENCY
County of Marin - Central Collections (415) 473-7555
P.O. Box 4220, San Rafael, CA 94913-4220

Invoice No: 21150

Date: November 20, 2014

Permit No: 60-0314

Type Permit: Annual

Mailing Address
ANTHONY M. KOSMAS, DIR. CORP. RE
FIREMAN'S FUND INSURANCE COMPANY
777 SAN MARIN DRIVE
NOVATO CA 94945-0002

Facility Operator, Name, and Address
Anthony M. Kosmas, Dir. Corp. RE
Fireman's Fund Insurance Company
777 San Marin Drive
Novato, CA 94945-0002

INVOICE

Terms: Net 30 Days

Dear Applicant:
The payment of this invoice is a condition of your hazardous material permit. Non-payment will result in the revocation of your permit. Remittance of your fee is necessary at this time. The fee for this permit has been calculated as follows:

Program	Selection	Number of Tanks	Hours	Fee
HazMat Business Plan	34			$3552.50
Aboveground Storage Tank	10,000 to 99,999 gallons	5	N/A	$1,500.00
California Accidental Release Plan (CalARP)	No		N/A	$0.00
HazWaste Generator				$423.50
Hazardous Waste Treatment	Not Applicable		N/A	$0.00
Underground Storage Tank	Not Applicable	0	N/A	$0.00
Uniform Fire Code	No		N/A	$0.00
			Sub Total Fees:	$2,277.50
			State Surcharge:	$35.00
			State Surcharge each Underground Storage Tank:	$0.00
			State Surcharge CalARP:	$0.00
			State Surcharge APSA:	$26.00
			TOTAL:	$2,338.50
			Amount Previously Unpaid:	$0.00
			Amount Paid:	$0.00
			TOTAL AMOUNT DUE:	$2,338.50

If inspections of this project were conducted, they are shown on separate enclosures. This fee is due and payable upon receipt. Please indicate the permit number on your check. Make check payable to County of Marin - Central Collections and remit to:

County of Marin - Central Collections (415) 473-7555
P.O. Box 4220, San Rafael, CA 94913-4220
centralcollections@marincounty.org

County of Marin-Department of Public Works
FACILITY INFORMATION

BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID # (Agency Use Only)	21 000 60031 Y	1	EPA ID # (Hazardous Waste Only) 2
BUSINESS NAME (Same as Facility Name of DBA-Doing Business As)			3
BUSINESS SITE ADDRESS	Fireman's Fund Insurance Agency 777 San Marin Dr.		103
BUSINESS SITE CITY	Novato	104	CA ZIP CODE 94945 105

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page.

Does your facility...			If Yes, please complete these pages of the UPCF....
A. HAZARDOUS MATERIALS Have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	☒ YES	☐ NO	4	HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
B. REGULATED SUBSTANCES Have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	☐ YES	☒ NO	4a	Coordinate with your local agency responsible for CalARP.
C. UNDERGROUND STORAGE TANKS (USTs) Own or operate underground storage tanks?	☐ YES	☒ NO	5	UST FACILITY (Formerly SWRCB Form A) UST TANK (one page per tank) (Formerly Form B)
D. ABOVE GROUND PETROLEUM STORAGE Own or operate ASTs above these thresholds: Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.	☒ YES	☐ NO	8	NO FORM REQUIRED TO CUPAs
E. HAZARDOUS WASTE Generate hazardous waste?	☒ YES	☐ NO	9	EPA ID NUMBER – provide at the top of this page
Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	☐ YES	☒ NO	10	RECYCLABLE MATERIALS REPORT (one per recycler)
Treat hazardous waste on-site?	☐ YES	☒ NO	11	ON-SITE HAZARDOUS WASTE TREATMENT – FACILITY ON-SITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit)
Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	☐ YES	☒ NO	12	CERTIFICATION OF FINANCIAL ASSURANCE
Consolidate hazardous waste generated at a remote site?	☐ YES	☒ NO	13	REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION
Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	☐ YES	☒ NO	14	HAZARDOUS WASTE TANK CLOSURE CERTIFICATION
Generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	☐ YES	☒ NO	14a	Obtain federal EPA ID Number, file Biennial Report (EPA Form 8700-13A/B), and satisfy requirements for RCRA Large Quantity Generator.
Household Hazardous Waste (HHW) Collection site?	☐ YES	☒ NO	14b	See CUPA for required forms.

15

F. LOCAL REQUIREMENTS

(You may also be required to provide additional information by your CUPA or local agency.)

Hazardous Materials Business Plan - List of Chemicals

Permit No 60-0314 **Facility:** Fireman's Fund Insurance Co.

Address: 777 San Marin Dr., Novato

Common Name	Chemical Name	Maximum Daily Amt	Units	Physical State	Largest Container	Grid No
Cummins Premium diesel oil 15W-40	Petroleum (Lubrication Oil)	19	GAL		35	S side of Bldg 1
Diesel #2	Diesel Fuel	~~2625~~	GAL	Liquid	200	S Side of Bldg 1
Diesel Fuel #2	Diesel Fuel	~~2625~~	GAL	Liquid	25	Center Roof Bldg 1
Diesel Fuel #2	Diesel Fuel	~~2625~~	GAL	Liquid	2,000	AST NE side bldg 1
Diesel Fuel #2	Diesel Fuel	~~2625~~	GAL	Liquid	200	N Penthouse area bldg 2
Diesel fuel #2	Diesel Fuel	~~2625~~	GAL	Liquid	200	S Penthouse area Bldg 3
Safety Kleen 105 Solvent	hydrocarbon solvent	7	GAL	Liquid	7	S Side Bldg 1
Sanatox 2080	Bromo,chloro-5,5dimethylhydantion	100	LBS	Solid	50	S Penthouse area Bldg 3
Sanatox 2080	Bromo,chloro-5,5dimethylhydantoin	100	LBS	Solid	50	S Penthouse area Bldg 2

Below Threshold

Below Below Below Threshold

COUNTY OF MARIN

Certified Unified Program Agency
County of Marin – Waste Management Division
P.O. Box 4186, San Rafael, CA 94913-4186
899 Northgate Drive, Suite 100, San Rafael, CA 94903
PHONE: (415) 473-6647 FAX: (415) 473-2391
www.marincounty.org/depts/pw/main/wastemanagement.cfm

ABOVEGROUND PETROLEUM STORAGE INSPECTION FORM

DATE: 4/19/13	PERMIT#: 600314	FACILITY NAME: Firemen's Fund Insurance Company
INSPECTOR: C Mobley		FACILITY ADDRESS: 777 San Marin Dr Novato
INSPECTION TYPE: ROUTINE ☑ RE-INSPECTION ☐		
Class I, Class II, Minor **Violations**: Yes ☐ No ☑ If yes, see Notice-To-Comply or Notice of Violation		CONSENT NAME & TITLE: Don Barr Ass Fac Mgr

RECORDS REVIEW

Pursuant to HSC 25270.4.5(a), 25270.5 & 25270.12(a)

Yes	No	N/A	
☑	☐	☐	Facility has SPCC plan (40 CFR 112.3)
☐	☐	☐	Facility has reviewed or amended SPCC (40 CFR 112.5(a)(d))
☑	☐	☐	SPCC available on site (40 CFR 112.3(e))
☐	☐	☑	Facility has reported spills 25270.8 (40 CFR 112.4)
☑	☐	☐	Tank facility statement submitted /business plan updated annually HSC 25270.6(a)(1) or (2)
☑	☐	☐	APSA fees submitted to CUPA HSC 25270.6(b)
☑	☐	☐	Inspections & tests conducted in accordance with written procedures (40 CFR 112.7(e))
☑	☐	☐	Facility maintains records of inspections, tests and/or procedures (40 CFR 112.7(e))
☑	☐	☐	Record of inspections or tests signed by supervisor or inspector (40 CFR 112.7(e))

GENERAL SPCC REQUIREMENTS

Pursuant to HSC 25270.4.5(a), 25270.5 & 25270.12 (a)

Yes	No	N/A	
☑	☐	☐	Corrosion protection provided (CFR 112.8(c)(4),(c)(5),(d)(1))
☑	☐	☐	Containers/Tanks compatible with material stored (CFR 112.8(c)(1))
☐	☐	☑	SPCC Plan changes or amendments implemented within 6 months (CFR 112.5 (a),(d))
☑	☐	☐	Oil-handling personnel trained in operation & maintenance of equipment to prevent discharges (CFR 112.7(f))
☑	☐	☐	Spill prevention briefings conducted annually & documented (CFR 112.7(f)(3))
☐	☐	☑	Oil contingency plan prepared or control/removal commitments provided (CFR 112.7(d))

SPCC PLAN ELEMENTS

Pursuant to 25270.4.5(a), 25270.12(a)

Yes	No	N/A	
☑	☐	☐	Self-certified for Tier I or II Qualified Facility (CFR 112.6(a)(1), (b)(1))
☐	☐	☑	Certified by a Professional Engineer (CFR 112.3(d) & 112.6(b)(1))
☑	☐	☐	Documentation of 5-year review & evaluation of SPCC plan (CFR 112.5(b))
☑	☐	☐	SPCC Plan has appropriate training program (CFR 112.7(f))
☐	☐	☑	SPCC Plan has been amended within 6 months of changes and certified for technical amendments (CFR 112.5(a), 112.6(a)(2),(b)(2))
☑	☐	☐	Management has authorized the resources to implement SPCC (CFR 112.7, 112.6(a)(1)(vii))
☑	☐	☐	Accurate diagrams with locations & contents of regulated containers, transfer stations & connecting pipes (CFR 112.7(a)(3))
☑	☐	☐	Accurate inventory of types of oil and storage capacity for each container (CFR 112.7(a)(3))
☑	☐	☐	SPCC includes discharge prevention measures & procedures for routine handling (CFR 112.7(a)(3))
☑	☐	☐	SPCC includes countermeasures for discovery, response & clean up (CFR 112.7(a)(3))
☑	☐	☐	Contact numbers and notification list is correct and accurate (CFR 112.7(a)(3))

FACILITY INSPECTIONS

Pursuant to HSC 25270.4.5, 25270.5 & 25270.12(a)

Yes	No	N/A	
☑	☐	☐	Facility security adequate (CFR 112.7(g))
☑	☐	☐	Clean-up materials readily available (CFR 112.7(c))
☑	☐	☐	Containers/tanks are in good condition (CFR 112.8(c))
☑	☐	☐	Overfill protection procedures/devices properly maintained & operating (CFR 112.8(c)(8))
☐	☐	☑	Portable/mobile containers positioned to prevent release (CFR 112.8(c)(11)
☐	☐	☑	Loading/unloading rack drains to containment (CFR 112.7(h))
☑	☐	☐	Facility drainage properly functioning, operating, engineered (CFR 112.8(b)(c))
☑	☐	☐	Facility has appropriate containment or diversionary structures to prevent discharge (CFR 112.7(c), 112.8(a))
☑	☐	☐	Secondary containment adequately contains capacity of largest container plus precipitation (CFR 112.8(c))
☑	☐	☐	Secondary containment free of oil (CFR 112.8(c)(10))
☐	☐	☑	Secondary containment valves are closed (CFR 112.8))
☑	☐	☐	SPCC Plan elements implemented (CFR 112.3)

Comments:

Inspector's Name: C Mobley	**Facility Rep's Name:** Don Barr
Inspector's Signature:	**Facility Rep's Signature:**

RECEIVED
DEC 17 2002
DPW
Waste Management

SAN MARIN
EMERGENCY RESPONSE
AND
CONTINGENCY PLAN

FIREMAN'S FUND INSURANCE COMPANY
777 SAN MARIN DRIVE
NOVATO, CA 94998

OCTOBER 2002

SAN MARIN
EMERGENCY RESPONSE
AND
CONTINGENCY PLAN

5 cc

FIREMAN'S FUND INSURANCE COMPANY
777 SAN MARIN DRIVE
NOVATO, CA 94998

FEBRUARY 2010

COUNTY OF MARIN
WASTE MANAGEMENT
10 N. San Pedro Rd., Suite 1022
San Rafael, CA 94903-4155

FIREMAN'S FUND
777 SAN MARIN DR.
NOVATO, 94998

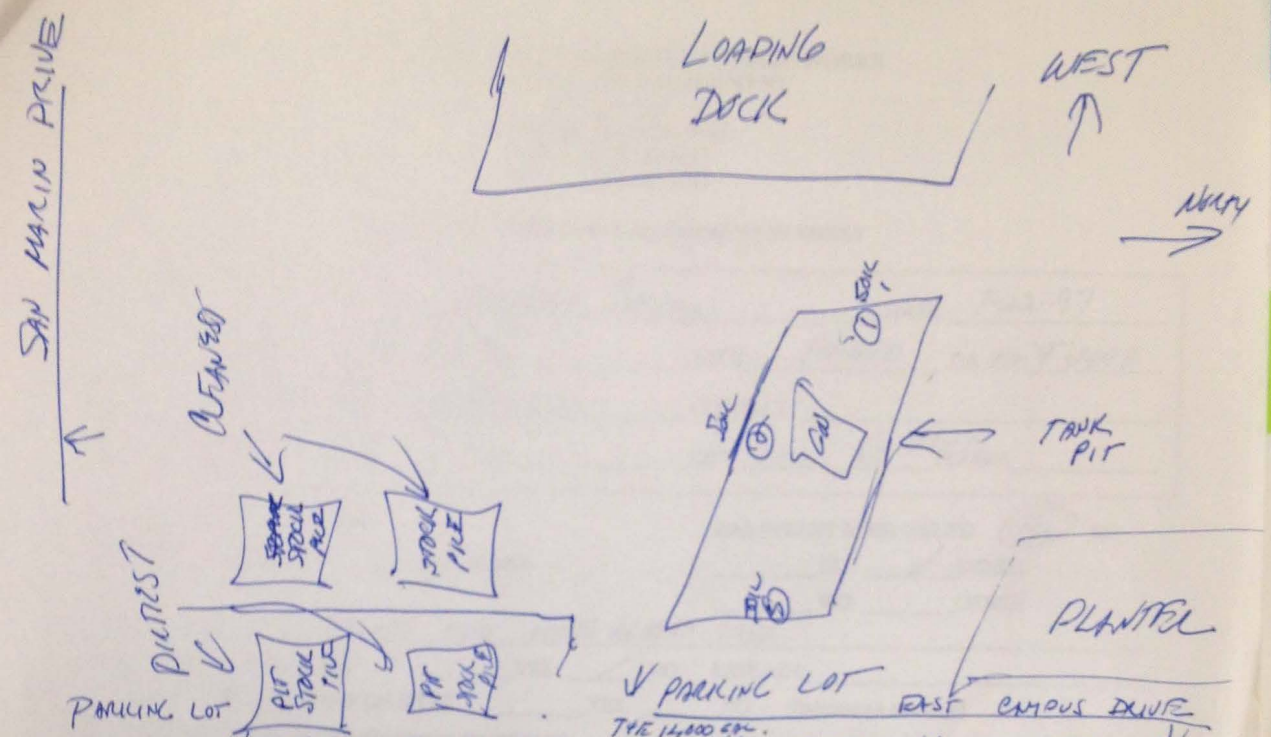
PICTURES

FIREMAN'S FUND

777 SAN MARIN DR.

NOVATO,

FIREMAN'S FUND
777 SAN MARIN DRIVE
NOVATO.



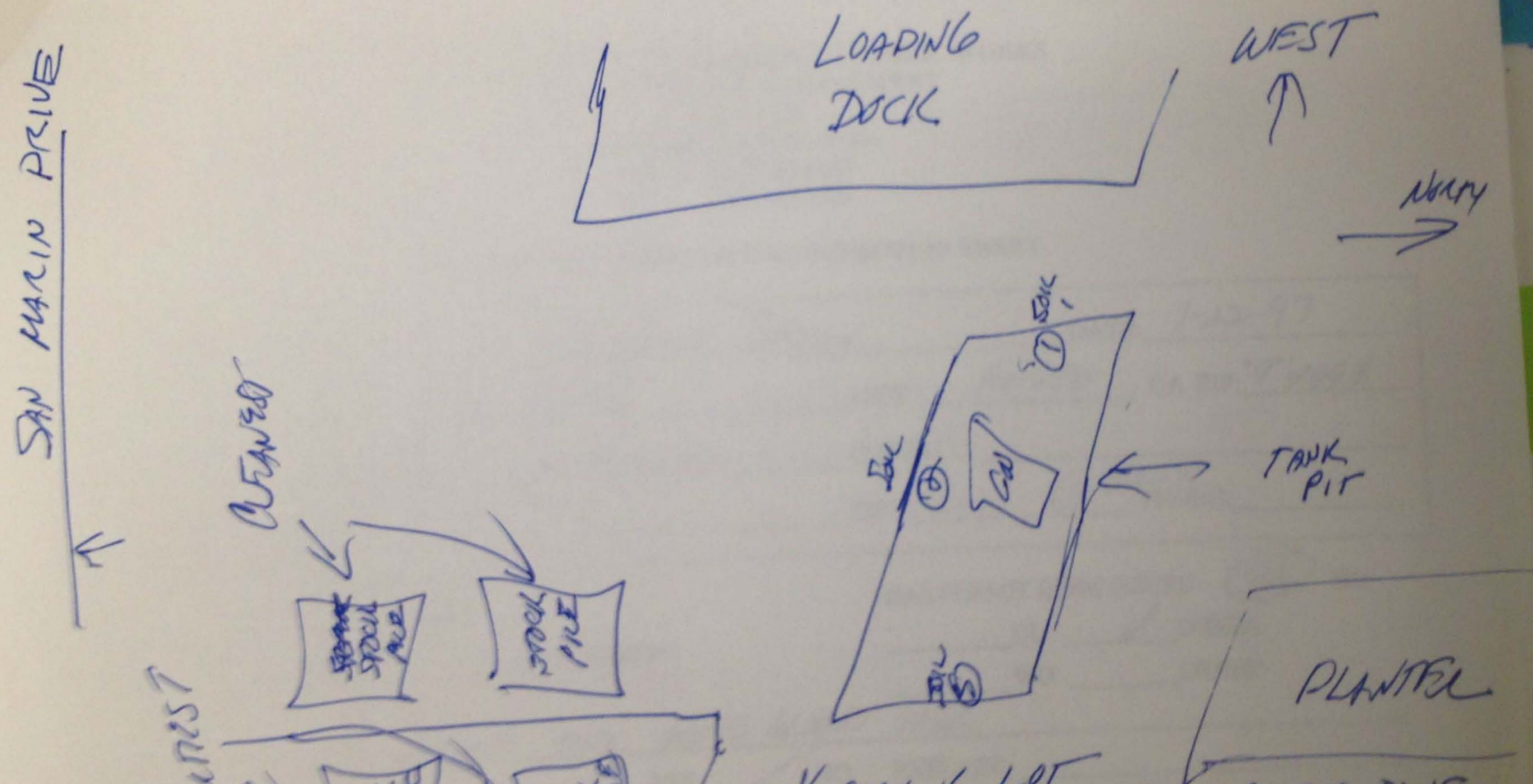
COMMENTS: WHILE TRYING TO REMOVE TANK THE TANK CRACKED THE 14,000 GAL. SEE PICTURES. PRODUCT WAS SEEN FLOATING IN THE HOLE WITH THE TANK. I WAS TOLD 1000 GAL WAS PUMPED FROM THE HOLE 7-23-97 OF WHICH ≈800 GALLONS WAS PRODUCT. THEY HAD TO BREAK THE TANK UP TO HAUL OFF-SITE ON 7-22-97. TOOK 3 SIDE WALL SAMPLES AN ONE GW SAMPLE 7-23-97. SIDEWALL SAMPLES WEST 165 ppm SOUTH NO, EAST 65 PPM. GW SHOWED @ 1.2 MILLION PPM (?). 7-25-97 PUMPED 3000 gallon of ground WATER WITH DIESEL PRODUCT FLOATING ON TOP. TRIED TO REMOVE CONTAMINATED GRAVEL. HAD TO BACKFILL ON EAST SIDE SINCE WATER LINE FOR THE FIRE SPRINKLER SYSTEM WAS EXPOSED AND SAGGING. DUE TO LAST IMPACT ON GROUND WATER, REGIONAL BOARD WILL HANDLE.

UNAUTHORIZED RELEASE FROM HARDING LAWSON.

SAMPLES TAKEN BY TED GIESING HARDING LAWSON

Harding Lawson Associates
A Subsidiary of Harding Associates
HLA
Ted A. Giesing
Staff Engineer
105 Digital Dr., Novato, CA 94949
P.O. Box 6107, Novato, CA 94948
415/884-3110 • Fax: 415/884-3300
Engineering and Environmental Services

COUNTY OF MARIN



COMMENTS: WHILE TRYING TO REMOVE THE 14,000 GAL. TANK THE TANK CRACKED SEE PICTURES. PRODUCT WAS SEEN FLOATING IN THE HOLE WITH THE TANK. I WAS TOLD 1000 GAL WAS PUMPED FROM THE HOLE 7-23-99 [illegible] WAS PRODUCT. THEY HAD TO BLOCK THE TANK [illegible] SAMPLES

FILE

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION : FORM A

COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM
- [ ] 1. NEW PERMIT
- [ ] 2. INTERIM PERMIT
- [X] 3. RENEWAL PERMIT
- [ ] 4. AMENDED PERMIT
- [ ] 5. CHANGE OF INFORMATION
- [ ] 6. TEMPORARY SITE CLOSURE
- [ ] 7. PERMANENTLY CLOSED SITE

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME: Fireman's Fund Insurance Co.	NAME OF OPERATOR: Fireman's Fund Insurance Co.	
ADDRESS: 777 San Marin Drive	NEAREST CROSS STREET: Back Campus Dr.	PARCEL # (OPTIONAL)
CITY NAME: Novato	STATE: CA / ZIP CODE: 94998	SITE PHONE # WITH AREA CODE: (415) 899-3000

✓ BOX TO INDICATE: [X] CORPORATION [ ] INDIVIDUAL [ ] PARTNERSHIP [ ] LOCAL AGENCY [ ] COUNTY AGENCY [ ] STATE AGENCY [ ] FEDERAL AGENCY

* If owner of UST is a public agency, complete the following: name of Department or Division, section or office where operating the UST: _____

TYPE OF BUSINESS: [ ] 1. GAS STATION [ ] 2. DISTRIBUTOR [ ] 3. FARM [ ] 4. PROCESSOR [X] 5. OTHER	[ ] 6. INDIAN RESERVATION OR TRUST LAND	# OF TANKS AT SITE: 1	E.P.A. ID # (optional)

EMERGENCY CONTACT PERSON (PRIMARY)		EMERGENCY CONTACT PERSON (SECONDARY) : optional	
DAYS: NAME (LAST, FIRST): Clark, Jack	PHONE # WITH AREA CODE: (415) 899-2780	DAYS: NAME (LAST, FIRST): Clover, Pat	PHONE # WITH AREA CODE: (415) 899-3369
NIGHTS: NAME (LAST, FIRST): Clark, Jack	PHONE # WITH AREA CODE: (415) 892-4700	NIGHTS: NAME (LAST, FIRST): Clover, Pat	PHONE # WITH AREA CODE: (707) 545-9776

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME: 777 San Marin Associates, L.P	CARE OF ADDRESS INFORMATION: N/A	
MAILING OR STREET ADDRESS: 700 Larkspur Landing Circle, Suite 255	✓ BOX TO INDICATE: [ ] INDIVIDUAL [ ] REVENUE [ ] LOCAL AGENCY [ ] STATE AGENCY [ ] CORPORATION [X] PARTNERSHIP [ ] COUNTY AGENCY [ ] FEDERAL AGENCY	
CITY NAME: Larkspur	STATE: CA / ZIP CODE: 94939	PHONE # WITH AREA CODE: (415) 925-3930

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER: 777 San Marin Associates, L.P.	CARE OF ADDRESS INFORMATION: N/A	
MAILING OR STREET ADDRESS: 700 Larkspur Landing Circle, Suite 255	✓ BOX TO INDICATE: [ ] INDIVIDUAL [ ] REVENUE [ ] LOCAL AGENCY [ ] STATE AGENCY [ ] CORPORATION [X] PARTNERSHIP [ ] COUNTY AGENCY [ ] FEDERAL AGENCY	
CITY NAME: Larkspur	STATE: CA / ZIP CODE: 94939	PHONE # WITH AREA CODE: (415) 925-3930

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY (TK) HQ 4 4- [ ][ ][ ][ ][ ][ ][ ] Exempt per Board of Equalization

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) - IDENTIFY THE METHOD(S) USED

✓ Box to indicate
- [X] 1. SELF-INSURED
- [ ] 2. GUARANTEE
- [ ] 3. INSURANCE
- [ ] 4. SURETY BOND
- [ ] 5. LETTER OF CREDIT
- [ ] 6. EXEMPTION
- [ ] 7. OTHER _____

VI. LEGAL NOTIFICATION AND BILLING ADDRESS

Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. [ ] II. [X] III. [ ]

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

OWNER'S NAME (PRINTED & SIGNED): Eli Shemi	OWNER'S TITLE:	DATE MONTH/DAY/YEAR: 07/15/95

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	FACILITY #
21	9[illegible]	0153[illegible]319

LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL	SUPERVISOR DISTRICT CODE - OPTIONAL

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.
OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

YES [X] NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED ? YES [X] NO

CONTAMINATION SITE REPORT

REPORT DATE 0 8 1 2 9 7

CASE #

FOR LOCAL AGENCY USE ONLY

I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.

SIGNED Barbara Zitt 8-21-97

NAME OF INDIVIDUAL FILING REPORT Patrick L. Clover

PHONE

REPRESENTING

Office Copy

UNDERGROUND TANK PERMIT TO OPERATE

Permit No: 2057

MARIN COUNTY OFFICE OF WASTE MANAGEMENT
10 N. San Pedro Rd., Suite 1022, San Rafael, CA 94903-4155
(415) 499-6647

Permitted Facility Location :

Fireman's Fund Insurance Co.
777 San Marin Drive
Novato, CA 94947

Mailing Information :

Tad Godwin
Fireman's Fund Insurance Co.
777 San Marin Drive
Novato, CA 94947

Tank ID No.	Tank Volume	Contents	System Type	Monitoring Type
21 998 053439 000001	12,000	diesel	suction	LTT

Date of Issuance: APRIL 30, 1996

Date of Expiration: April 30, 1997

Marin County UST Permit Fee: $ 156.00

State Surcharge Fee: ($56.00 per tank) $ 56

Fee Paid: $ 212

WASTE MGMT.

...due and payable. Return the TOP portion of this form with your payment by April 30, 1997 ...check or money order payable to: "COUNTY OF MARIN".

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER

FIREMAN'S FUND INSURANCE (T0604100050) - (MAP)

SIGN UP FOR EMAIL ALERTS

777 SAN MARIN DR
NOVATO, CA 94947
MARIN COUNTY
LUST CLEANUP SITE
PRINTABLE CASE SUMMARY / CSM REPORT

CLEANUP OVERSIGHT AGENCIES
SAN FRANCISCO BAY RWQCB (REGION 2) *(LEAD)* - *CASE #: 21-0051*
CASEWORKER: *JOHN JANG*
MARIN COUNTY - *CASE #: 21-0051*
CASEWORKER: *UNK*

Regulatory Profile

CLEANUP STATUS - DEFINITIONS

COMPLETED - CASE CLOSED AS OF 1/22/1998 - CLEANUP STATUS HISTORY

POTENTIAL CONTAMINANTS OF CONCERN
DIESEL

POTENTIAL MEDIA AFFECTED
OTHER GROUNDWATER (USES OTHER THAN DRINKING WATER)

FILE LOCATION

BENEFICIAL USE
NONE SPECIFIED

DWR GROUNDWATER SUB-BASIN NAME
Novato Valley (2-30)

RB WATERSHED NAME
San Pablo - Petaluma River (206.30)

Site History

No site history available

* DENOTES A SUBMITTAL WAS AUTO-RECEIVED

Site Maps and Boring Logs (GEO_MAP and GEO_BORE)

NO SITE MAP SUBMITTALS FOUND FOR THIS FACILITY.

Site Documents

TITLE	TYPE	SUBMITTED BY	DOCUMENT DATE	SIZE
CASE CLOSURE LETTER 1-22-1998	LETTER	JAMES PATRICK KIRWIN (REGULATOR)	2/23/2007	44 KB
TRANSMITTAL OF CASE CLOSURE LETTER 1-22-1998	LETTER	JAMES PATRICK KIRWIN (REGULATOR)	2/23/2007	45 KB
WORK PLAN APPROVAL LETTER 11-24-1997	REPORT	JAMES PATRICK KIRWIN (REGULATOR)	2/23/2007	92 KB
REQUEST FOR TECHNICAL REPORT 10-21-1997	REPORT	JAMES PATRICK KIRWIN (REGULATOR)	2/23/2007	111 KB

Monitoring Reports

NO MONITORING REPORT SUBMITTALS FOUND FOR THIS FACILITY.

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0.40625 seconds

Cal/EPA

San Francisco
Bay Regional
Water Quality
Control Board

2101 Webster St. #500
Oakland, CA
94612
(510) 286-1255
FAX (510) 286-1380

Pete Wilson
Governor

Date: October 21, 1997
UST File No. 21-0051 (JMJ)

Mr. Patrick Clover
Fireman's Fund Insurance Company
777 San Marin Drive
Novato, CA 94998

Dear Mr. Clover:

SUBJECT: Fireman's Fund Insurance Company, 777 San Marin Drive, Novato, Marin County - Request for Technical Report

Regional Board staff have received and reviewed the Underground Storage Tank (UST) Closure Report by Harding Lawson Associates (HLA), dated August 6, 1997. This report indicates that diesel fuel was released to the environment, possibly during the removal of a 12,000 gallon diesel UST on July 22, 1997. Soil samples collected on July 23, 1997 contained up to 11000 ppm of TPH-d and a groundwater sample collected from the UST pit contained 5,600,000 ppb of TPH-d. Subsequently, 2500 gallons of groundwater were pumped from the excavation and 300 cubic yards of soil were excavated and removed. It is unknown whether these remedial activities removed most of the pollution since no soil or groundwater samples were collected afterward. Additional investigation is warranted to determine how much pollution remains at the site and the extent of any soil and groundwater pollution.

As the owner/former owner and/or operator/former operator of the subject site, you are requested to submit a technical report under the authority of Section 13267 of the California Water Code. This technical report shall contain the following: (1) A workplan to define the extent of any remaining soil and groundwater pollution; (2) Information on the nearest surface water body to the subject site (name of the surface water body and distance and direction from the former tank area); and (3) Information on all domestic wells within 1000 feet of the former tank area (distances and directions from the former tank area).

The workplan must include an implementation schedule for actions to be completed, and a schedule for submittal of a report documenting the results of the site investigation proposed in the workplan. If necessary, this report is to include recommendations for additional work needed to adequately define the soil and/or groundwater pollution and/or additional work needed to adequately remediate the site, as well as a proposed implementation schedule for the additional

work. You should be aware that previous investigations have been conducted at this site and the information from these prior investigations may be of use in defining the scope of work for the new investigations.

The requested technical report containing the above information is due in this office no later than November 20, 1997. You should be aware that this is a formal request for a technical report pursuant to California Water Code Section 13267. Failure to respond or a late response to this request may subject you to civil liability imposed by the Board to a maximum amount of $1000 per day. Any extensions of the time deadlines set forth above must be confirmed in writing by Board staff.

All workplans and reports are to be submitted to this Regional Board, with a copy sent to Mr. Tim Underwood, Marin County Office of Waste Management. Include the Regional Board file number shown in the heading of this letter, and allow at least three weeks from the date of submittal of any report/workplan for our review and approval.

Enclosed for your information is a letter dated September 25, 1995 that discusses your option to request designation of a single agency to oversee your underground storage tank (UST) leak investigation/cleanup. Currently, the Regional Water Quality Control Board (RWQCB) is the agency overseeing your investigations/cleanups. If you wish to have the RWQCB continue its oversight activities, you need not file an application.

If you have questions regarding this letter, please call John Jang of my staff at (510) 286-0554.

Sincerely,

Loretta Barsamian
Executive Officer

Steve Morse
Chief, Toxics Cleanup Division

Enclosure: September 25, 1995 letter

cc: Mr. Timothy Underwood, Marin Co. Office of Waste Management
Ms. Cheryl Gordon, SWRCB UST Cleanup Fund Unit

Mr. Michael Ware
Harding Lawson Associates
90 Digital Drive
Novato, CA 94949

Cal/EPA

San Francisco
Bay Regional
Water Quality
Control Board

2101 Webster St. #500
Oakland, CA
94612
(510) 286-1255
FAX (510) 286-1380

Pete Wilson
Governor

DATE: November 24, 1997

UST File No. 21-0051 (JMJ)

Mr. Patrick Clover
Fireman's Fund Insurance Company
777 San Marin Drive
Novato, CA 94998

Dear Mr. Clover:

SUBJECT: Approval of Harding Lawson Associates' (HLA's) Modified November 10, 1997 Workplan for Subsurface Soil and Groundwater Investigation for Fireman's Fund Insurance Company, 777 San Marin Drive, Novato, Marin County

Regional Board staff have reviewed the subject workplan. The workplan proposes to install four borings around the former diesel tank area. Because there are three monitoring wells in the area, groundwater flow direction has already been determined. After speaking to Mr. William Feller of HLA, it was agreed that one boring was adequate to determine whether the groundwater has been impacted by release(s) from the former diesel tank. The workplan proposes to begin the field work within three weeks following approval of the workplan and to submit a site investigation report within six weeks following the completion of field work. Regional Board staff hereby grant approval for the implementation of the workplan as modified and expects you to meet the deadlines you proposed.

As the owner/former owner and/or operator/former operator of the subject site, you are required to submit the a technical report pursuant to Section 13267 of the California Water Code. The required technical report will document the implementation of the subject workplan as modified. If necessary, the technical report shall include recommendations for additional investigations/cleanup along with an implementation schedule.

All workplans, reports, and correspondence must be submitted to this Regional Board, with a copy sent to Mr. Tim Underwood (Marin County Office of Waste Management). Include the Regional Board file number shown in the heading of this letter, and allow for at

least three weeks from the date of submittal for our review and approval.

The required technical report is due in this office by January 26, 1998. You should be aware that this is a formal request for a technical report pursuant to California Water Code Section 13267. Failure to respond or a late response to this request may subject you to civil liability imposed by the Board to a maximum amount of $1000 per day. Any extensions of the time deadlines set forth above must be confirmed in writing by Board staff.

If you have any questions regarding this letter, please call John Jang of my staff at (510) 286-0554.

Sincerely,

Loretta Barsamian
Executive Officer

Steve Morse
Chief, Toxics Cleanup Division

cc: Cheryl Gordon, SWRCB UST Cleanup Fund Unit
Tim Underwood, Marin Co. Office of Waste Management

Mr. William Feller
Harding Lawson Asso.
90 Digital Drive
Novato, CA 94949

Cal/EPA

San Francisco
Bay Regional
Water Quality
Control Board

2101 Webster St. #500
Oakland, CA
94612
(510) 286-1255
FAX (510) 286-1380

Pete Wilson
Governor

Date: January 22, 1998

UST File Nos. 21-0051 (JMJ)
2158.12

Mr. Patrick Clover
Fireman's Fund Insurance Company
777 San Marin Drive
Novato, CA 94998

Dear Mr. Clover:

SUBJECT: Transmittal of Case Closure Letter and Site Summary for Fireman's Fund Insurance Company, 777 San Marin Drive, Novato, Marin County, UST Case No. 21-0051

Attached please find the uniform underground storage tank closure letter and the site summary form for the subject site. You are advised to decommission any existing monitoring wells at the subject site which you will no longer be using in accordance with local regulations.

Please contact John Jang of my staff at (510) 286-0554 if you have any questions regarding this matter.

Sincerely,

Loretta Barsamian
Executive Officer

Steve Morse
Chief, Toxics Cleanup Division

Enclosures: Closure Letter
Site Summary Form

cc w/o enc.: Dave Deaner, SWRCB UST Cleanup Fund Unit
Allen Patton, SWRCB

cc w/ enc.: Tim Underwood, Marin Co. Office of Waste Management

Mr. William Feller
Harding Lawson Associates
90 Digital Drive
Novato, CA 94949

Cal/EPA

San Francisco
Bay Regional
Water Quality
Control Board

2101 Webster St. #500
Oakland, CA
94612
(510) 286-1255
FAX (510) 286-1380

Pete Wilson
Governor

Date: January 22, 1998
UST File Nos. 21-0051 (JMJ)
2158.12

Mr. Patrick Clover
Fireman's Fund Insurance Company
777 San Marin Drive
Novato, CA 94998

Dear Mr. Clover:

SUBJECT: Underground Storage Tank (UST) Case Closure for Fireman's Fund Insurance Company, 777 San Marin Drive, Novato, Marin County, UST Case No. 21-0051

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

for Loretta Barsamian
Executive Officer

APPENDIX E
RECORDS OF COMMUNICATION

MacLean, Tanya

From: publicrecords@baaqmd.gov
Sent: Friday, May 22, 2015 8:33 AM
To: MacLean, Tanya
Subject: Public Records Request Number. 2015-05-0239

Importance: High

Dear Tanya MacLean:

We have received your public records request of 5/22/2015 8:32:55 AM PST. We have assigned 2015-05-0239 as your Request Number in order to track your request. You requested the following:

Facility Information
Facility Street: 100 Wood Hollow Drive
Facility City: Novato
Facility State: CA
Facility Zipcode: 94947
Period Covered: All

Print Outs Requested

- Episode
- Permit Application
- Violation
- Complaint

Other Requests: Not Recorded

Within 10 days we will determine whether you have requested disclosable records. If we need more time to make that determination, we will let you know within 10 days. If your request is unclear we will also contact you within the 10 days.

If you have requested disclosable records, and your request is simple, we may respond within 10 days by providingyou with the records requested or with our finding tht we have no records. If you have requested disclosable records and your request is more complicated, we will notify you promptly of our determination and provide your with our estimate of when the records will be made available.

If you have requested records that are exempt from disclosure, we will explain why the records are being withheld.

You can follow our progress in responding to your request by using the PRA Login webpage.

Username: Tanya.MacLean@tetratech.com
Password: desdemona

Sincerely,

Rochelle Henderson Reed
Public Records Section
BAAQMD

MacLean, Tanya

From: MacLean, Tanya
Sent: Friday, May 22, 2015 8:38 AM
To: 'PubReqAct@dtsc.ca.gov'
Subject: Records Request
Attachments: (2015-05-22) DTSC Berkeley Req.pdf

Attached please find a records request for a property in Novato, CA. Please let me know if you have any issues opening the request or if you have any questions.

Thank you in advance for your time and help,
Tanya

Tanya MacLean
Due Diligence Scientist
Tetra Tech, Inc.
17885 Von Karman Avenue, Suite 500
Irvine, CA 92614
Direct #: 949.809.5080 | Main #: 949.809.5000 | Main Fax #: 949.809.5010

17885 Von Karman Avenue, Suite 500
Irvine, CA 92614
Direct: (949) 809-5080
Fax: (949) 809-5010

May 22, 2015

California Environmental Protection Agency
Department of Toxic Substances Control
700 Heinz Avenue, Suite 200
Berkeley, CA 94710-2721

Phone: (510) 540-2122
Fax: (510) 540-3801
berkeleyfileroom@dtsc.ca.gov

Re: Request to Review / Obtain California EPA DTSC Files

Records Department:

We are representing a client with interests in a property located in the City of Novato, California. The concern is for knowledge of hazardous materials investigations and regulatory status of the parcel. This letter is intended as a formal request for records that the California EPA, DTSC, may have for the following property addresses:

- 100 Wood Hollow Drive, Novato, CA 94945

We are also concerned with any activity and use limitations [such as institutional controls (e.g. deed restrictions, restrictive covenants, restrictive easements, or restrictive zoning) or engineering controls (e.g. capping, slurry walls, or point of use water treatment)] or environmental liens associated with the property.

Please contact me if no records are found, or so I can arrange to come in and review the files. If there are any questions regarding this request, please call me directly at 949.809.5080. Thank you for your time and help.

Sincerely,
Tetra Tech, Inc.

Tanya MacLean

Tanya MacLean
tanya.maclean@tetratech.com

MacLean, Tanya

From: MacLean, Tanya
Sent: Friday, May 22, 2015 8:38 AM
To: 'berkeleyfileroom@dtsc.ca.gov'
Subject: Records Request
Attachments: (2015-05-22) DTSC Berkeley Req.pdf

Attached please find a records request for a property in Novato, CA. Please let me know if you have any issues opening the request or if you have any questions.

Thank you in advance for your time and help,
Tanya

Tanya MacLean
Due Diligence Scientist
Tetra Tech, Inc.
17885 Von Karman Avenue, Suite 500
Irvine, CA 92614
Direct #: 949.809.5080 | Main #: 949.809.5000 | Main Fax #: 949.809.5010

17885 Von Karman Avenue, Suite 500
Irvine, CA 92614
Direct: (949) 809-5080
Fax: (949) 809-5010

May 22, 2015

California Environmental Protection Agency
Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, CA 95826-3200

Phone: (916) 255-3545
Fax: (916) 255-6447
PubReqAct@dtsc.ca.gov

Re: Request to Review / Obtain California EPA DTSC Files

Records Department:

We are representing a client with interests in a property located in the City of Novato, California. The concern is for knowledge of hazardous materials investigations and regulatory status of the parcel. This letter is intended as a formal request for records that the California EPA, DTSC, may have for the following property address:

- 100 Wood Hollow Drive, Novato, CA 94945

We are also concerned with any activity and use limitations [such as institutional controls (e.g. deed restrictions, restrictive covenants, restrictive easements, or restrictive zoning) or engineering controls (e.g. capping, slurry walls, or point of use water treatment)] or environmental liens associated with the property.

Please contact me if no records are found, or so I can arrange to come in and review the files. If there are any questions regarding this request, please call me directly at 949.809.5080. Thank you for your time and help.

Sincerely,
Tetra Tech, Inc.

Tanya MacLean

Tanya MacLean
tanya.maclean@tetratech.com

17885 Von Karman Avenue, Suite 500
Irvine, CA 92614
Direct #: 949.809.5080 | Main #: 949.809.5000 | Main Fax #: 949.809.5010

May 22, 2015

Marin County Community Development Agency
Environmental Health Services
3501 Civic Center Drive, Suite 236, San Rafael, CA 94903
Phone: (415) 473-6269
Fax: (415) 473-4120

Re: Request to Review Environmental Health Services Department Files

Attn: Records Request

We are representing a client with interests in a property located in Novato, California. We are interested in obtaining copies of information pertaining to hazardous materials storage, use and disposal; compliance with the regulatory guidelines for hazardous materials management; inspection reports; hazardous materials emergency responses; site cleanup and mitigation; and related environmental issues. Please conduct a search for the property below for such information:

- 100 Wood Hollow Drive, Novato, CA 94945

We are also concerned with any activity and use limitations [such as institutional controls (e.g. deed restrictions, restrictive covenants, restrictive easements, or restrictive zoning) or engineering controls (e.g. capping, slurry walls, or point of use water treatment)] or environmental liens associated with the property.

Please contact us if no records are found, or so we can arrange to come in and review the files. If there are any questions regarding this request, please call me directly at 949.809.5080. Thank you for your time and help.

Sincerely,
Tetra Tech, Inc.

Tanya MacLean

Tanya MacLean
tanya.maclean@tetratech.com

17885 Von Karman Avenue, Suite 500
Irvine, CA 92614
Direct #: 949.809.5080 | Main #: 949.809.5000 | Main Fax #: 949.809.5010

May 22, 2015

Novato Fire Protection District
95 Rowland Way
Novato, California 94945
Tel: (415) 878-2690
Fax: (415) 878-2660

Re: Request to Review Richmond Fire Department Files

Attn: Records Request

We are representing a client with interests in a property located in Novato, California. We are interested in obtaining copies of information pertaining to hazardous materials storage, use and disposal; compliance with the regulatory guidelines for hazardous materials management; inspection reports; hazardous materials emergency responses; site cleanup and mitigation; and related environmental issues. Please conduct a search for the properties below for such information:

- 100 Wood Hollow Drive, Novato, CA 94945

We are also concerned with any activity and use limitations [such as institutional controls (e.g. deed restrictions, restrictive covenants, restrictive easements, or restrictive zoning) or engineering controls (e.g. capping, slurry walls, or point of use water treatment)] or environmental liens associated with the property.

Please contact us if no records are found, or so we can arrange to come in and review the files. If there are any questions regarding this request, please call me directly at 949.809.5080. Thank you for your time and help.

Sincerely,
Tetra Tech, Inc.

Tanya MacLean

Tanya MacLean
tanya.maclean@tetratech.com

MacLean, Tanya

From: MacLean, Tanya
Sent: Friday, May 22, 2015 8:38 AM
To: 'mwong@waterboards.ca.gov'
Subject: Records Request
Attachments: (2015-05-22) SFBRWQCB Req.pdf

Melinda:

Attached please find a records request for two properties in Novato, CA. Please let me know if you have any issues opening the request or if you have any questions.

Thank you in advance for your time and help,
Tanya

Tanya MacLean
Due Diligence Scientist
Tetra Tech, Inc.
17885 Von Karman Avenue, Suite 500
Irvine, CA 92614
Direct #: 949.809.5080 | Main #: 949.809.5000 | Main Fax #: 949.809.5010

17885 Von Karman Avenue, Suite 500
Irvine, CA 92614
Direct: (949) 809-5080
Fax: (949) 809-5010

May 22, 2015

San Francisco Bay RWQCB
1515 Clay Street, Suite 1400
Oakland, CA 94612

Phone: (510) 622-2423
Fax: (510) 622-2460
mwong@waterboards.ca.gov

Re: File Review Request

Melinda Wong:

I am conducting an environmental assessment in the City of Novato, California. Please conduct a file search (LUST, SLIC, and NDPES) for the following property:

- 100 Wood Hollow Drive, Novato, CA 94945
- 777 San Marin Drive (Fireman's Fund Insurance – Case # 21-0051), Novato, CA 94947

We are also concerned with any activity and use limitations [such as institutional controls (e.g. deed restrictions, restrictive covenants, restrictive easements, or restrictive zoning) or engineering controls (e.g. capping, slurry walls, or point of use water treatment)] or environmental liens associated with the property.

Please contact me if no records are found, or so I can arrange for Tetra Tech to come in and review the files. If there are any questions regarding this request, please call me directly at 949.809.5080. Thank you for your time and help.

Sincerely,
Tetra Tech, Inc.

Tanya MacLean

Tanya MacLean
tanya.maclean@tetratech.com

17885 Von Karman Avenue, Suite 500
Irvine, CA 92614
Direct #: 949.809.5080 | Main #: 949.809.5000 | Main Fax #: 949.809.5010

May 26, 2015

Marin County Community Development Agency
Environmental Health Services
3501 Civic Center Drive, Suite 236, San Rafael, CA 94903
Phone: (415) 473-6269
Fax: (415) 473-4120

Re: Request to Review Environmental Health Services Department Files

Attn: Records Request

We are representing a client with interests in a property located in Novato, California. We are interested in obtaining copies of information pertaining to hazardous materials storage, use and disposal; compliance with the regulatory guidelines for hazardous materials management; inspection reports; hazardous materials emergency responses; site cleanup and mitigation; and related environmental issues. Please conduct a search for the property below for such information:

- 777 San Marin Drive (Fireman's Fund Insurance – Case # 21-0051), Novato, CA 94947

We are also concerned with any activity and use limitations [such as institutional controls (e.g. deed restrictions, restrictive covenants, restrictive easements, or restrictive zoning) or engineering controls (e.g. capping, slurry walls, or point of use water treatment)] or environmental liens associated with the property.

Please contact us if no records are found, or so we can arrange to come in and review the files. If there are any questions regarding this request, please call me directly at 949.809.5080. Thank you for your time and help.

Sincerely,
Tetra Tech, Inc.

Tanya MacLean

Tanya MacLean
tanya.maclean@tetratech.com

COUNTY OF MARIN

Certified Unified Program Agency
County of Marin – Waste Management Division
P.O. Box 4186, San Rafael, CA 94913-4186
1600 Los Gamos Drive, Suite 210, San Rafael, CA 94903
PHONE: (415) 473-6647 FAX: (415) 473-2391
www.marincounty.org/depts/pw/divisions/waste-management

PLEASE NOTE: Department of Public Works, Waste Management Division's jurisdiction now encompasses all of Marin County CUPA business sites. Our office maintains files for current and closed sites. Please contact Melinda Wong at the California Regional Water Quality Control Board at (510) 622-2430 for closed files from City of San Rafael.

Please call, fax or e-mail me at mkennelly@marincounty.org to schedule a file review 48 hours in advance between the hours of:

- **M-F: 8:30 am – 11:30 am**
- **M-F 1:30 pm - 4:00 pm**

Photocopier is available for use @ $0.15 per copy. Payment by check or exact cash is required. Thank you in advance for not wearing perfume/cologne during your file review.

Please complete the following information for your file review(s)

Company/Agency: Tetra Tech

Name/phone number/e-mail: Steven Grod / 949-809-5076 / steven.grod@tetratech.com
Mark Duffy / 510-302-6278 / mark.duffy@tetratech.com

Date & time to schedule file review: Requesting May 27 (Tuesday) at 2:30 p.m.
Mark Duffy to review the files (known file for 777 San Marin Drive)

CUPA files

Business name and address of CUPA file(s) requested:	**Open/Closed**
1. 100 Wood Hollow Drive, Novato, CA 94945	/
2. 777 San Marin Drive, Novato, CA 94945 (Fireman's Fund Insurance – Case # 21-0051)	/
3.	/
4.	/
5.	/
6.	/
7.	/

Thank you,
Mary Kennelly
Administrative Assistant I
O: (415) 473-6647
F: (415) 473-2391

MacLean, Tanya

From: Kennelly, Mary <MKennelly@marincounty.org>
Sent: Tuesday, May 26, 2015 12:06 PM
To: MacLean, Tanya
Cc: Barnes, Julia
Subject: CUPA File Review Requests
Attachments: TetraTech Requests.pdf; CUPA File Review Form_Marin County 1600 LG Ste 210.pdf

Hello Tanya,

We have records for 777 San Marin Drive. Please see the attached request form for hours. This form can also be found at
http://www.marincounty.org/~/media/files/departments/pw/forms/cupa_file_review_request.pdf

Note that I will be out of the office starting tomorrow, May 27th, and will return Tuesday, June 2nd. If you need to arrange a file review appointment while I am away, please contact jbarnes@marincounty.org.

Thank you,

Mary

Mary Kennelly
Administrative Assistant I
County of Marin, Department of Public Works
1600 Los Gamos Dr., Ste. 210, San Rafael, CA 94903 | P.O. Box 4186, San Rafael, CA 94913-4186
San Rafael, CA 94903 | 415 473 6372 T | CRS Dial 711
mkennelly@marincounty.org

Email Disclaimer: http://www.marincounty.org/main/disclaimers

COUNTY OF MARIN

Certified Unified Program Agency
County of Marin – Waste Management Division
P.O. Box 4186, San Rafael, CA 94913-4186
1600 Los Gamos Drive, Suite 210, San Rafael, CA 94903
PHONE: (415) 473-6647 FAX: (415) 473-2391
www.marincounty.org/depts/pw/divisions/waste-management

PLEASE NOTE: Department of Public Works, Waste Management Division's jurisdiction now encompasses all of Marin County CUPA business sites. Our office maintains files for current and closed sites. Please contact Melinda Wong at the California Regional Water Quality Control Board at (510) 622-2430 for closed files from City of San Rafael.

Please call, fax or e-mail me at mkennelly@marincounty.org to schedule a file review 48 hours in advance between the hours of:

- **M-F: 8:30 am – 11:30 am**
- **M-F 1:30 pm - 4:00 pm**

Photocopier is available for use @ $0.15 per copy. Payment by check or exact cash is required. Thank you in advance for not wearing perfume/cologne during your file review.

Please complete the following information for your file review(s)

Company/Agency: Tetra Tech

Name/phone number/e-mail: Steven Grod / 949-809-5076 / steven.grod@tetratech.com
Mark Duffy / 510-302-6278 / mark.duffy@tetratech.com

Date & time to schedule file review: Requesting May 27 (Tuesday) at 2:30 p.m.
Mark Duffy to review the files (known file for 777 San Marin Drive)

CUPA files

Business name and address of CUPA file(s) requested:	**Open/Closed**
1. 100 Wood Hollow Drive, Novato, CA 94945	/
2. 777 San Marin Drive, Novato, CA 94945 (Fireman's Fund Insurance – Case # 21-0051)	/
3.	/
4.	/
5.	/
6.	/
7.	/

Thank you,
Mary Kennelly
Administrative Assistant I
O: (415) 473-6647
F: (415) 473-2391

Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Edmund G. Brown Jr.
Governor

May 29, 2015

Ms. Tanya MacLean
Tetra Tech
17885 Von Karman Avenue, Suite 500
Irvine, California 92614

100 Wood Hollow Drive, Novato, CA 94947
PR 1-052215-01

Dear Ms. Maclean:

We have received your Public Records Act Request for records from the Department of Toxic Substances Control.

After a thorough review of our files we have found that no such records exist at this office pertaining to the sites/facilities referenced above.

We would like to inform you about Envirostor, a database that provides information and documents on over 5,000 DTSC cleanup sites. EnviroStor can be accessed at: http://www.envirostor.dtsc.ca.gov/public. Also, a computer is available in the Central Files of each DTSC Regional Office for use by community members to view EnviroStor.

If you have any questions, would like further information regarding your request or would like an appointment to visit Sacramento's Central Files, please contact me at (916) 255-3758.

Sincerely,

Jan Papararo
Regional Records Coordinator

Printed on Recycled Paper

TETRA TECH, INC.

TELEPHONE LOG

Date	Time	Project Number	Project Name
5-29-2015	11:18am	T34393	

Tetra Tech Participant: Tanya Mackean

Other Participant: Melinda Wang

Topic: Records request

Company Name: SFBRWQCB

Telephone Number: 510-622-2430

Summary:

100 Wood Hollow Drive (site) — no records.

777 San Marin Drive — only records are those on Geotracker.

USER QUESTIONNAIRE FOR PHASE I ENVIRONMENTAL SITE ASSESSMENT

Instructions for User Questionnaire:

1. Please complete the following questionnaire, sign, date, and return to:
   Tetra Tech
   17885 Von Karman Avenue, Suite 500
   Irvine, CA, 92614
   Phone: (949) 809-5000
   Fax: (949) 809-5010
   Attention: Jon Lovegreen or Steven Grod
   E-mail: jon.lovegreen@tetratech.com or steven.grod@tetratech.com

2. Wherever you answer "YES" please provide all relevant information either on the following pages or provide copies of relevant documents, reports, documents, and/or correspondence.

3. If you cannot provide the answer to a question, please indicate a person to contact who would be able to provide this information and include contact information for this individual (phone number, e-mail, etc.).

4. This questionnaire is intended for the User to provide Tetra Tech, Inc. with the information required to comply with ASTM E1527-13.

5. The User of the Phase I Environmental Site Assessment may not be able to qualify as an innocent landowner under the ASTM standard unless the information in this questionnaire is provided.

6. Please provide complete copies of all prior reports for the property to Tetra Tech. If already provided to Tetra Tech, please note.

7. Please note that this completed questionnaire will be included in the appendix of the Phase I Environmental Site Assessment report to be issued by Tetra Tech, Inc. By signing, dating, and returning this document to Tetra Tech, Inc., you are acknowledging and agreeing to the inclusion of this document in Tetra Tech Inc.'s Phase I ESA report.

QUESTIONNAIRE FOR PHASE I ENVIRONMENTAL SITE ASSESSMENT

Site Name: Office Building

Address(es): 100 Wood Hollow Drive

City, State, Zip Code: Novato, California 94945

APN(s): 125-202-17

Reason for Phase I ESA: Due diligence activities

Signature:

	Ms. Amy Xu, Vice President
Signature	Print Name and Title
Clarion Partners, LLC	June 2, 2015
Company Name (Please Print)	Date

Tetra Tech completed the questionnaire based on a telephone interview conducted with Ms. Xu on June 2, 2015.

1. Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25)

Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

Yes_X_ No____

If yes, please provide as much detail as possible about the liens against the property and provide copies of any related reports or paperwork.

_____

_____

_____

_____

_____

_____

2. Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26)

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?

Yes___ No_X_

If yes, please provide as much detail as possible about the AULs present and provide copies of any related reports or paperwork.

_____

_____

_____

_____

_____

_____

3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28)

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?

Yes X No____

If yes, please provide as much detail as possible about the specialized knowledge or experience and provide copies of any related reports or paperwork.

Building has been used as offices since constructed. Property was vacant land prior to being developed with the existing building. A BAAQMD-permitted emergency generator is located on the property. Water treatment chemicals for the boiler are used on-Site (SDSs are kept on-Site). Emergency response plan for the building is for fire life safety.

4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29)

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

Yes X No____

If yes, please provide as much detail as possible about the difference between the expected and actual purchase price, and any reasons this difference may be present.

5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30)

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:

(a.) Do you know the past uses of the property?

Yes_X_ No____

(b.) Do you know of specific chemicals that are present or once were present at the property?

Yes_X_ No____

(c.) Do you know of spills or other chemical releases that have taken place at the property?

Yes___ No_X_

(d.) Do you know of any environmental cleanups that have taken place at the property?

Yes___ No_X_

If yes, please provide as much detail as possible and provide copies of any related reports or paperwork.

"Yes" answers already discussed in Question 3.

6. The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)

Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of releases at the property?

Yes___ No_X_

If yes, please provide as much detail as possible about the indicators of releases, and provide copies of any related reports or paperwork.

7. Is/Are/Were there any of the following?

	YES	NO
Chain-of-Title Report		X
Environmental Liens/Activity and Use Limitations (AULs)		X
Hazardous Materials Business Plan		X
Emergency Response Plan	X	
Spill Prevention Control and Contingency (SPCC) Plan		X
Community Right-to-Know Plan		X
Environmental Assessments (complete copies including all appendices)		
Risk Assessments (complete copies including all appendices)		X
Compliance Audits		X
Environmental Permits / Registrations for Aboveground / Underground Storage Tanks Wastewater Storage / Treatment Systems, Hazardous Materials / Waste, and National Pollution Discharge Elimination System (NPDES)	X	
Governmental Environmental Agency Notices of Violation (NOVs)		X
Regulatory Agency Correspondence		X
Notices/Conditions of Non-Compliance with Environmental Regulations		X
Pending, Threatened, or Past Environmental Litigation		X
Pending, Threatened, or Past Environmental Administrative Proceedings		X
Safety Data Sheets (SDSs)	X	
Hazardous Waste Manifests / Reports		X
Hydrogeological Reports		X
Geotechnical Reports		X
Historic Maps or Drawings		X
Aerial Photographs		X
Historical Photographs		X
Fire Insurance Maps		X

If you answered YES to any of the items on this questionnaire, please provide all information and copies of relevant documents to Tetra Tech or note if already provided to Tetra Tech.

NO = “not to the best of my knowledge” as answered by Ms. Xu.

“Yes” answers already discussed in Question 3.

INTERVIEW / QUESTIONNAIRE / DOCUMENT REQUEST

Where the answer to a question is "yes", please provide as much detail as possible on a separate page and complete copies of the documents (electronic in pdf format preferred).

(1) Have any known spills or releases occurred at the Site? NO

(2) Have any remedial actions or environmental investigations been conducted previously on the property, or are currently ongoing? NO

(3) What environmental permits are associated with the property? BAAQMD (emergency generator).

(4) Have there been any environmental notices of violation (NOVs) issued for the Site by any regulatory agency? NO

(5) Has the Site been the subject of any environmental regulatory action? NO

(6) Has the Site been subject to any environmental complaints or lawsuits (any prior, pending or threatened environmental claims, litigation, or administrative proceedings)? NO

(7) Are any underground storage tanks (USTs) currently present, or were any USTs formerly present at the Site? Are there UST permits and/or closure letters for the Site? NO

(8) Are any aboveground storage tanks (ASTs) currently present, or were any ASTs formerly present at the Site? Are there AST permits and/or closure letters for the Site? YES (emergency generator)

(9) Are any clarifiers, oil/water separators, wastewater treatment systems, floor drains, trench drains, sumps, or similar subsurface features currently present, or were such features formerly present at the Site? Are there wastewater discharge permits for the Site? NO

(10) Are there any wells at the Site, including water production wells, water treatment wells, groundwater monitoring wells, soil vapor monitoring wells, soil vapor extraction wells, dry wells, piezometers, or other types of wells? NO

(11) Are any active or abandoned septic systems or cesspools present at the Site? NO

(12) Does the facility have any air permits or does it otherwise discharge air pollutants? BAAQMD (emergency generator).

(13) How and where is storm water collected and discharged at the Site? Are there storm water discharge permits for the Site? Storm water drains; no discharge permits required.

(14) Are there prior environmental assessment and/or survey reports for the Site? NO

(15) Are there asbestos survey reports and/or asbestos operations and maintenance (O&M) plans for the Site? NO

(16) Are there any other relevant documents for the Site such as geotechnical investigation reports, subsurface investigation reports, health risk assessment reports, etc. for the Site? NO

(17) Are there historical and/or current tenant roles for the Site? NO

NO = "not to the best of my knowledge" as answered by Ms. Xu.

APPENDIX F
RESUMES

TETRA TECH

Mark Duffy, REPA
Project Geologist

EXPERIENCE SUMMARY

Mr. Duffy specializes in soil and groundwater contamination investigation (primarily petroleum hydrocarbons and chlorinated solvents), and environmental assessment and compliance. He is currently involved in site and remedial investigations, underground storage tank projects, stormwater assessment, and NEPA/CEQA document writing. Mr. Duffy has experience doing large scale groundwater and soil investigation/remedial projects, air monitoring, and coordinating and conducting groundwater monitoring events. Mr. Duffy also has experience with aquifer characterization (including pumping and slug tests), well installation, rock core logging, operation and maintenance of groundwater extraction systems, and lithologic interpretation. He has experience using AutoCad, and ArcGIS to make potentiometric groundwater surface maps, chemical isoconcentration maps, and litholigic cross sections. His drilling experience includes oversight of mud-rotay, sonic, direct push, and hollow-stem auger methods. Mr. Duffy has worked with Tetra Tech for 9 years

RELEVANT EXPERIENCE

Lockheed Martin Space Systems, Sunnyvale, California, 2004 - 2006. Responsibilities included managing large quarterly groundwater sampling events, field supervision of drilling operations, installation and development of groundwater monitoring wells, soil classification using the Unified Soil Classification System, data evaluation and report preparation, slug and pump test field oversight, and extraction well operation and maintenance.

Clean Harbors, Class I Landfills, 2004-2006. Responsibilities included implementation of quarterly groundwater monitoring and preparation of quarterly reports for submittal to the DTSC. Groundwater monitoring activities included gauging of water levels, well inspection, groundwater sampling, daily instrument calibration, preparation of sample event data sheets and field investigation forms and sample shipment under chain-of-custody protocol.

Shoreline Landfill, Mountain View, California, 2004-2006. Responsible for implementation of quarterly wastewater compliance monitoring in accordance with City of Mountain View discharge permit requirements and semi-annual groundwater monitoring. Wastewater monitoring consists of the collection of 24-hour composite samples using programmable autosamplers.

Lowry Range Phase I and II, Field Manager, Lend Lease Communities, LLC, Aurora, Colorado, 2007 - 2008. Mr. Duffy was part of the site reconnaissance team for this large Phase I Environmental Site Assessment at the Former Lowry Training Annex, a 3,913 acre

EDUCATION

BS, Geology, State University of New York at Cortland

Geology Field Program, State University of New York at Buffalo

University of Canterbury, Christchurch, New Zealand (Study Abroad)

AREAS OF EXPERTISE

Project management

Scientific research and technical writing

Field geology

Geology and hydrology

Stormwater compliance

REGISTRATIONS/ AFFILIATIONS

National Registry of Environmental Professionals, Registered Environmental Property Assessor (REPA), No. 324405, April 2013

KEY TRAINING/ CERTIFICATIONS

40 Hour HAZWOPER Training [29 CFR 1910.120(e)] 2004

30 Hour OSHA Construction Safety and Health Training, 2012

40-Hour EM-385 Construction Hazard and Safety Training, 2013

OFFICE

Oakland, California

YEARS OF EXPERIENCE

11

CONTACT

510-302-6278

Mark.duffy@tetratech.com

parcel. He served as sampling manager for the large Phase II Environmental Site Assessment (ESA). The investigation included the collection of groundwater, surface water, and soil samples throughout the Former Lowry Training Annex. Unexploded ordnance was a concern, and clearance was performed before sample collection.

Gashouse Cove Underground Storage Tank Investigation, Field Geologist, San Francisco Department of Public Works (SFDPW), San Francisco, California, 2008. Served as the site supervisor and field geologist during drilling activities. This investigation was implemented to investigate groundwater contamination associated with five former underground storage tanks. The SFDPW was required by the local regulator, to provide additional data supporting case closure at the site.

Gashouse Cove Marina-Storm Water Compliance Assessment, Author, San Francisco Department of Public Works, San Francisco, California, 2008. Authored the Storm Water Compliance Assessment for the Gashouse Cove Marina, a Marine Fueling Facility located in San Francisco. The project scope included storm water compliance, best management practices, and corrective action. Mr. Duffy researched State of California and San Francisco storm water regulations becoming familiar with the Clean Water Act, NPDES permitting, and Small MS4 storm water regulations.

Maritime Administration, Vessel Condition Assessment and Best Management Practices, Assistant Vessel Inspector, Reserve Fleets, California, Texas, and Virginia, 2009. Served as assistant ship inspector during vessel condition surveys at the Suisun Bay Reserve Fleet, James River Reserve Fleet, and Beaumont Reserve Fleet. The purpose of these activities was to identify the overall fleet conditions and to identify any potential pathways for pollutants to enter the marine surface water, as it had been alleged that the vessels were exfoliating paint. This was done in conjunction with NPDES compliance and SWPPP development for the fleets. Best management practices to mitigate any pollutant pathways were based on observations made during these inspections.

Brannan-Andrus Levee Maintenance District, Biological Monitor, Brannan-Andrus Island, California, 2008. Served as a biological monitor during construction activities associated with emergency levee repair on Brannan-Andrus Island along the Sacramento River. The biological monitoring included observation of the Swainson's hawk, which was nesting with eggs close to the construction activity.

US Postal Service- Operation Maintenance and Management Plans for UST and AST Systems, Author-California, Hawaii, and Guam, 2008. Developed Operation, Maintenance and Management Plans (OMMPs) for regulated fueling systems at US Postal Service facilities in California, HI, and Guam. The OMMP document serves as a fueling system guidance mechanism for USPS facility staff. The document presents operation, maintenance, regulatory, and management practices related to fuel storage in USTs and dispensing systems. Mr. Duffy developed an understanding of underground storage tank regulations at the Federal, State and Local levels.

Phase I Environmental Site Assessments, Environmental Geologist, Avis Budget Car Rental, Oregon, 2009. Performed visual site inspections and authored the Phase I ESA reports for four Avis Budget Car Rental facilities located throughout the State of Oregon. A limited Phase II ESA investigation was performed at one of the sites in response to Phase I ESA findings. Mr. Duffy became familiar with the State of Oregon Department of Environmental Quality procedures and regulations.

Lockheed Martin Corporation-Dynamic Site Investigation, Beaumont Site I, San Bernardino, California, 2010. Served as lead field geologist for three months, supervising Sonic drilling activities. The dynamic investigation used real time laboratory data to determine the vertical and horizontal extent of perchlorate and trichloroethylene contamination in association with the area's former use as a rocket test site. Mr. Duffy worked extensively with management during the investigation to delineate contaminate plumes at a number of features based on laboratory data and field observations. Mr. Duffy was responsible for determining the Mt. Eden Formation (arkosic sandstone) contact, classifying core samples according to the Unified Soil Classification System, and preparing lithologic cross-sections associated with the site features for which he served as field geologist.

Defense Environmental Restoration Program (DERP), Formerly Used Defense Site (FUDS) Investigations, USACE, 2010 - 2012. Prepared Records Research Reports for the Oakland Dock and Warehouse, Richfield Storage Annex and National Aeronautics and Space Administration Area 2 (also known as the Santa Susana Field Laboratory) Formerly Used Defense Sites. The primary research goal was to determine the eligibility of the above mentioned FUDS properties, by determining if the Department of Defense (DoD) owned the property, and subjecting the research findings to the DERP FUDS eligibility guidelines. Research activities during the initial "determination of eligibility" phase consisted of gathering information to determine the sequence of historical transfers of title for a particular FUDS property over time. The Oakland Dock and Warehouse, the Richfield Storage Annex, and the NASA Area 2 sites were determined eligible for funding under DERP FUDS. Further research regarding historical use was performed in order to determine if the release of hazardous materials and/or waste was discharged to the environment during DoD ownership of the property. In addition to Mr. Duffy's role as a primary author, he served as manager of the ongoing DERP FUDS project work in the Tetra Tech, San Francisco office. The work was performed in 2010 and 2012.

Portland International Airport Quick Turn-Around (PDX-QTA) Facility, Quarterly Groundwater Monitoring Reporting, 2009 - Present. Prepared the Quarterly Groundwater Monitoring Report for the PDX-QTA facility. Responsibilities include groundwater elevation interpretation and mapping, interpretation of groundwater contaminant data, report writing, AutoCAD drafting, data management, and preparation of groundwater elevation contour maps.

Avis Rent A Car, Harbor Way Facility, South San Francisco, Leaking Underground Storage Tank Cleanup, 2007-2010. The site investigation and remedial activities at the Avis Harbor Way facility were in response to petroleum hydrocarbon contamination to the subsurface environment caused by a former leaking underground storage tank. Responsibilities were quarterly groundwater sampling, soil gas sampling and probe installation, monitoring well installation oversight, monitoring well development, quarterly report preparation, AutoCAD drafting, report writing, groundwater elevation contour map preparation, and groundwater and soil gas data interpretation and management.

Former Reynolds San Francisco Can Plant, Hayward, Semi-Annual Groundwater Monitoring, 2009 - Present. Groundwater monitoring has been ongoing at the site since November 1999 after the discovery of volatile organic compounds in soil and groundwater. Mr. Duffy's responsibilities include groundwater sampling and final report QA/QC duties. Mr. Duffy has worked on this project since the spring of 2009. The project is ongoing, with semi-annual verification groundwater monitoring performed in March and September.

Comerica Bank, Sotirkos Furniture Phase II Environmental Site Assessment (ESA), San Leandro, California, 2010. Mr. Duffy was responsible for the scheduling, planning, and permitting associated with this Phase II ESA. As field geologist, Mr. Duffy performed the field work which included the installation of three soil borings and four temporary groundwater wells at the Site. Additional field activities included the collection of soil samples, groundwater samples, water levels, and photoionization detector data. The Phase II ESA was in response to findings indicating that a leaking underground storage tank was at the Site. Mr. Duffy prepared the Draft Phase II ESA report, interpreted analytical results, and prepared the electronic soil boring logs. The work was performed in March and April of 2010.

San Francisco Department of Public Works, 17th Street and Folsom Street Site, Soil and Groundwater Investigation, San Francisco, California, 2011. The site was slated for redevelopment by the San Francisco Recreation and Parks Department, for future use as a public park and recreation area. The purpose of the investigation was to evaluate the soil and groundwater at the Site to assess conditions that may affect its future use, and pose risks to human health. Mr. Duffy was responsible for cost proposal preparation, scheduling, permitting, field work, and report preparation. As field geologist, he oversaw the installation of twelve soil borings and five temporary groundwater wells at the site. Additional field activities included the collection of soil samples, groundwater samples, water levels, and photoionization detector data. Mr. Duffy prepared the Soil and Groundwater Investigation report, interpreted analytical results, and prepared the soil boring logs. The work was

performed in March and April of 2010. Based on the results of the investigation, additional work including soil boring installation (eight), groundwater and soil sample collection, and waste disposal characterization was performed in May 2011. Three groundwater monitoring wells were destroyed in July 2011.

United States Postal Service, Vehicle Maintenance Facility, Honolulu, Hawaii,Hydraulic Fluid Spill Cleanup, 2010 to Present. Primary responsibilities include the preparation of an Environmental Hazard Evaluation, and Environmental Hazard Management Plan. The goal was to evaluate potential environmental hazards, the impacts posed to human and ecological receptors considering multiple scenarios and pathways, and to provide a framework for appropriately managing those hazards. Developed a conceptual site model, analyzed historical and current data to gauge environmental hazards, and interpreted the extent and magnitude of remaining petroleum contamination in soil and groundwater.

Maritime Administration, Storm Water Pollution Prevention Training Course, Suisun Bay Reserve Fleet, California, 2010. Taught the annual Storm Water Pollution Prevention Training course to MARAD employees, which included a 3 hour long classroom training covering regulatory framework, the facility Stormwater Pollution Prevention Plan (SWPPP), sample collection, and monitoring requirements. The class of 30 students was split into small groups for the hands on portion, which covered stormwater sampling and monitoring procedures in a marine vessel setting to simulate the actual work requirements of the students. The training was given in September of 2010.

Portland International Airport Avis Administration Facility, Soil Gas Investigation, 2011. Investigation and remedial activities at the PDX-Administration facility were in response to petroleum hydrocarbon contamination to the subsurface environment caused by former leaking underground storage tanks. Mr. Duffy performed the soil gas investigation for the PDX-Administration facility in January 2011. The soil gas sample results did not indicate any contaminants above Oregon DEQ regulatory limits, prompting a request for closure of the case in 2011. Responsibilities included report writing, AutoCAD drafting, data management, and collection of soil gas samples. Mr. Duffy oversaw the destruction of the remaining groundwater monitoring wells at the Site, in November 2011. The case has received a no further action designation by the Oregon DEQ.

Port of San Francisco, Storm Water Pollution Prevention Audit, San Francisco, California, 2012. The audit included Port of San Francisco tenants. The Stormwater Pollution Prevention Plan (SWPPP) document reviews, audit inspections, and report preparation tasks were to comply with National Pollutant Discharge Elimination System (NPDES) storm water requirements. Mr. Duffy received a commendation from the client for his “excellent job” with a particularly difficult tenant.

Remedial Investigation and Feasibility Study (2010). Hickam Communities LLC, Joint Base Pearl Harbor-Hickam, Honolulu, Hawaii, 2012. Served as the filed geologist for the ongoing Remedial Investigation and Feasibility study (RI/FS) at Joint Base Pearl Harbor-Hickam in Hawai’i. This RI/FS addresses impact to soil by organochlorine pesticides. He performed the multi-incremental soil sampling, tabulated data, and helped prepare technical reports.

Portland International Airport Avis Administration Facility, Spill Prevention and Countermeasure Control (SPCC) Plan, 2012. Performed the SPCC inspection at the Avis Administration Facility. The facility is a rental vehicle maintenance and administration facility with aboveground storage of oil and fuel. Following the site inspection Mr. Duffy prepared the SPCC Plan report for review by the project Professional Engineer.

Budget Rental Car Facility, Spill Prevention and Countermeasure Control (SPCC) Plan, Portland, Oregon, 2012. Performed the SPCC inspection at the Budget Rental Car Facility. The facility is a rental vehicle maintenance and administration facility with aboveground storage of fuel. Following the site inspection Mr. Duffy prepared the SPCC Plan report for review by the project Professional Engineer.

Confirmatory Soil Sampling, Van Voorhis Neighborhood, Areas 18 & 19, Knox Hills LLC, Fort Knox, Kentucky, 2012. The purpose of the investigation was: 1) to obtain baseline soil quality data to determine if there was evidence that pesticides were present in soil beyond the driplines of existing buildings; and 2) to evaluate

soils within the footprints of former buildings that were previously demolished at the site. The soil quality data was used to evaluate soil management requirements and options for development of new housing in the project area, and to help identify the location and volume of soil that will need to be addressed by the design/build contractor(s). Mr. Duffy served as the field geologist, performed the multi-incremental soil sample collection, and authored the report. The project was completed in January 2012.

Privileged and Confidential, Air and Surface Water Forensic Analysis, Antioch, California, 2012. The objective of the work was to attempt to identify the composition of an intermittent discharge in air, possibly from nearby emissions stacks, which was depositing particulates onsite in the area of four stormwater water detention basins and impacting surface water. To do this, three dry air deposition samples were collected using oil-coated Teflon filters for analysis of the deposited particulates by X-ray fluorescence spectroscopy. This analysis identified the primary elements present on the filters. In addition to the air deposition samples, a surface water sample including the unknown particulate material was collected from one of the detention basins. The water sample was analyzed by Scanning Electron Microscopy-Energy Dispersive X-Ray Analysis to determine the abundance of specific elements and gain an understanding of chemical composition. Mr. Duffy provided all of the field support for the project, which included one day of sample collection and one day of detailed observation of the site to identify the particulate of interest.

Budget Rental Car Facility, Stormwater Pollution Control Plan (SWPCP), Portland, Oregon, 2012. Performed the SWPCP inspection at the Budget Rental Car Facility. The facility is a rental vehicle maintenance and administration facility with aboveground storage of fuel. Following the site inspection Mr. Duffy prepared the SWPCP report; the work was completed in August, 2012.

Former Naval Weapons Test Station, AOPI Site Inspection and Eagle's Nest Remedial Investigation, NAVFAC, Concord, California, 2012. Superintendent for the Site Inspection and Remedial Investigation for UXO clearance, and munitions related contamination of soil. He oversaw site activities which included trench excavations, UXO anomaly clearance, soil sample collection, and health and safety meetings. Mr. Duffy prepared geologic cross sections for the trenches using CAD, for the Site Inspection report. The work was performed in September and October of 2012.

Former Hammer Field, Formerly Used Defense Site #J09CA0823, USACE, Fresno, California, 2012. Served as lead field Geologist for this soil and groundwater investigation. Several test borings using hollow-stem auger and direct push drilling methods were installed at different Areas of Interest. It was suspected that the areas of investigation were sites where petroleum hydrocarbons were released to the environment. In support of this project, lithology was logged according to the Unified Soil Classification System using sound geologic interpretation. The work was performed in November of 2012.

Sausalito Marin City Sanitary District Environmental Assessment, Marin County, California, 2013. Prepared the Geologic, Water, and Coastal Resources sections for the Environmental Assessment. The analysis was conducted according to NEPA and CEQA, serving as a planning mechanism to evaluate any environmental impacts that might be caused by proposed upgrades to the Sausalito Marin City Sanitary District, Sewage Treatment Plant. The work was performed in February of 2013.

Lahontan Regional Water Quality Control Board, Emergency, Abandoned and Recalcitrant Fund Site, Yermo Truck Stop, Yermo, California, 2013 - 2014. The purpose of the investigation was to further evaluate petroleum hydrocarbon contaminants in soil, soil-gas, and groundwater in the vicinity of the suspected source (underground storage tanks formerly at the site), and to evaluate post-removal site conditions for comparison to the State Water Quality Control Board, Low-Threat Underground Storage Tank Case Closure Policy. Petroleum hydrocarbon contaminants, believed to have originated from the site, were reported in a nearby municipal supply well. The work included the design and installation of one groundwater monitoring well to collect soil and groundwater data (the existing monitoring wells went dry), and a soil gas investigation. The case was granted no further action status in March 2014.

Former Naval Weapons Test Station, Building 81, NAVFAC. Concord, California, 2013 - Present. Chlorinated solvent contamination was identified in soil vapor, prompting the groundwater investigation for which Mr. Duffy served as lead field Geologist. The investigation included the installation of several borings using a hollow-stem auger drill rig to determine the depth of first groundwater, the Markely formation (sandstone bedrock) contact, and collect groundwater samples to determine the concentrations of volatile organic compounds dissolved in groundwater. Mr. Duffy logged the soil and bedrock encountered during drilling using the Unified Soil Classification System, and prepared cross sections using CAD software. The bedding orientation at the site was determined in the field and used to calculate the apparent dip angles for the cross sections.

New York State Housing and Urban Development, Hurricane Sandy Environmental Documentation, 2013. Prepared maps using ArcGIS to show the location of certain resources, such as wetlands, in relation to properties damaged during the hurricane.

California Department of Transportation, Bay Bridge Cantilever Truss Demolition Project, Air Quality Monitoring, 2013 - 2014. Performed air quality monitoring field work during the Bay Bridge cantilever truss demolition project. Air monitoring was required becasue steel beams coated with lead-based paint were being cut. The monitoring was to determine if fugitive dust generated during steel cutting contained crystalline silica (as quartz) and particulate lead at levels that potentially pose a health risk to off-site receptors. PM_{10} emissions were also recorded during the demolition. Air monitoring was done using a Thermo a pDR-1500 aerosol particulate dust monitor (for PM_{10}) and SKC, Inc. pumps and filters (for total respirable dust, siliCalifornia, and lead).

United States Postal Service, Emeryville Station, Emeryville, California, 2014 - Present. Completed an Updated Site Assessment and Case Closure Request for the site, a former industrial property with heavy molecular weight hydrocarbon contamination. The State Water Resources Control Board, Low-Threat Underground Storage Tank Case Closure Policy was applied to the site groundwater conditions, based on data collected in January of 2014, the first data for the site in 18 years.

Chlorinated Solvent Site Source Investigation, Sacramento, California. Mr. Duffy conducted a source investigation for the Sacramento Area Sewer District to investigate and identify the subsurface source of PCE in groundwater, known to originate from historical releases of PCE to the sewer system from an upstream drycleaning facility. The objective was to identify the location and depth of the subsurface source of PCE at this active groundwater remediation site, Tetra Tech conducted an extensive review of past investigation and monitoring reports and data by other consultants, as well as sewer line construction details and videos, to update the conceptual site model. The subsequent field investigation using membrane interface probe and soil borings, identified a significant PCE source in the vadose zone soil for targeted remediation, and confirmed the CSM.

Hunters Point Naval Shipyard, San Francisco, California, Mercury Evaluation at Installation Restoration Site 26, 2014 - Present. Completed technical review of work plan for the following scope of work: monitoring well installation and development, evaluation of aquifer parameters, slug testing, and tidal study. The purpose of the work is to estimate the mass discharge of mercury contaminated groundwater from the site to the San Francisco Bay.

SCIENTIFIC/TECHNICAL PUBLICATIONS

Eaton G.F., White C.B., and Duffy M. (2010) Application of ISCO to Petroleum Hydrocarbon Impacted Soil at a South San Francisco LUST Site. Battelle, Seventh International Conference, Remediation of Chlorinated and Recalcitrant Compounds. May 2010.

Duffy, Mark. “Application of ISCO to Petroleum Hydrocarbon Impacted Soil at a South San Francisco LUST Site”, Association for Environmental Health and Sciences Foundation conference, Poster Presentation, San Diego, CA, March 2010

ADDITIONAL TRAINING/CERTIFICATIONS

Groundwater Resource Association of California, Low-Yield Aquifer Testing Training, 2004

U.S EPA Region 9, Incremental Sampling Methodology Training and Workshop, 2012

ASHI approved CPR training, 2013

First-Aid training from Safety Training Seminars, 2013

OSHA 8-Hour HAZWOPER Refresher, 2014

OSHA 8-Hour HAZWOPER Supervisor Training, 2014

ADDITIONAL EXPERIENCE

Proficient using the Unified Soil Classification System, AutoCAD, ArcGIS, MS Excel, MS Word, MS Outlook, M-Tech Software Geotechnical Graphics

EMPLOYMENT HISTORY

2007 – Present	Project Geologist, Tetra Tech Inc., Oakland, California
2004 – 2006	Project Geologist, Cameron-Cole LLC, Alameda, California

TANYA MACLEAN

Due Diligence Scientist **Tetra Tech, Inc. – Division PPG**

EDUCATION/SPECIAL TRAINING

B.S. Environmental Science, Minor: Biology – University of Waterloo – Waterloo, ON, Canada

REGISTRATIONS/CERTIFICATIONS

OSHA 40-Hour HAZWOPER Training (29 CFR 1910.120)

QUALIFICATIONS

Ms. MacLean has been primarily responsible for conducting Phase I Environmental Site Assessments (ESAs) and tenant audits since August 2005. Specific duties involve the completion of historical public record/photo reviews, review and evaluation of computer-compiled government agency databases, on-site reconnaissance, interviews, review of hydrogeological and wetlands information, preliminary asbestos-containing materials (ACM) surveys, preliminary lead-based paint surveys, data interpretation, evaluation of recognized environmental conditions (RECs) and environmental concerns, and report preparation. Ms. MacLean has also performed in field oversight of groundwater monitoring activities for a former industrial property.

RELEVANT EXPERIENCE SUMMARY

- **Phase I ESA, Confidential Client, Riverside County, California.** Performed Phase I ESA for wind energy project in Riverside County, CA.
- **Phase I ESAs, Confidential Clients, Riverside and San Bernardino Counties, California.** Performed Phase I ESAs for three existing or future solar field projects in Riverside and San Bernardino Counties, CA.
- **Phase I ESA, Confidential Client, Nevada.** Performed Phase I ESA for a natural gas-powered, combined-cycle electricity generating facility in Nevada.
- **Phase I ESAs, The Boeing Company, Long Beach, CA.** Performed Phase I ESAs for several former industrial/manufacturing properties in Long Beach, CA.
- **Phase I ESAs, Los Angeles Department of Water and Power (LADWP), Multiple locations in Los Angeles/Kern/Inyo Counties, CA.** Performed Phase I ESAs for a total of 31 properties to date for LADWP including a 23-Site portfolio in the Bishop/Big Pine area of Inyo County.

- **Phase I ESA, Orange County Transportation Authority (OCTA), Placentia, CA.** Performed Phase I ESA for a former auto repair facility in Placentia, CA.
- **Phase I ESA, Various Clients, Southern California, Arizona, Nevada, and Oregon** Performing Phase I Environmental Site Assessments for various clients, including lending institutions, large corporations, and private clients on hundreds of sites including gasoline stations, dry cleaners, large industrial properties, and commercial and residential properties.
- **Groundwater Monitoring, Costa Mesa, CA.** In field oversight of groundwater monitoring activities for semi-annual groundwater monitoring and post-remediation monitoring at former industrial facility in Costa Mesa, CA.
- **Tenant Inspection Program, Southern and Northern California, Phoenix, Atlanta, Calgary** Involved with tenant audits of warehouse, light industrial, and commercial facilities at a number of business parks in southern and northern California, Phoenix, Atlanta, and Calgary.

PROFESSIONAL REFERENCES

Furnished upon request

STEVEN GROD

Project Manager **Tetra Tech, Inc. – Division PPG**

EDUCATION/SPECIAL TRAINING

B.S. Oceanography – Humboldt State University – Arcata, CA

REGISTRATIONS/CERTIFICATIONS

OSHA 40-Hour HAZWOPER Training (29 CFR 1910.120)
AHERA-certified Building Inspector

QUALIFICATIONS

Mr. Grod has over 20 years of experience in the conduct of environmental studies in the United States. This experience includes property transfer evaluation of individual residential, commercial, industrial, manufacturing, and energy properties and portfolios primarily across the western United States; and soil and groundwater characterization.

Currently, Mr. Grod serves as a Project Manager of Tetra Tech Inc.'s Irvine, California office. As Project Manager, Mr. Grod is responsible for performing and/or overseeing or supervising environmental assessments, environmental sampling, compliance audits, regulatory records research and review, subsurface investigations, and preparation of AutoCAD-based drawings.

Previously, Mr. Grod held similar positions in California with Vertex Engineering Services, Inc., and at ATEC Environmental Consultants (ATEC) and ATC Associates Inc. (ATC), which acquired ATEC in 1996.

RELEVANT EXPERIENCE SUMMARY

- Managed and/or performed Phase I Environmental Site Assessments (ESAs) for a variety of properties including residential, commercial, industrial, manufacturing, oil field, and energy properties. Property types have included wind and solar energy facilities, a natural gas-powered combined-cycle electricity generating facility, multi-tenant shopping centers, strip shopping centers, high-rise office buildings, dry cleaners, gasoline/service stations, metal and powder coating facilities, wire manufacturing facilities, injection molding facilities, medical and biological research and development facilities, aerospace facilities and computer parts manufacturing facilities, an ink manufacturing facility, plastics manufacturing facilities, and a construction company equipment yard and maintenance facility (located within an oil field; with oil wells on-Site).

- Managed the performance of quarterly tenant inspection reviews of approximately 90 million square feet of tenant space nationwide.

- Performed Phase I environmental site assessments and NEPA studies for the wireless telecommunications industry.

- Assisted with oversight of soil borings and groundwater monitoring well installations, and performing soils and groundwater sampling.

- Performed reviews/searches of regulatory records for legislation regarding hazardous materials use, hazardous materials and waste storage, and hazardous waste disposal; and conducted environmental compliance audits at industrial and commercial facilities.

- Assisted with preparation of compliance documentation (Hazardous Materials Business Plans and Spill Prevention, Control, and Countermeasures Plans).

- Performed AHERA, modified AHERA, and comprehensive Asbestos Surveys in residential, commercial and industrial buildings.

- Performed modified HUD lead-based paint sampling utilizing wipe sampling and chip sampling techniques.

- Assisted with lead-based paint surveys using gamma ray spectrometer.

- Performed radon gas and lead in drinking water sampling surveys.

- Performed numerous Phase I ESAs in California. Specific properties for Phase I ESAs have included wind and solar energy facilities, aerospace manufacturing facilities, an ink manufacturing facility, plastics manufacturing facilities, and a construction company equipment yard and maintenance facility (located within an oil field; with oil wells on-Site).

- Regulatory agency records reviews have included National Priority List (NPL; also known as Superfund) sites including the San Gabriel Valley and San Fernando Valley Superfund sites. Additional recent regulatory agency records reviews have been performed for cases pertaining to soil, soil gas, and/or groundwater impacted with hazardous substances that are overseen by regional (California Regional Water Quality Control Board [RWQCB] and local (City/County Environmental Health Departments) regulatory agencies. Specific property types for the cases included a former oil refinery, a landfill, a dry cleaning facility, and a number of gasoline/service stations.

PROFESSIONAL REFERENCES

Can be provided upon request.

JON R. LOVEGREEN, CPG, CEG, PG

EXPERTISE

Mr. Lovegreen has over 30 years of experience managing teams that provide business-oriented environmental and engineering geology services worldwide.

EXPERIENCE

Mr. Lovegreen's experience includes the performance or management of:

- Soil, soil vapor, and groundwater characterization.
- Soil and groundwater remediation.
- Energy surveys.
- Greenhouse gas (GHG) certification reviews.
- Property transfer evaluation of individual residential, commercial, and industrial properties and portfolios across the western United States.
- Asbestos, lead, radon, microbial growth, and indoor air quality surveys, abatement bid specifications, and abatement and mitigation monitoring.
- Human health risk assessments.
- Vapor encroachment condition assessments and mitigation design.
- Conceptual remedial cost estimates for environmentally impaired properties.
- Technical peer review.
- Seismic geology studies for proposed nuclear power plants, hydroelectric projects and high-rise office buildings in the U.S., Asia, Latin America, and the Middle East.

PROFESSIONAL HISTORY

Since 2003, Mr. Lovegreen served as the Division and District Manager of Vertex Engineering Service Inc.'s Southern California office while Vertex was a Tetra Tech, Inc. company and subsequently has been the Manager of the Private Practice Group within Tetra Tech, Inc. During the 1970s and 1980s he held technical and management positions at Woodward-Clyde Consultants in New Jersey and California and subsequently was a co-founder of Applied Geosciences Inc. (later acquired by ATC Associates Inc.) in Southern California.

RELEVANT EXPERIENCE SUMMARY

- Oversight of energy surveys at five banking facilities including two data centers and benchmark data entry. Recommended equipment and procedural changes resulted in $250,000 in annual energy savings with a simple payback on investment of less than three years.

- Completion of soil, soil vapor, and groundwater characterization of a former 10-acre aerospace-related facility with groundwater impacted by trichloroethene. Development of a corrective action

plan (CAP) including engineering and institutional controls and groundwater remediation using in-situ chemical oxidation. Following State agency approval of the CAP with no changes, groundwater remediation and post-remediation groundwater monitoring were implemented so that the property could be redeveloped with residential housing.

- Development and implementation of environmental due diligence methodology in the mid-1980s.

- Conduct, management, and/or technical review of thousands of Phase I environmental site assessments (ESAs) and Phase II subsurface investigations since the mid-1980s for real estate transactions at numerous manufacturing, industrial, commercial, and residential properties across the western United States.

- Management of the initial characterization and remediation in the early 1980s of chlorinated solvents that had impacted soil and groundwater at a semi-conductor manufacturing facility in Southern California. Remediation was initiated by the design and installation of one of the first vapor extractions systems (VES).

- Technical peer review of the soil characterization and remediation of a former tire manufacturing facility in Southern California. Following completion of asbestos abatement and demolition of the facility the site was redeveloped with a hotel, office building, and discount outlet shopping center. Remediation activities included mothballing the VES while the site was developed and subsequent reinstallation of the VES treatment unit and return of the VES to operation.

- Management oversight of an asbestos and mold survey and subsequent preparation of abatement bid specifications, owner assistance with contractor selection, abatement oversight and monitoring, and preparation of the abatement completion documentation report for an apartment complex at a California university.

- Characterization and remediation of an 80-acre former steel plant in southern California. Following characterization and limited remediation of soil with metals'-impacted slag, the site was redeveloped as the U.S. headquarters of a multi-national corporation.

- Management and technical oversight of vapor barrier design and installation to mitigate potential impacts from methane gas, chlorinated solvents, and petroleum-related volatile compounds.

- Corporate oversight during the conduct of a multi-year soil and groundwater characterization of a semi-conductor facility in the Santa Clara Valley of California where chlorinated solvents had impacted soil and groundwater. Soil remediation was subsequently undertaken and the site was sold.

- Evaluation of the extent of petroleum product in the subsurface at a pipeline tank farm facility and the design, installation, and operation of a recovery system for the 20-acre plume of free-phase petroleum product.

- Design of a leak detection and monitoring program for 115 underground storage tanks (USTs) and sumps at two aerospace facilities.

- Management of the groundwater remediation of a 30,000-gallon release of diesel fuel utilizing a cutoff trench with skimmer and pump-and-treat technology at a trucking facility in Omaha, Nebraska. Free-phase diesel fuel had reached a large-diameter storm water sewer with the potential to migrate to the Missouri River.

- Technical peer review of a Phase I ESA for a 105,000-acre property in Arizona.

- Project manager and client liaison for the technical review of mold mitigation measures at two multi-unit apartment complexes with construction defects in central California.

- Characterization and remediation of oil field properties to facilitate redevelopment as commercial and/or industrial properties. These services included addressing petroleum hydrocarbon- and chlorinated solvent-impacted soil and groundwater, abandonment of oil wells, risk assessments, and methane gas mitigation measures design.

- Technical peer review of a RCRA Part B site characterization for a chemical facility in southern California with multiple site mitigation units (SMUs). Soil remediation using a VES was designed and implemented. The work was conducted under the regulatory oversight of the State of California Department of Toxic Substances Control (DTSC).

- Characterization of a 20-acre aerospace property on the State's WIP list, including soil, soil gas, and groundwater characterization, underground storage tank and clarifier removal activities, lead-based paint and asbestos surveys, human health risk assessment, and interaction with the oversight regulatory agency resulting in case closure and subsequent sale for residential development.

- From the 1970s to early 1980s numerous active fault, reservoir-induced seismicity, and other engineering geology investigations were managed and/or conducted worldwide. These were conducted or managed for proposed hydroelectric projects, nuclear and fossil power plants, tunnels, and high-rise commercial buildings. In the United States, the investigations were conducted in Alaska, California, Nevada, New York, Ohio, Pennsylvania, South Carolina, and Utah. Internationally these investigations took place in South Korea, Argentina, Egypt, Iran, India, and Greece.

PROFESSIONAL REFERENCES

Can be provided upon request.

EDUCATION/SPECIAL TRAINING

M.A. Geology and Marine Geology – Columbia University – New York, NY
B.S. Geology – University of Southern California – Los Angeles, CA
A.Sci. Sciences – Reedley Community College – Reedley, CA

REGISTRATIONS/CERTIFICATIONS

Certified Professional Geologist (CPG), American Institute of Professional Geologists (#4379)
Certified Engineering Geologist (CEG), California (#EG 1164)
Professional Geologist (PG), California (#3726)
40-Hour OSHA Training

APPENDIX G
PHASE I ESA SHELF LIFE SUMMARY

PHASE I ESA SHELF LIFE SUMMARY

Effective Date of the Phase I ESA Report:
June 3, 2015.

Date Site Inspection Reconnaissance was Performed:
May 27, 2015.

Dates Interviews were Performed:
Between May 22 and June 2, 2015.

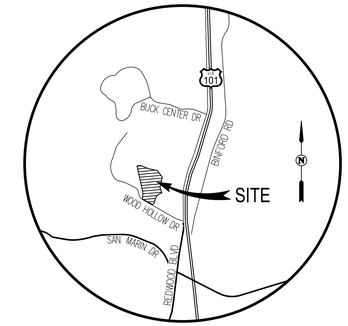
Dates Records Review was Performed:
Between May 22 and June 2, 2015.

Date Lien Search was Performed:
Texas Environmental Research, 2015, Environmental Lien and Other Activity Use Limitations (AULs) Search, Parcel 125-202-17, 100 Wood Hollow Drive, Marin County, Novato, California: dated May 25, 2015.

Shelf Life:
The shelf life (continued viability) of the Phase I ESA Report is pursuant to the time frames specified within ASTM Standard Practice E 1527-13. Tetra Tech understands the ASTM time frame to be 180 days.

Appendix K

Preliminary Site Plan Overview



VICINITY MAP

NOT TO SCALE

GENERAL NOTES:

1.	ASSESSORS PARCEL NO:	125-202-017
2.	SITE ADDRESS:	100 WOOD HOLLOW DRIVE, NOVATO, CA 94945
3.	GENERAL PLAN DESIGNATION:	BUSINESS AND PROFESSIONAL OFFICES (BPO)
4.	CURRENT ZONING:	PLANNED DISTRICT (PD)
5.	EXISTING USE:	BUSINESS/PROFESSIONAL OFFICE
6.	SITE AREA:	12.93 AC± (GROSS) 6.08 AC± (NET – EXC. PARCEL M)
7.	DWELLING UNITS:	66 SINGLE FAMILY DWELLING UNITS
8.	DENSITY:	5.01 DU/AC (GROSS) 10.86 DU/AC (NET – EXC. PARCEL M)
9.	BENCHMARK:	ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON THE NVGD 29 DATUM. TO CONVERT TO NAVD88 DATUM, ADD 2.70' TO THE ELEVATIONS SHOWN HEREIN (NAVD88 = NGVD29 + 2.70').
10.	BASIS OF BEARINGS:	THE BASIS OF BEARING FOR THIS MAP IS TAKEN AS N10°55'30"E BETWEEN HIGHWAY MONUMENTS "NV-23" AND "NV-25" AS SHOWN ON THE PARCEL MAP OF SAN MARIN BUSINESS PARK PHASE 2 (24 P.M. 68) OF THE COUNTY OF MARIN.
11.	EXISTING STRUCTURES:	TO BE REMOVED
12.	WELLS ONSITE:	NONE
13.	FLOOD ZONE:	ZONE X (SHADED): AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD. FLOOD INSURANCE RATE MAP NO. 06041C0164E DATED MARCH 16, 2016 & MAP NO. 06041C0277E DATED MARCH 16, 2016.
14.	UTILITY PROVIDERS: WATER: SANITARY SEWER: STORM DRAIN: GAS & ELECTRIC: TELEPHONE: CABLE TV: FIRE:	 NORTH MARIN WATER DISTRICT (NMWD) NOVATO SANITARY DISTRICT (NSD) CITY OF NOVATO PG&E AT&T COMCAST NOVATO FIRE PROTECTION DISTRICT
15.	UTILITIES:	ALL WATER SYSTEM UTILITIES TO BE OWNED & MAINTAINED BY NORTH MARIN WATER DISTRICT (NMWD). ALL SANITARY SEWER UTILITIES TO BE OWNED AND MAINTAINED BY NOVATO SANITARY DISTRICT (NSD). ALL STORM DRAIN (IN TRACT) TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNER'S ASSOCIATION. ALL STORM DRAIN IN PUBLIC RIGHT OF WAY TO BE OWNED & MAINTAINED BY THE CITY OF NOVATO.
16.	STREETS:	ALL STREETS WITHIN THE DEVELOPMENT WILL BE PRIVATELY OWNED & MAINTAINED BY THE HOMEOWNER'S ASSOCIATION. ACCESS AND UTILITY EASEMENTS WILL BE PROVIDED TO UTILITY OWNERS AS NECESSARY.
17.	STREET LIGHTS:	STREET LIGHTS ON PRIVATE PROPERTY WILL BE PRIVATELY OWNED AND MAINTAINED.
18.	STREET TREES:	STREET TREES SHALL BE PROVIDED AS REQUIRED BY THE CITY AND WILL BE PRIVATELY MAINTAINED.
19.	LANDSCAPING:	ALL LANDSCAPING WITHIN BOUNDARY WILL BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNER'S ASSOCIATION.
20.	GRADING:	ALL GRADING AS SHOWN IS SUBJECT TO FINAL DESIGN.
21.	EROSION CONTROL:	ALL DISTURBED SLOPES SHALL BE PLANTED WITH APPROPRIATE EROSION CONTROL PLANTING.
22.	DIMENSIONS:	ALL DIMENSIONS ARE PRELIMINARY AND SUBJECT TO FINAL SUBDIVISION MAP.
23.	CONDOMINIUM MAP:	A CONDOMINIUM MAP WILL BE RECORDED FOR LOTS 1-66. THE SUBDIVISION IS A CONDOMINIUM PROJECT AS DEFINED IN SECTION 1350 ET. SEQ. OF THE CIVIL CODE OF THE STATE OF CALIFORNIA AND FILED PURSUANT TO THE SUBDIVISION MAP ACT. THE TOTAL NUMBER OF CONDOMINIUM DWELLING UNITS SHALL BE NO MORE THAN 66 UNITS.
24.	PARCELS:	ALL PARCELS SHOWN ON THE VESTING TENTATIVE MAP WILL BE OWNED AND MAINTAINED BY THE HOMEOWNER'S ASSOCIATION.
25.	PHASING:	THE PROJECT MAY INCLUDE MULTIPLE PHASES AND FINAL MAPS.

CONTACTS

1.	APPLICANT:	100 WOOD HOLLOW DRIVE OWNER LLC DEV MUKHERJEE 123 MISSION STREET, FLOOR 7 SAN FRANCISCO, CA 94105 (617) 697-4505
2.	CIVIL ENGINEER:	CARLSON, BARBEE & GIBSON, INC. JASON NERI 2633 CAMINO RAMON, SUITE 350 SAN RAMON, CA 94583 (925) 866-0322
3.	ARCHITECT:	KTGY, INC. JILL WILLIAMS 1814 FRANKLIN STREET, SUITE 400 OAKLAND, CA 94612 (510) 463-2072
4.	LANDSCAPE ARCHITECT:	C2 COLLABORATIVE JACK HADEN 100 AVENIDA MIRAMAR SAN CLEMENTE, CA 92672 (949) 366-6624

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
BLDG	BUILDING
CL	CENTERLINE
DW	DRIVEWAY
DU	DWELLING UNIT
EX	EXISTING
EVAE	EMERGENCY VEHICLE ACCESS EASEMENT
FF	FINISHED FLOOR
P	PAD
PL	PROPERTY LINE
PSDE	PRIVATE STORM DRAIN EASEMENT
PSSE	PRIVATE SANITARY SEWER EASEMENT
PUE	PUBLIC UTILITY EASEMENT
PAE	PRIVATE ACCESS EASEMENT
R	RADIUS
R/W	RIGHT-OF-WAY
RW	RECYCLED WATER
SD	STORM DRAIN
SF	SQUARE FEET
SW	SIDEWALK
TC	TOP OF CURB
TYP	TYPICAL
WLE	WATER LINE EASEMENT
W.O.	WHERE OCCURS

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROJECT BOUNDARY
		RIGHT-OF-WAY
		PROPERTY LINE
		EASEMENT LINE
		RELINQUISHMENT OF ABUTTER RIGHTS
		CURB, GUTTER & SIDEWALK
		CONCRETE DITCH
		RETAINING WALL
		PROPOSED PAVEMENT
		BIORETENTION TREATMENT AREA
		TRANSFORMER LOCATION

SHEET INDEX

SHEET NO.	SHEET TITLE
C.1	TITLE SHEET
C.2	LOTTING PLAN
C.3	EXISTING CONDITIONS
C.4	PRELIMINARY SITE PLAN
C.5	PRELIMINARY GRADING PLAN
C.6	PRELIMINARY GRADING SECTIONS
C.7	PRELIMINARY UTILITY PLAN
C.8	STORMWATER CONTROL PLAN

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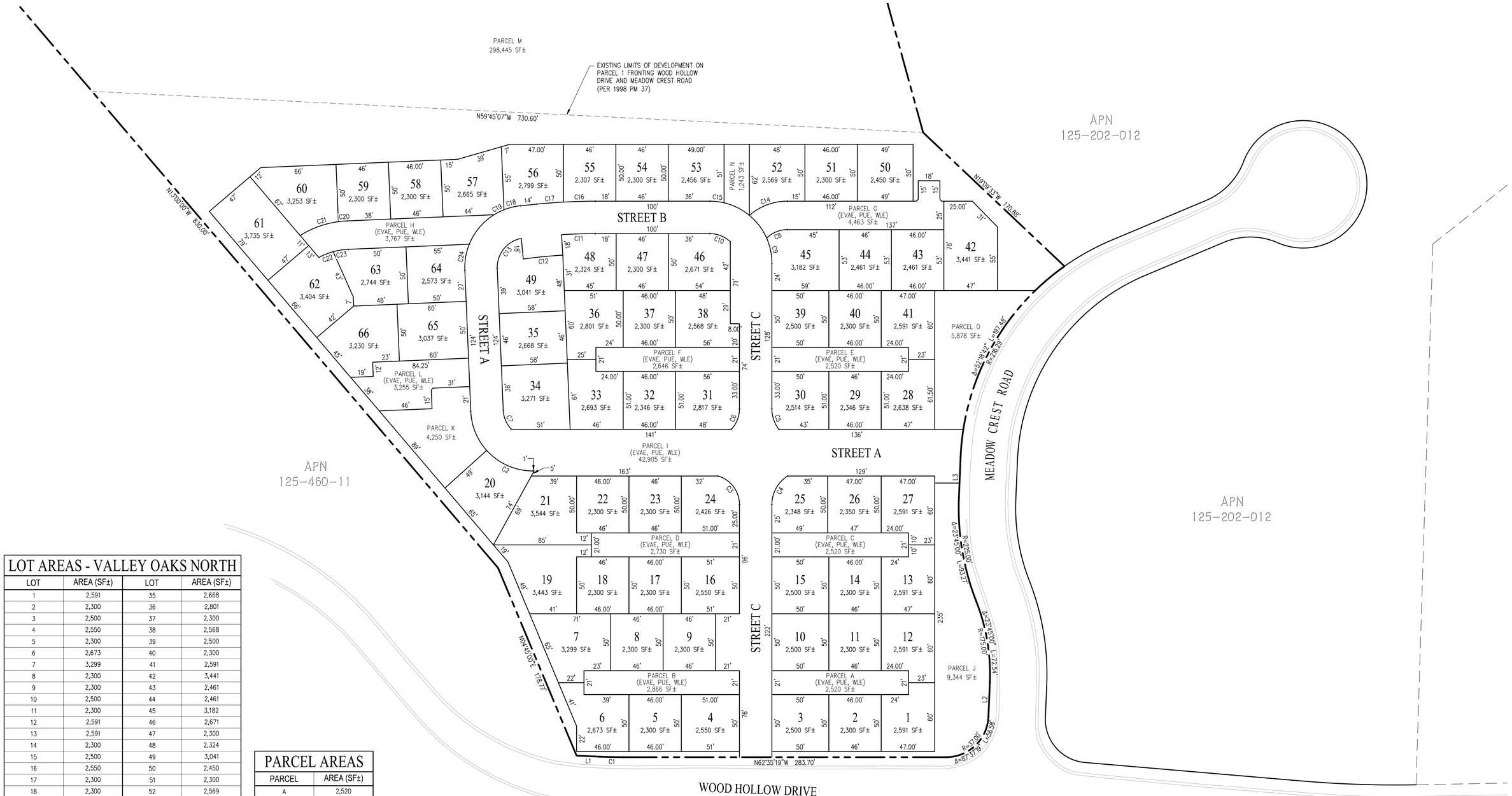
100 WOOD HOLLOW DRIVE
NOVATO, CA

50' 0' 25' 50' 100' 200'
GRAPHIC SCALE

VESTING TENTATIVE MAP FOR CONDOMINIUM PURPOSES
AUGUST 30, 2024

TITLE SHEET **C.1**



LOT AREAS - VALLEY OAKS NORTH

LOT	AREA (SF±)	LOT	AREA (SF±)
1	2,591	35	2,668
2	2,300	36	2,801
3	2,500	37	2,300
4	2,550	38	2,568
5	2,300	39	2,500
6	2,673	40	2,300
7	3,299	41	2,591
8	2,300	42	3,441
9	2,300	43	2,461
10	2,500	44	2,461
11	2,300	45	3,182
12	2,591	46	2,671
13	2,591	47	2,300
14	2,300	48	2,324
15	2,500	49	3,041
16	2,550	50	2,450
17	2,300	51	2,300
18	2,300	52	2,569
19	3,443	53	2,456
20	3,144	54	2,300
21	3,544	55	2,307
22	2,300	56	2,799
23	2,300	57	2,665
24	2,426	58	2,300
25	2,348	59	2,300
26	2,350	60	3,253
27	2,591	61	3,735
28	2,638	62	3,404
29	2,346	63	2,744
30	2,514	64	2,573
31	2,817	65	3,037
32	2,346	66	3,230
33	2,693	TOTAL AREA (LOTS 1–66)	173,847
34	3,271		

PARCEL AREAS

PARCEL	AREA (SF±)
A	2,520
B	2,866
C	2,520
D	2,730
E	2,520
F	2,646
G	4,463
H	3,767
I	42,905
J	9,344
K	4,250
L	3,255
M	298,445
N	1,243
O	5,878
TOTAL AREA (PARCELS A–O)	389,352

CURVE TABLE			
NO	RADIUS	DELTA	LENGTH
C1	492.00'	2°22'41"	20.42'
C2	54.50'	47°57'37"	45.62'
C3	26.00'	74°03'27"	33.61'
C4	29.50'	57°56'10"	29.83'
C5	29.50'	37°36'06"	19.36'
C6	26.00'	43°48'47"	19.88'
C7	26.00'	41°24'06"	18.79'
C8	25.50'	45°15'56"	20.15'

CURVE TABLE			
NO	RADIUS	DELTA	LENGTH
C9	54.50'	23°44'51"	22.59'
C10	26.00'	43°48'47"	19.88'
C11	484.00'	3°30'01"	29.57'
C12	466.00'	4°17'11"	34.86'
C13	26.00'	80°58'28"	36.75'
C14	50.50'	41°12'04"	36.31'
C15	54.50'	13°15'33"	12.61'
C16	512.50'	3°06'59"	27.87'

CURVE TABLE			
NO	RADIUS	DELTA	LENGTH
C17	512.50'	2°38'32"	23.63'
C18	54.50'	15°50'41"	15.07'
C19	54.50'	10°05'32"	9.60'
C20	84.50'	5°17'24"	7.80'
C21	84.50'	24°25'35"	36.02'
C22	59.50'	13°05'49"	13.60'
C23	59.50'	13°05'49"	13.60'
C24	54.50'	24°52'58"	23.67'

LINE TABLE		
NO	BEARING	LENGTH
L1	S60°12'38"E	20.55'
L2	N29°47'22"E	30.33'
L3	N29°47'22"E	35.63'

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100 WOOD HOLLOW DRIVE
NOVATO, CA

40' 0' 20' 40' 80' 160'
GRAPHIC SCALE

VESTING TENTATIVE MAP FOR CONDOMINIUM PURPOSES
AUGUST 30, 2024

LOTTING PLAN

C.2

LEGEND

	PROJECT BOUNDARY
	EXISTING EASEMENT LINE
EX SD	EXISTING STORM DRAIN PIPE
EX 8" SS	EXISTING SANITARY SEWER PIPE
EX W	EXISTING WATER PIPE
	EXISTING CATCH BASIN
	EXISTING DRAINAGE INLET
	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	EXISTING ELECTROLIER
	EXISTING UTILITY TO BE REMOVED
	EXISTING ASPHALT

NOTE:
ALL TREES, SURFACE IMPROVEMENTS, UTILITIES, AND BUILDING STRUCTURES WITHIN LIMITS OF DEVELOPMENT GRADING TO BE REMOVED

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100 WOOD HOLLOW DRIVE
NOVATO, CA

40' 0' 20' 40' 80' 160'
GRAPHIC SCALE

VESTING TENTATIVE MAP FOR CONDOMINIUM PURPOSES
AUGUST 30, 2024

EXISTING CONDITIONS **C.3**

EXISTING LIMITS OF DEVELOPMENT ON PARCEL 1 FRONTING WOOD HOLLOW DRIVE AND MEADOW CREST ROAD (PER 1998 PM 37)

EXISTING CONCRETE LINED DITCH TO REMAIN

PROPOSED CONCRETE LINED DITCH

PROPOSED CONCRETE LINED DITCH

TRAIL HEAD

APN 125-202-012

APN 125-460-11

APN 125-202-012

STREET A

STREET B

STREET C

DRIVE A

DRIVE B

DRIVE C

DRIVE D

DRIVE E

DRIVE F

DRIVE G

DRIVE H

MEADOW CREST ROAD

BIORETENTION TREATMENT AREA

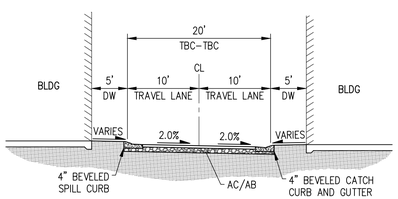
BIORETENTION TREATMENT AREA

PARK SITE AMENITY

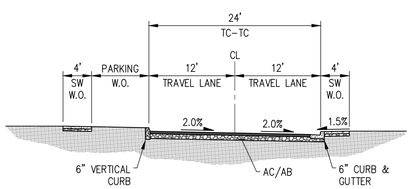
PROPOSED CONCRETE LINED DITCH

GRASSPAVE (OR SIMILAR)

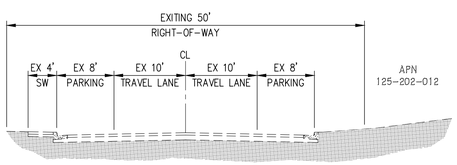
WOOD HOLLOW DRIVE



TYPICAL PRIVATE DRIVEWAY
NOT TO SCALE



STREET A, B, & C
NOT TO SCALE



MEADOW CREST ROAD
NOT TO SCALE

LEGEND

- PROJECT BOUNDARY
- RIGHT-OF-WAY
- PROPERTY LINE
- EASEMENT LINE
- CURB, GUTTER, & SIDEWALK
- RETAINING WALL
- PROPOSED PAVEMENT
- BIORETENTION TREATMENT AREA
- TRANSFORMER LOCATION

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100 WOOD HOLLOW DRIVE
NOVATO, CA

40' 0' 20' 40' 80' 160'
GRAPHIC SCALE

VESTING TENTATIVE MAP FOR CONDOMINIUM PURPOSES
AUGUST 30, 2024

PRELIMINARY SITE PLAN

C.4

NOTES:
1. GRADING SHOWN IS PRELIMINARY AND SUBJECT TO FINAL DESIGN.
2. BUILDING FOUNDATION IS ASSUMED TO BE 10" SECTION FROM PAD TO FINISHED FLOOR. FINAL FOUNDATION SECTION TO BE CONFIRMED BY STRUCTURAL ENGINEER.

FOR GRADING SECTIONS SEE SHEET C.6

LEGEND

- PROJECT BOUNDARY
- DAYLIGHT LINE
- EXISTING STORM DRAIN PIPE (EX SD)
- PROPOSED STORM DRAIN PIPE (PR SD)
- CURB, GUTTER, & SIDEWALK
- RETAINING WALL
- SPOT ELEVATION (CL 28.4)
- DIRECTION OF FLOW (1.0%)
- BIORETENTION TREATMENT AREA

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100 WOOD HOLLOW DRIVE
NOVATO, CA

40' 0' 20' 40' 80' 160'
GRAPHIC SCALE

VESTING TENTATIVE MAP FOR CONDOMINIUM PURPOSES
AUGUST 30, 2024

PRELIMINARY GRADING PLAN C.5