



# Monterey 2031 General Plan Update Environmental Impact Report

Volume 2b: Technical Appendices B-I

February 9, 2024

**PUBLIC REVIEW DRAFT**

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THE CITY OF  
**MONTEREY**

**Monterey 2031**  
**General Plan Update**  
**Environmental Impact Report**

**Volume 2b**

**February 9, 2024**

**Public Review Draft**

Prepared for the City of Monterey

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# B

**APPENDIX**

**HOUSING ELEMENT  
PROGRAMS**

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## **Housing Goal #1. Increase housing supply and facilitate production of at least 3,654 new homes by 2031.**

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- Policy I.1** Maintain sufficient land designated and appropriately zoned for housing to achieve a complementary mix of single-family and multi-family development to accommodate RHNA allocations at all levels throughout the planning period.
- Policy I.2** Promote infill development in adopted Specific Plan areas where high density residential development can be accommodated in proximity to employment, shopping, transit, recreation, and other services.
- Policy I.3** Recognizing that infill development alone will not be sufficient to meet the City's RHNA obligations, plan holistically to integrate new housing in context sensitive ways on larger vacant properties in the southeast of Monterey to take advantage of opportunities where they exist.
- Policy I.4** Incentivize and facilitate housing development on properties owned by schools, churches, synagogues, mosques, and businesses so that interested property owners can build housing to help meet the needs of the local workforce.
- Policy I.5** Promote development of a variety of housing types, sizes, and densities that meet community needs based on the suitability of the land, including the availability of infrastructure, the provision of adequate services, and recognition of environmental constraints.
- Policy I.6** Continue to partner with and support non-profit and for-profit organizations in their efforts to construct, acquire, and improve housing to accommodate households with lower and moderate incomes.
- Policy I.7** Provide opportunities and facilitate innovative housing approaches in financing, design, construction, and types of housing to increase the variety and supply of lower and moderate-income housing.

### *Programs*

- Program I-A** **Inventory of Available Sites.** Maintain and publish an inventory of properties available for residential development on the City's website, updating it at regular intervals.  
**Responsibility:** Community Development Department  
**Timeframe:** Publish inventory by April 2024; updates to be made quarterly throughout the planning period  
**Objective:** 3,654 new housing units, consistent with RHNA obligations  
**Funding:** General Fund
- Program I-B** **Multi-Family Residential Overlay Amendments.** The City has established a Multifamily Residential (MF) Overlay District, set forth in City Code section 38-99.4 et seq., applicable to properties along Garden Road that permits the conversion of existing commercial and office buildings to housing or the development of new housing at up to

30 du/ac. Garden Road has attracted significant developer interest in recent years and to further facilitate housing development in this area, the City will amend the MF Overlay to (a) increase the maximum permitted density from 30 to 50 du/ac; and (b) consider establishing a minimum density for the area when adequate water supply becomes available.

**Responsibility:** Community Development Department

**Timeframe:** Adopt amendments by end of Q3 2024

**Objective:** Facilitate development of 365 new housing units by Q4 2031

**Funding:** General fund

**Program I-C Specific Plan Updates.** The City has adopted specific plans with the intention of integrating new high density housing into three key commercial areas with good access to employment, shopping, transit, recreation, and other services: Downtown, North Fremont, and Lighthouse Avenue. Buildout of the specific plans will primarily involve infill development, and recognizing the associated challenges, the specific plans incorporate strategies to assist with the financial feasibility of high density infill housing development, including reduced parking requirements and provisions for permitting density above 30 du/ac. As described in Chapter 3, there are additional opportunities to facilitate and incentivize development in the specific plan areas, including increasing permitted building heights to five stories in the Alvarado District (Downtown Specific Plan); increasing permitted density to 45 du/ac on all properties fronting Fremont Street (North Fremont Specific Plan); permitting 100 percent residential projects fronting Lighthouse Avenue (Lighthouse Avenue Specific Plan); offering municipal shared parking agreements to projects that propose a minimum number of new housing units in proximity to a City-owned parking lot or structure (Downtown and Lighthouse Avenue Specific Plans); and incorporating additional incentives for consolidation of adjacent, small lots (Downtown, North Fremont, and Lighthouse Avenue Specific Plans). The City will establish a schedule for updating these specific plans, coordinated with implementation of Program 3-C. Updates will be undertaken sequentially with the goal of updating each specific plan within 18 months of initiation and completing all three updates by the end of Q2 2029.

**Responsibility:** Community Development Department

**Timeframe:** (a) Detailed scope of work and schedule by end of Q2 2024; (b) complete update of first plan and adopt by end of Q4 2025; (c) complete update of all three plans and adopt by end of Q2 2029

**Objective:** Facilitate development of 1,081 new housing units by Q4 2031, including 526 units affordable to lower income households

**Funding:** General fund and grant funding

**Program I-D Permit Streamlining Pilot Project.** The Monterey Peninsula faces an acute shortage of housing that undermines the local economy and the social fabric of its communities. Lack of an adequate water supply is the primary constraint on new housing development; however, the development approval and permitting process in Monterey can add complexity, uncertainty, and cost for housing projects. Therefore, to fast-track infill housing development in core areas of the city identified for high density housing when

adequate water supply becomes available, the City will adopt an ordinance modeled after the Resilient City Development Measures enacted by the City of Santa Rosa following the Tubbs and Nuns fires of October 2017. The ordinance will:

- Allow housing projects by-right in portions of the Downtown and Pacific/Munras/Cass areas with concentrations of housing opportunity sites (see Map 4-1);
- Delegate design review (subject to objective standards enacted pursuant to Program 3-C) to the City staff with the exception of properties in the National Landmark Historic District;
- Establish expedited permitting procedures to reduce the time required for review and approval of planning, engineering, and building permits;
- Remain in force for a period of three years from the date it becomes effective, unless otherwise amended by subsequent action of the City Council.

**Responsibility:** Community Development Department

**Timeframe:** Initiate preparation of the draft ordinance in Q2 2025 and bring the draft ordinance to the City Council for consideration in Q2 2026

**Objective:** 587 new housing units

**Funding:** General Fund

#### **Program I-E**

**Education Workforce Housing Overlay.** The cost of housing on the Monterey Peninsula is a significant barrier to the recruitment and retention of teachers and school district staff. Each year the Monterey Peninsula Unified School District (MPUSD) loses approximately 20 percent of its teaching staff due to a critical housing shortage of housing in the region and the high cost of living. In 2022, the Governor signed into law AB2295, codified as Government Code section 65914.7, intended to facilitate housing development projects on property owned by a local educational agency (LEA). The law exempts LEA housing projects from the provisions of the Surplus Land Act and allows housing at densities deemed affordable to lower income households on properties wholly owned by LEAs, subject to certain conditions. To provide much needed housing for teachers, school district employees, public agency staff, and others in the community, the City will adopt an Education Workforce Housing Overlay and associated development standards that implements AB2295 locally and permits housing development by right at up to 30 du/ac on urban infill sites owned by the MPUSD in the City of Monterey and by interested private schools in the city, subject to compliance with the objective standards adopted as part of the overlay.

**Responsibility:** Community Development Department

**Timeframe:** (a) conduct outreach to MPUSD and private school operators by end of Q2 2024; (b) bring draft ordinance to City Council for consideration in Q1 2025

**Objective:** 100 new housing units, at least 30 percent of which would be made available to lower income households through long-term affordability agreements. Documentation from MPUSD expressing its intent to develop on these sites within the next eight years is attached as Appendix F.

**Funding:** General Fund



**Program I-F Congregational Overlay.** The faith-based community can play an important role in providing affordable housing in Monterey. The City has identified 12 sites owned by religious institutions with potential for redevelopment over the planning period should the owners wish to pursue that option. Current zoning for most of the properties permits housing development; however, cost and familiarity with the development process can be barriers to development even where supportive zoning is already in place. Therefore, to facilitate production of affordable housing projects on properties owned by religious institutions, the City will:

- a. Adopt a congregational overlay and associated objective development standards that permits residential development at up to 30 dwelling units per acre by-right (consistent with Government Code section 65583.2 (h) and (i)) on properties owned by religious institutions where affordable housing is proposed;
- b. Provide a program of technical assistance and development support to faith-based organizations wishing to pursue affordable housing developments on their properties. This may include the preparation of factsheets; introductions to qualified design professionals, construction contractors, property management firms, and affordable housing operators; consultations on navigating the development application process;
- c. Proactively conduct outreach to faith-based organizations in Monterey to raise awareness of programs and incentives available to them for affordable housing development. This may include mailers, phone calls, meetings, and publication of information on the City's website.

**Responsibility:** Community Development Department

**Timeframe:** (a) Rezoning complete within 3 years or 1 year of statutory deadline as applicable; (b) institute program of technical assistance/support in April of year following rezoning; (c) ongoing with regular reporting annually by April of each year thereafter via Annual Progress Report to HCD

**Objective:** 100 new housing units affordable to Low and Very Low Income Households on properties owned by religious facilities

**Funding:** General Fund

**Program I-G Surplus Municipal Parking Facilities.** Two City-owned downtown parking facilities (Lot 14 parking lot on Bonifacio Pl & Adams St and the Calle Principal Garage on Calle Principal near Bonifacio Pl) have been identified as candidates for redevelopment with workforce housing to increase opportunities for hospitality and service workers, teachers, public servants, and others who earn less than 80 percent of the area median income. Both sites are located in the Alvarado District where the Downtown Specific Plan permits residential development at up to 100 du/ac. Through this program, the City will seek to partner with a non-profit developer for the construction of workforce housing on the sites to meet the needs of lower income households in Monterey. In making these properties available for affordable housing development, the City will comply with the requirements of the Surplus Lands Act. City actions for implementation will include:

- Releasing an RFP for the sites in Q2 2024;

- Identifying partner(s) and entering into an Exclusive Negotiating Agreement (ENA) by end of Q4 2024;
- Negotiating Development and Disposition Agreement (DDA), including incentives such as a ground lease and soft costs by end of Q2 2025 so long as there is sufficient guarantee of a water supply for this site.
- Holding regular meetings with developer in order to expedite processing development application and design work with the goal of project approval by end of Q4 2026;
- Completion of construction by end of Q4 is anticipated in 2027.

**Responsibility:** Community Development Department; City Manager's Office

**Timeframe:** Actions and timing as noted above with the goal of completing construction by the end of Q4 2027 if water supply is available

**Objective:** 50 lower income units by 2027

**Funding:** General Fund

**Program I-H Fort Ord/Ryan Ranch Specific Plan.** In a community survey conducted for the Housing Element that garnered over 1,050 responses, the former Fort Ord Military Base was the area of the city identified most favorably for new housing to meet current and projected need. Adjacent Ryan Ranch, home to a regional medical center and office park south of the airport, was also ranked highly as a location for new townhomes and apartments by respondents. Integrating new housing into this area would need to be done carefully and in a way that responds to the variety of preferences and concerns that community members expressed through the survey, as described in Chapter 3. Therefore, the City will prepare a specific plan to establish a clear vision for the area and to guide future development and conservation, identify infrastructure needs and financing mechanisms, and establish measures to ensure sustainable development and adequate resource protection. The overarching objective should be to foster the creation of a mixed-use village on a portion of the site to provide housing, jobs, schools, shops, services and recreation for future residents while also preserving carefully selected areas of natural open space and habitat. The Specific Plan should prioritize housing and mixed-use development on any combination of the parcels shown on Map 3-10 Sites Available for Housing. Additionally, given that the City of Monterey is the property owner, incentives should be incorporated to ensure that at least 220 of the new homes planned will be affordable to moderate income households and at least 220 homes will be affordable to lower income households.

**Responsibility:** Community Development Department

**Timeframe:** (a) identify funding sources and release RFP by end of 2024; (b) complete site remediation work, special status species surveys, and biological study by the end of Q3 2026; (c) bring draft specific plan to City Council for adoption in Q4 2028

**Objective:** 1,600 new housing units, including 220 homes affordable to moderate income households and 220 homes affordable to lower income households

**Funding:** General Fund and grant funding

**Program I-I Highway 68 Area Plan Update.** MPUSD owns a vacant 50-acre parcel on relatively flat land, east of Tarpey Flats and south of Highway 68 and the Monterey Regional Airport. The Highway 68 Area Plan envisions a mix of up to 300 low and moderate income housing units on this property if MPUSD declares the property surplus, and the Plan provides policy direction and design guidelines that could serve as a starting point for planning of the site and surroundings. Through this program, the City will update the Highway 68 Area Plan to facilitate development of mixed income housing, access and infrastructure improvements, and neighborhood services and amenities on the site. The Highway 68 Area Plan Update should identify portions the site for low-medium density housing, high density housing, and open space preservation, including creation of a parcel or parcels no greater than 10-acres in size for development at densities deemed appropriate to accommodate housing for lower income households; incorporate regulatory or process incentives to facilitate on-site provision of housing for households with limited financial resources; establish a basis for the City, MPUSD, and Monterey County to jointly pursue an Enhanced Infrastructure Financing District (EIFD) to help fund the cost of infrastructure to support development of the site.

**Responsibility:** Community Development Department

**Timeframe:** (a) identify funding sources and release RFP by end of 2026; (b) bring draft specific plan to City Council for adoption in Q3 2031

**Objective:** 640 new housing units, including 145 homes affordable to moderate income households and 145 homes affordable to lower income households

**Funding:** General Fund and grant funding

**Program I-J SB 9 Housing Ordinance.** SB 9 allows division of lots in single-family residential districts to facilitate the development of smaller scale housing that may be more affordable in existing neighborhoods. The new requirements, which are codified in Government Code sections 65852.21.21 and 66411.7, require ministerial approval of a housing development with no more than two primary units in a single-family zone or subdivision of a parcel in a single-family zone into two parcels subject to compliance with objective development standards and requirements in the State law. This program commits the city to enacting regulations to comply with SB 9 and to promote and facilitate SB9 housing as appropriate in Monterey.

**Responsibility:** Community Development Department

**Timeframe:** As part of an omnibus Code clean up effort, prepare revisions to Zoning Code to comply with State law and bring to City Council for adoption by end of 2024

**Objective:** Comply with State law

**Funding:** General fund (staff time)

**Program I-K Employer Sponsored Housing.** The availability and cost of housing is a significant impediment to hiring and retention of employees for Monterey businesses. The Community Hospital of the Monterey Peninsula (CHOMP) has expressed interest in potentially building employee housing on property they own and other local businesses may also be interested. Therefore, the City will conduct outreach to major employers in the city to gauge interest in employee sponsored housing and discuss potential zoning

mechanisms that could facilitate housing development for interested employers. If appropriate, the City will develop an overlay or comparable zoning mechanism to facilitate development of employee housing on properties they own, subject to objective standards.

**Responsibility:** Community Development Department

**Timeframe:** (a) complete outreach in Q4 2023; (b) if appropriate, adopt an Employer Sponsored Housing Overlay and related objective standards by the end of Q3 2026

**Objective:** Increase housing options for those employed in the City of Monterey

**Funding:** General Fund

## **Housing Goal #2. Remove or reduce barriers to housing production in Monterey and address the regulatory, process, and market factors that limit and adversely affect affordability.**

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- Policy 2.1** Review and revise use permit and design review thresholds including expanding number and type of housing projects allowed by-right.
- Policy 2.2** Increase flexibility in development standards including building heights, parking, and other requirements.
- Policy 2.3** Develop zoning standards to encourage smaller multi-unit housing types including fourplexes, townhouses, and rowhouses.
- Policy 2.4** Reduce constraints to the development of Accessory Dwelling Units.
- Policy 2.5** Ensure that City fees are equitable and reflect reasonable cost of reviewing projects.
- Policy 2.6** Remove obstacles to the development of Single Room Occupancy housing and other affordable options available to individuals and households who are unsheltered and those transitioning from homelessness.

### *Programs*

**Program 2-A** **By-Right Rezoning Sites from Prior Inventories.** A number of the non-vacant commercial sites identified on the housing sites inventory were included on two prior Housing Element inventories and identified to accommodate lower income RHNA units (see Map 4-2). As these sites are also anticipated to accommodate lower income RHNA during the 2023-31 planning period, the City will create a zoning provision to allow developments by-right pursuant to Government Code section 65583.2(i) when 20 percent or more of the units are affordable to lower income households.

**Responsibility:** Community Development Department

**Timeframe:** Complete rezoning by end of Q4 2024

**Objective:** Support meeting RHNA obligations, including development of 1,177 units affordable to very low income households and 769 affordable to low income households over the planning period

**Funding:** General Fund

**Program 2-B** **Permit Thresholds for Multi-Family Projects.** The Zoning Code requires a use permit for multi-family projects with four or more units in R-2, R-3, C-1, C-2, C-3, CO, and CR Districts and for mixed-use projects including residential units in the districts where the Code allows them. As noted below, the same requirements apply to supportive and transitional housing with four or more units. In most cases, these projects also require design review. These requirements are a constraint to development of small multi-family projects including those with 5,000 square feet of floor area or less on sites where a non-residential build of the same size would be permitted by-right. As part of the process of bringing its zoning into compliance with the General Plan and

Housing Element, the City will review its permit thresholds and identify revisions to eliminate disparate treatment of residential projects.

**Responsibility:** Community Development Department

**Timeframe:** Detailed scope of work and schedule by mid-2024

**Objective:** Comply with State law requiring that decisions on residential projects be based on objective design standards.

**Funding:** General fund (staff time)

**Program 2-C** **ARC Review.** The City will revise the Code to state that the Architectural Review Committee (DRC) will review residential projects for compliance with objective development and construction requirements rather than subjective design guidelines. ARC review needs to focus on development features that may conflict with construction standards such as public safety access and the California Building Code, Title 24, requirements for disability access.

**Responsibility:** Community Development Department

**Timeframe:** End of Q1 2025

**Objective:** Comply with State law requiring that decisions on residential projects be based on objective design standards

**Funding:** General fund (staff time)

**Program 2-D** **Revise Adopted Plans with Objective Standards.** The City has revised several of the specific plans covering areas within and near the downtown area to include modified parking requirements for residential projects and make other changes identified as constraints to housing development, but these plans also include policies, standards and guidelines that use imprecise terms that rely on subjective judgment. The City will establish a schedule for review and revision of all adopted plans, including specific and neighborhood plans, to ensure that they comply with applicable State requirements. In addition to establishing objective policies and standards, pursuant to State law, Specific Plans must be consistent with the General Plan. (California Government Code section 65454).

**Responsibility:** Community Development Department

**Timeframe:** (a) detailed scope of work and schedule by end of Q3 2024; (b) target adoption by end of Q2 2029

**Objective:** Comply with State law requiring that decisions on residential projects be based on objective design standards

**Funding:** General fund (staff time)

**Program 2-E** **Revise Parking Requirements.** Amendments to State law enacted in 2023 (AB 2097), amending Government Code section 65585 and adding Government Code section 65863.2, generally prohibit public agencies from imposing minimum parking requirements within a half-mile of public transit. The City will need to revise parking requirements to reduce the minimum requirements to one space per unit for all units

located within one half mile of public transit. In addition, the City should reduce the base parking requirements for mixed-use sites so that they reflect the maximum demand for parking at any one time, rather than the sum of the requirements for all individual uses. The City will revise the Zoning Code to ensure its parking requirements conform to the requirements applicable to areas within a half-mile of public transit and will also initiate an evaluation of all parking requirements for residential uses to identify regulations that applicants identify as a constraint to affordable housing development and propose revisions to the Code.

**Responsibility:** Community Development Department

**Timeframe:** (a) As part of an omnibus Code clean up effort, adopt revisions Zoning Code to comply with changes to State law and bring to City Council for adoption by end of 2023; (b) detailed scope of work and schedule for parking study by end of 2023

**Objective:** Comply with State law requiring reduced parking within a half mile of transit and undertake study as a basis for additional revisions to parking requirements

**Funding:** General fund (staff time)

**Program 2-F** **Update Density Bonus Ordinance.** New State laws pertaining to density bonuses were enacted in 2023: AB 2334, which amended Government Code section 65915, makes important changes to the Density Bonus Law to define development capacity; and AB 1551, set forth in Government Code section 65915.7, reinstates the ability to seek State Density Bonus Law benefits for commercial projects. Additional bonuses (including up to 80 percent for completely affordable projects) are now available. This program commits the City to updating its density bonus ordinance to incorporate the new requirements.

**Responsibility:** Community Development Department

**Timeframe:** As part of an omnibus Code clean up effort, prepare revisions to Zoning Code to comply with State law and bring to City Council for adoption by end of 2024

**Objective:** Comply with State law

**Funding:** General fund (staff time)

**Program 2-G** **Prepare Local Coastal Program (LCP).** Because Monterey has not yet adopted a Local Coastal Program (LCP) and implementation plan for certification by the State Coastal Commission, new housing in the coastal zone requires Coastal Commission review and approval of a Coastal Development Permit for most new development with possible exception of individual single-family development. The City will prepare an LCP for Coastal Commission that meets all applicable requirements at the same time it prepares a hearing on the draft of Zoning Code update so it can be submitted to Coastal Commission for review and approval immediately following City Council action on the Zoning Code update.

**Responsibility:** Community Development Department

**Timeframe:** Adoption by end of Q4 2024

**Objective:** Comply with State law requiring that decisions on residential projects be based on objective design standards

**Funding:** General fund (staff time)

**Program 2-H** **Expand Online Transparency.** Government Code section 65940.1 requires cities and counties to provide transparency in publicizing land use controls and fees. The Planning Office website provides links to a variety of resources as well as links to downloadable versions of Land Use Plans, Regulations, and Studies. The City must also continue to ensure that the on-line version of the City Code is regularly updated and that revisions to review procedures are available on-line as well as in handouts at the Planning counter. This program commits the City to ensuring these requirements are met and to addressing the recently enacted regulations in Government Code section 65913.3 requiring cities to compile lists specifying information applicants must provide to obtain post-entitlement phase permits. These requirements are effective at the end of 2023 but the City may be eligible for an extension.

**Responsibility:** Community Development Department

**Timeframe:** Comply with State requirements or obtain an exemption by the end of 2023

**Objective:** Comply with State requirements

**Funding:** General fund (staff time)

**Program 2-I** **Inclusionary Zoning.** Chapter 8 of the City Code establishes a requirement that a minimum of 20 percent of the units in any project with more than six new housing units be made permanently affordable to moderate- and low-income households for the life of the project. The inclusionary requirements are an important mechanism for increasing the total stock of affordable homes in the community over time. As a matter of practice, projects subject to the City's inclusionary requirement typically comply by making 10 percent of the proposed units available to moderate income households and 10 percent available to low income households. Through this program, the City will amend the Code to codify this as a requirement.

**Responsibility:** Community Development Department

**Timeframe:** Adopt amendments by the end of Q4 2024 as part of an omnibus Code clean up effort

**Objective:** Facilitate development of below market rate units, including 1,946 lower income units and 462 moderate income units

**Funding:** General fund (staff time)

**Program 2-J** **Water Distribution Policy.** As detailed in Appendix C, Housing Constraints, the State Water Resources Control Board has put in place a Cease-and-Desist Order that effectively prohibits new water hookups or increased water use in Monterey. Consequently, the City cannot approve housing projects that would result a net increase in water consumption until the water supplier, the California American Water Company, has terminated illegal diversions from the Carmel River and a new water supply is in operation. Additional water supply is anticipated to become available starting in 2025 if the California Public Utilities Commission authorizes Cal-Am to enter into a water purchase agreement for the Pure Water Monterey expansion project, with supply to the City of Monterey increasing incrementally as new sources come online. Additional



water sources are being explored for feasibility and are also anticipated to increase the overall water supply for the City. Therefore, the City will develop a methodology for allocating water credits and additional supply that prioritizes affordable housing projects. The methodology will consider the overall size of the project, the number of affordable units proposed, and the level of affordability proposed.

**Responsibility:** Community Development Department

**Timeframe:** Adopt a Water Distribution Policy by the end of Q4 2024

**Objective:** Support development of 1,946 lower income units by Q4 2031

**Funding:** General fund (staff time)

**Program 2-K Addressing Water Supply Constraints.** The primary constraint to development on the Monterey Peninsula is water supply. While new sources of water supply are anticipated to become available during the planning period, the City does not currently have access to sufficient water to support development of its full RHNA allocation. Therefore, the City will the City continue to work with other jurisdictions and agencies to augment the existing water supply with the following actions:

- Support efforts by the Monterey Peninsula Water Management District (MPWMD) and the California American Water Company (Cal-AM) to expand the water supply, including the Sand City desalination plant, Pebble Beach water recycling facility, and new lawful rights in the Carmel River;
- Continue to work with MPWMP and Cal-AM to develop water conservation methods (e.g., low flow fixtures, instant hot water heaters, cisterns/rain gardens) to augment water for new development projects;
- Upon adoption of the Housing Element, provide a copy of the Element to MPWMP and Cal-AM to facilitate prioritization of adequate supply for affordable housing projects, in compliance with AB 1087.

**Responsibility:** Community Development Department

**Timeframe:** (a) coordinate regularly with water providers starting Q1 2024; (b) send adopted Housing Element to MPWMD and Cal-Am by end of Q1 2024

**Objective:** Support development of 3,654 new homes by Q4 2031

**Funding:** General fund (staff time)

**Program 2-L Moratorium on Vehicle Storage.** The Multifamily Residential Overlay applies to properties in the Industrial, Administration, and Research District (I-R District) along Garden Road. These sites represent important opportunities for high density infill housing in Monterey and have attracted interest from residential developers in recent years; however, water constraints limit the potential for housing in the short-term while the cease-and-desist order remains in place. Until new sources of water supply come online, there is a risk that these sites may develop with uses such as vehicle storage that generate revenue but do not require new water connections. Therefore, to protect these sites for high density housing to meet community need, the City will adopt an urgency ordinance prohibiting vehicle storage uses in the I\_R district for a period of three years.

**Responsibility:** Community Development Department

**Timeframe:** Adopt urgency ordinance by the end of Q1 2024

**Objective:** Preserve housing sites in the Multifamily Residential Overlay District

**Funding:** General Fund

**Housing Goal #3. Provide for fair and equal housing opportunities for all persons, regardless of protected characteristics such as age, sex, family status, race, creed, color, or national origin, etc.**

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**Policy 3.1** Enforce fair housing laws and address discrimination in the building, financing, selling, or renting of housing based on protected characteristics such as race, religion, family status, national origin, disability, color, sex, gender, gender expression, sexual orientation, or other protected class.

**Policy 3.2** Work collaboratively with local non-profit, public, and private sector partners to raise awareness and achieve implementation of fair housing practices.

**Policy 3.3** Promote a wider variety of housing types in High Resource areas of Monterey.

**Policy 3.4** Expand housing choices for special needs groups throughout Monterey to better accommodate the varied housing needs of current and future residents.

**Policy 3.5** Ensure that the City's regulations, policies, practices, and procedures provide equal access to housing for all persons.

*Programs*

**Program 3-A Legal Services and Fair Housing Education.** Continue to contract with a fair housing counseling group in providing legal services (mediation and the processing of fair housing complaints) and fair housing education, both of which can assist in the prevention of discrimination against such households. Each year, the City's fair housing counseling group uncovers and helps to resolve cases of housing discrimination, including cases of housing discrimination based on protected characteristics such as race, color, national origin, religion, sex, familial status, and disability. Additional specific actions will include:

- Making information detailing fair housing practices available at City Hall and on the City's website;
- Partnering with a fair housing counseling group to conduct workshops and seminars about landlord and tenant responsibilities and rights.

**Responsibility:** Community Development Department

**Timeframe:** Beginning in Q1 2024, (a) provide funding annually to a fair housing counseling group to; (b) publish information on City website and update annually as appropriate; (c) conduct workshops or seminars annually.

**Objective:** Provide fair housing support services for 75 persons annually during each year of the planning period

**Funding:** CDBG funds

**Program 3-B Housing for ELI Households and Persons with Special Needs.** Recognizing that local funding capacity for affordable housing has been severely diminished by the dissolution of redevelopment agencies, the City will continue to facilitate production of affordable housing, including units targeted to extremely low income (ELI) households and persons with special needs (elderly, disabled/developmentally disabled, large households, female-headed households, the unhoused, and farmworkers), through the following efforts:

- Provide administrative assistance upon request to developers seeking available State and federal funding and/or tax credits for the construction of low- and moderate-income housing;
- Facilitate projects that incorporate affordable units, including units targeted to ELI households and persons with special needs, by granting modifications to development standards, expediting the review process, and/or providing financial incentives consistent with City regulations and State law;

**Responsibility:** Community Development Department

**Timeframe:** Beginning in Q1 2024

**Objective:** 25 units for ELI households and persons with special needs during the planning period

**Funding:** CDBG funds

**Program 3-C Local Density Bonus.** Enact a local density bonus program that offers additional density over the maximum base permitted in the Monterey City Code as an incentive for projects that consolidate small, adjacent lots and/or develop 2- and 3-bedroom units; and/or commit to additional Moderate Income units over and above any provision of such units required under the City's Inclusionary Zoning Program. The local density bonus program would complement additional density available to qualifying projects under State Density Bonus law with the objective of addressing particular local constraints and needs. The prevalence of parcels less than 0.5 acres in size in centrally located parts of the city is a constraint on infill development and the city has a relatively high rate of overcrowding, due in part to the fact that a disproportionate share of large households live in poverty.

**Responsibility:** Community Development Department

**Timeframe:** Adopt local density bonus provisions by Q2 2025

**Objective:** Facilitate development of 300 units affordable to lower income households, 93 units affordable to Moderate Income households, and 75 rental units with two or three bedrooms over the planning period

**Funding:** General Fund

**Program 3-D Family-Sized Rental Units.** Prioritize resources such as HOME Investment Partnerships Program (HOME) funds, California Housing Finance Agency single-family and multiple-family programs, HUD Section 208/811 loans for the development of rental projects that provide units with two or three bedrooms.

**Responsibility:** Community Development Department

**Timeframe:** Beginning in Q1 2024

**Objective:** Promote the development of 20 rental units with two or three bedrooms over the planning period

**Funding:** CHFA funds; HUD loans; HOPE funds; HOME funds

**Program 3-E Home Sharing and Tenant Matching.** Home-sharing and tenant matching programs pair existing homeowners with renters in need of space, and may also offer supportive services such as background checks, applicant interviews/screening, and facilitation of living together agreements. These programs make efficient use of existing housing stock and provide affordable rental rates without the need for new construction. Home sharing can be a particularly effective tool to support independent living for seniors and disabled residents while also increasing local housing opportunities for students and lower income earners who work in Monterey County. There are currently no home-sharing/tenant matching programs operating on the Monterey Peninsula; however, United Way is studying the feasibility of expanding its 211 service to include such a program. Through this program, the City will support United Way in this initiative, promoting participation by local homeowners by providing information via the website, City newsletters, and public contact events, referring interested parties to United Way of Monterey County.

**Responsibility:** Community Development Department

**Timeframe:** Beginning in Q1 2024, (a) publish information on City website and update annually as appropriate; (b) publicize the program in City newsletters annually; (c) conduct public outreach annually

**Objective:** 100 home sharing matches over the planning period, with geographic targeting to homeowners in High Resource neighborhoods

**Funding:** General Fund and partnership with nonprofit

**Program 3-F Affirmative Marketing of Affordable Housing Opportunities.** Western and central areas of Monterey are designated High or Highest Resource areas by the California Tax Credit Allocation Committee (CTCAC), which facilitates the investment of private capital into the development of affordable rental housing for low-income Californians. In order to increase access to High/Highest Resource areas for Low, Very Low, and Extremely Low income households and special needs populations (including older adults, the disabled (including developmentally disabled), large households, female-headed households, people experiencing homelessness, and farmworkers), the City will encourage and facilitate affordable housing development in Monterey by:

- Preparing information on available sites and potential opportunities for affordable housing in Monterey, updating and distributing it annually to affordable housing developers;
- Conducting targeted outreach to housing developers with experience in development projects that include units affordable to extremely low income households and households with special needs;

- Continuing to provide technical assistance to housing developers to assist with the development application process;
- Annually exploring various sources (e.g., HCD and HUD) for funding opportunities, including those available for housing for extremely low income and special needs households; and
- Supporting applications for affordable housing funds for projects or programs that are consistent with the goals and objectives of the Housing Element.

**Responsibility:** Community Development Department

**Timeframe:** (a) Prepare materials by Q2 2024; (b) prepare list of experienced developers and contact them by end of Q3 2024; (c) conduct outreach in Q1 2025 and annually thereafter.

**Objective:** Facilitate development of 1,177 units affordable to very low income households and 769 affordable to low income households over the planning period.

**Funding:** General Fund

**Program 3-G Zoning Incentives for Deed Restricted ADUs/JADUs.** ADUs and JADUs can be an important source of affordable housing to help meet the needs of lower income seniors and people who work in Monterey. The City will amend the Zoning Code to incentivize the development of ADUs and JADUs made available to households earning less than 80 percent of the Monterey County annual median income through a binding commitment to rent-restrict. Incentives may include:

- Increasing the maximum allowable lot coverage permitted by-right to 50 percent;
- Increasing the maximum allowable FAR permitted by-right to 50 percent;
- Allowing two detached or attached ADUs on lots over 8,000 square feet in size where slope does not exceed 25 percent and where trees removed are replace at a ratio of 3:1.

**Responsibility:** Community Development

**Timeframe:** Update Zoning Code to enact incentives by end of Q1 2026

**Objective:** Construction of 10 new ADUs/JADUs affordable to lower income households annually over the planning period, with geographic targeting to homeowners in high resource neighborhoods

**Funding:** General Fund (staff time)

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**Housing Goal #4. Take action to prevent homelessness and address the needs of unhoused people.**

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**Policy 4.1** Preservation and Rehabilitation. Continue to prioritize funding for the acquisition, rehabilitation, and preservation of affordable housing stock in the community and funding to assist low-income homeowners with home repair, rehabilitation, and accessibility improvements that keep people in their homes.

**Policy 4.2** Prevention Resources. Connect those most at risk of becoming unhoused to programs and services that will help prevent them from losing their homes.

- Policy 4.3** Housing First. Focus on “housing first” as a way of transitioning those who are unhoused to permanent housing.
- Policy 4.4** Continuum of Housing. Increase access to a continuum of housing, including emergency shelters, transitional housing, and supportive housing, to bridge the gap from homelessness to permanent housing by offering structure, supervision, support, and life skills training.
- Policy 4.5** Continuous Improvement. Monitor the effectiveness of existing programs through the Consolidated Annual Performance and Evaluation Report (CAPER) process and explore opportunities for additional homelessness prevention, response, and services.
- Policy 4.6** Collaborative Approach. Continue to cooperate and coordinate with other jurisdictions and public service organizations to address the needs of the unhoused in the community.

*Programs*

**Program 4-A Multi-Disciplinary Outreach Team (MDOT).** The Monterey Police Department’s (MPD) MDOT works side-by-side with various governmental and non-governmental organizations to offer, provide, and find solutions for those who are unhoused. In 2023, the MPD MDOT team will expand its capacity to serve the unhoused with the recent City Council approval of a “Homeless Navigator position” to be added to the MPD MDOT team during the FY23-24 budget. MPD will also open an Outreach and Navigation Center at the Old French Consulate building adjacent to Lake El Estero in a waterfront location to better serve the public and the unhoused. In the most recent “point-in-time” homeless count, there was a 50 percent decrease in the number of homelessness in the City between 2019 and 2022, the largest decrease of any community in Monterey County. Through this program, the City will:

- Provide workstations at the Monterey Police Department for service provider staff to facilitate solutions for the unhoused and collaboration with MPD officers;
- Connect unhoused people with domestic violence workers, social workers, women's services, adult protective services, mental health and drug treatment programs, veterans programs, long-term housing solutions; and other relevant services;
- Abate illegal encampments to prevent beach erosion, public health problems, environmental damage, nuisance conditions, and fire hazards; and
- Publish information about these collaborative efforts via the City website.

**Responsibility:** Monterey Police Department; local service providers

**Timeframe:** Ongoing with community reports throughout the planning period and annual reports through the CAPER process

**Objective:** To continue to address and find resolution for the unhoused over the planning period

**Funding:** General Fund

**Program 4-B Rental Assistance Pilot Program.** Rental assistance is an effective way to prevent homelessness and improve housing security. Nearly half of all households in the City

Monterey are considered cost burdened, meaning they devote more than 30 percent of their annual income to housing costs and are at high risk of becoming homeless. Large families and low-income seniors are disproportionately affected by severe cost burden. While the Housing Authority of the County of Monterey (HACM) provides rental assistance through the federal Housing Choice Voucher (Section 8) Program, the program is fully subscribed and there are an additional 1,500 households on the voucher waiting list. To help address the urgent need, the City will establish a rental assistance program that provides lower income renter households with recurring rental assistance at a fixed rate (known as a shallow subsidy) to help improve housing stability and prevent displacement. The City has \$250,000 in the General Fund to support this initiative.

**Responsibility:** City Manager

**Timeframe:** Beginning Q1 2024

**Objective:** Provide shallow subsidies to 20 lower income households per year throughout the planning period

**Funding:** General Fund

**Program 4-C Housing Rehabilitation Program.** The City administers and manages a Housing Rehabilitation Program which encompasses a variety of home repair grants and loans intended to improve the condition of substandard owner-occupied single-family homes, with special emphasis placed on the remediation of health and safety housing issues. The program coordinator works closely with participating homeowners, helping to select a contractor, supervising construction along with the contractor, and inspecting all work completed - all at no cost to the homeowner. The City will continue to implement this program to help low income senior homeowners remain in their homes.

**Responsibility:** Housing Office

**Timeframe:** Beginning Q1 2024 with annual reporting the CAPER process

**Objective:** Repairs to 25 lower income homes

**Funding:** CDBG

**Program 4-D Classify Residential Care Facilities as Residential Uses.** The Monterey Zoning Code classifies licensed residential care facilities providing 24-hour- a-day care to six or fewer persons with non-medical conditions as a residential use. Residential care facilities, limited, are permitted in all residential districts (R-E, R-1, R-2, and R-3). In contrast, State-licensed residential care facilities providing 24- hour-a-day care to seven or more persons with non-medical conditions, are categorized as a type of public/semipublic facility. Residential care facilities, general, require a conditional use permit in all residential districts (R-E, R-1, R-2, and R-3). This program proposes revising the Zoning Ordinance to classify all licensed residential care facilities as a residential use that is permitted by-right or, in the case of facilities that exceed a specific threshold, by approval of the Director in districts where residential uses are allowed and include a definition for residential care facility that complies with State law. Facilities will be subject to objective standards, such as providing employee parking, to ensure the facilities are a good fit in the areas where they are established.

**Responsibility:** Community Development Department

**Timeframe:** As part of an omnibus Code clean up effort, prepare revisions to Zoning Code to comply with State law and bring to City Council for adoption by end of 2024

**Objective:** Compliance with State law

**Funding:** General fund and staff time.

**Program 4-E Eliminate Use Permit Requirements for Supportive and Transitional Housing.** The Monterey Zoning Code includes definitions for supportive and transitional housing that distinguish these housing types based on the length of tenure. The definition for supportive housing states that this housing is occupied by a target population and is linked to on-site or off-site services. The definition of transitional housing is identical to the one in Government Code section 65582 of the Housing Element law that buildings are configured as rental housing developments but makes no reference to the provision of services. The City requires a use permit for supportive and transitional housing with four or more units, although residents of supportive housing facilities may live in a single unit and both types of facilities may be operated as group housing. Program 2-B, which will eliminate the disparate treatment of residential and non-residential projects with comparable development characteristics, will help to eliminate this obstacle. The Code should also be revised to clarify that the conversion of an existing multi-family housing development to accommodate supportive or transitional housing does not require a new use permit.

**Responsibility:** Community Development Department

**Timeframe:** As part of an omnibus Code clean up effort, prepare revisions to Zoning Code to comply with State law and bring to City Council for adoption by end of 2024

**Objective:** Comply with State law requiring that decisions on residential projects be based on objective standards

**Funding:** General fund (staff time)

**Program 4-F Allow Low Barrier Navigation Centers in Mixed-Use and Nonresidential Districts.** In 2015, Monterey established the Safe Parking Program (City Code section 38-126), which allows the use of existing parking lots on a temporary basis to provide individuals and families living in vehicles with a safe place to park overnight while working towards a transition to permanent housing. Actions the city needs to take in response to the needs of the unhoused include revising the Zoning Code to comply with Government Code Section 65662 to allow a Low Barrier Navigation Center (LBNC) permitted by-right in mixed-use districts and nonresidential zones that permit multifamily development. A LBNC is defined as a "housing-first, low-barrier, temporary, services-enriched shelter focused on helping homeless individuals and families to quickly obtain permanent housing." This program also commits the City to establishing a definition of "emergency shelters," to comply with Government Code section 65583(a)(4), and to distinguish emergency shelters, which are temporary housing, from residential care facilities. As required by State law, the revised Code must ensure that zones where shelters are located near amenities and services that serve homeless individuals.

**Responsibility:** Community Development Department



**Timeframe:** As part of an omnibus Code clean up effort, prepare revisions to Zoning Code to comply with State law and bring to City Council for adoption by end of 2024

**Objective:** Compliance with State law

**Funding:** General fund and staff time

**Program 4-G Recognize Single-Room Occupancy (SRO) Units as a Housing Type.** A single room occupancy unit provides living and sleeping space for the exclusive use of the occupant but requires that the occupant share sanitary and/or food preparation facilities with others. These spaces are also known as co-living spaces or micro-apartments. Monterey's current regulations do not recognize Single-Room Occupancy (SRO) units as a type of housing. The Lighthouse Area Specific Plan includes a definition for Single Room Occupancy (SRO) facilities but does not specify what type of approval Monterey requires for this land use. The Housing Action Plan (Chapter 4) commits the city to revising the Zoning Ordinance and other related City regulations to recognize that SRO units, even if rented for less than 30 days, are housing. SRO units should, at a minimum, be permitted in some commercial and higher density residential.

**Responsibility:** Community Development Department

**Timeframe:** As part of an omnibus Code clean up effort, prepare revisions to Zoning Code to comply with State law and bring to City Council for adoption by end of 2024

**Objective:** Facilitate the development of an alternative type of housing that can accommodate low- and very low-income households transitioning from or avoiding homelessness

**Funding:** General fund (staff time)

**Housing Goal #5. Continue to promote sustainability and energy efficiency in residential development to lower energy use through energy-efficient urban design and through better design and construction in individual projects.**

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**Policy 5.1** Promote energy conservation programs and incentives, including those offered by Central Coast Community Energy.

**Policy 5.2** Encourage the incorporation of energy conservation design features in existing and future residential developments to conserve resources and reduce housing costs.

**Policy 5.3** Encourage the use of building placement, design, and construction techniques that promote energy conservation, including green building practices, the use of recycled materials, and the recycling of construction and demolition debris.

*Programs*

**Program 5-A Energy Efficient Design.** Promote the use of solar energy and other environmentally sound, energy efficient methods for heating and cooling homes, consistent with adopted building, mechanical and plumbing codes. Provide information through the website and

newsletters to residents, highlighting the availability of financial incentives available through federal, State, and local government programs such as those offered by Central Coast Community Energy.

**Responsibility:** Community Development Department; Building and Safety Division

**Timeframe:** 2023-2031

**Objective:** Promote energy efficiency

**Funding:** General Fund

**Program 5-B Green Building Incentives.** Evaluate the feasibility of offering incentives for residential and mixed-use projects built to green building standards that exceed the requirements of Title 24 California Code of Regulations, Part 11 (CalGreen). Incentives may include density/intensity bonus, fee waivers, or expedited processing. Harmonize incentives with those provided for high density multifamily projects in the Specific Plan areas.

**Responsibility:** Community Development Department; Public Works Department

**Timeframe:** 2023-2031

**Objective:** Promote energy efficiency

**Funding:** General Fund

**Program 5-C Sustainable Design.** Encourage and facilitate environmentally sensitive construction practices by:

- Restricting the use of chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), and halons in mechanical equipment and building materials;
- Promoting the use of products that are durable and allow efficient end-of-life disposal (recyclable);
- Requiring large project applicants to submit a construction waste management plan for City approval;
- Promoting the use of locally or regionally available materials; and
- Promoting the use of cost-effective design and construction strategies that reduce resource and environmental impacts.

**Responsibility:** Community Development Department; Sustainability Division

**Timeframe:** 2023-2031

**Objective:** Promote energy efficiency

**Funding:** General Fund

**Housing Goal #6. Monitor the effectiveness of housing programs to ensure that they respond to housing needs.**

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- Policy 6.1** Ensure that the City is meeting State requirements as well as the housing needs of current and future residents by developing and carrying out procedures for tracking progress toward achieving adopted housing goals and objectives.
- Policy 6.2** Work with community groups, other jurisdictions and agencies, non-profit housing sponsors and the building and real estate industry when implementing Housing Element programs.
- Policy 6.3** Provide outreach and information to the community on the availability of programs to address individual housing needs, and will actively involve the community through information, outreach, and review.

*Programs*

**Program 6-A Adequate Sites Available to Meet RHNA.** To ensure adequate sites remain available for residential development to accommodate the City’s Regional Housing Need Allocation (RHNA) for all income categories, the City shall annually review its Available Land Inventory to ensure Monterey can accommodate its share of the RHNA throughout the planning period. As development projects are considered, the City shall not take action to permit fewer units on a site than projected on the Available Land Inventory unless: 1) the reduction is consistent with the general plan and housing element; and 2) the remaining sites identified in the Available Land Inventory are adequate to accommodate the City’s share of the RHNA. If the remaining sites are not adequate to accommodate the City’s share of the RHNA, the City will identify (and rezone, if necessary) sufficient additional sites to meet RHNA.

**Responsibility:** Community Development Department

**Timeframe:** Complete review and submit report by April 1 of every year

**Objective:** Conduct review and submit report to State Department of Housing and Community Development as required

**Funding:** General Fund

**Program 6-B Annual Review.** In conjunction with State requirements for preparation and submittal of annual housing progress report (Government Code section 65400), evaluate Housing Element implementation. Provide opportunities for public review and comment and submit to Planning Commission and City Council for review and any necessary action.

**Responsibility:** Community Development Department

**Timeframe:** Complete review and submit report by April 1 of every year

**Objective:** Conduct review and submit report to State Department of Housing and Community Development as required

**Funding:** General Fund

**Program 6-C ADU/JADU Monitoring.** Monitor ADU and JADU permitting/construction trends and affordability in Monterey, reporting performance in its Housing Element Annual Progress Reports. If actual performance is not in line with projections in January 2027,

the City will review and take action as needed to ensure compliance with "no-net loss" provisions of State law.

**Responsibility:** Community Development Department

**Timeframe:** (a) reporting with annual report to HCD in April 2024; annually by April of each year thereafter (b) Q2 2027 for corrective action evaluation (if needed)

**Objective:** Track progress toward Sixth Cycle RHNA production goals ensure compliance with State law

**Funding:** General Fund

**Program 6-D Development and Replacement Unit Requirements.** The replacement of lower income units affordable to the same or lower income level is required as a condition of any development on a non-vacant site identified in the Housing Element, consistent with those requirements set forth in Government Code section 65915(c)(3). Replacement requirements apply to sites identified in the inventory that currently have residential uses, or within the past five years (based on the date the application for development was submitted) have had residential uses that have been vacated or demolished, and were:

- Subject to a recorded covenant, ordinance, or law that restricts rents to levels affordable to persons and families of low or very low-income; or
- Subject to any other form of rent or price control through a public entity's valid exercise of its police power; or
- Occupied by low or very low-income households.

The City will not approve a housing development project that requires the demolition of residential dwelling units regardless of whether the parcel was listed in the inventory unless the project will create at least as many residential dwelling units as will be demolished, and the affordability criteria stipulated in Government Code section 66300(d) are met.

**Responsibility:** Community Development Department

**Timeframe:** Beginning in Q1 2024

**Objective:** Protection of existing housing

**Funding:** General fund (staff time)



**APPENDIX**

**MATERIALS FOR  
CULTURAL RESOURCES**

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June 16, 2023

NWIC File No.: 22-1686

Claire Villegas  
Dyett & Bhatia  
Urban and Regional Planners  
4001 Howe Street  
Oakland, CA 94611

Re: Record search results for the proposed City of Monterey General Plan Update.

Dear Claire Villegas:

Per your request received by our office on May 1<sup>st</sup>, 2023, a records search was conducted for the above referenced project by reviewing pertinent Northwest Information Center (NWIC) base maps that reference cultural resources records and reports, historic-period maps, and literature for Monterey County. Please note that use of the term cultural resources includes both archaeological resources and historical buildings and/or structures.

The proposed project will identify sites available for housing within the City limit and include a realistic projection of their capacity, along with policies and programs to address special needs groups and constraints to housing production. Additionally, the Project will identify new strategies to address risk associated with natural hazards and climate change and may result in revisions to land use regulations to ensure consistency with the 2019 Monterey Regional Airport Land Use Compatibility Plan.

Review of the information at our office indicates that there have been four hundred fifty (450) cultural resource studies that include portions of the City of Monterey General Plan Update project area. See attached Report List. This City of Monterey General Plan Update project area contains eighty-one (81) recorded archaeological resources, including thirty-nine (39) recorded Native American archaeological resources, and forty-two (42) historic-period archaeological resources. See attached Resource List. In addition, there are three (3) Informal Resources; C-874, C-1301, and C-1554. These sites include two historic refuse scatters, and site of the Armed Forces YMCA at the first presidio. Informal Resources are those resources not recorded on DPR 523A primary record forms and not submitted in CHRIS standard format to an IC by OHP.

The State Office of Historic Preservation Built Environment Resources Directory (OHP BERD), which includes listings of the California Register of Historical Resources, California State Historical Landmarks, California State Points of Historical Interest, and the National Register of Historic Places, lists nine hundred sixty-three (963) recorded buildings and structures within the proposed City of Monterey General Plan Update project area. See attached BERD Listing and California Historical Resource Status Codes List. In addition to these inventories, the NWIC base maps show two hundred two (202) recorded buildings and structures, and four recorded Districts, including; P-27-001752, Presidio of Monterey, P-27-003035 El Castillo (Old Presidio),

P-27-003248 Old Del Monte Hotel District, and P-27-003426, Monterey Old Town, within the proposed City of Monterey General Plan Update project area. See attached Resource List. The Caltrans Bridge Inventory lists thirty-four (34) bridges within the proposed City of Monterey General Plan Update project area (Hope 2005). See attached Bridge Listing.

At the time of Euroamerican contact, the Native Americans that lived in the area were speakers of the Rumsen language, which is part of the Costanoan/Olhone language family (Levy 1978:485). There are Native American resources within or adjacent to the proposed City of Monterey General Plan Update project area that are referenced in the ethnographic literature (Levy 1976, Howard 1979).

Based on an evaluation of the environmental setting and features associated with known sites, Native American resources in this part of Monterey County have been found in areas marginal to Monterey Bay and inland near intermittent and perennial watercourses and near areas populated by oak, buckeye, manzanita, and pine, as well as near a variety of plant and animal resources. The City of Monterey General Plan Update project area contains areas marginal to Monterey Bay in the area between Point Alones and Laguna Del Rey, near intermittent and perennial watercourses. Given the similarity of these environmental factors and the archaeological sensitivity of the area, there is a high potential for unrecorded Native American resources to be within the proposed City of Monterey General Plan Update project area.

Review of historical literature and maps indicated historic-period activity within the City of Monterey General Plan Update project area. Early Monterey County maps indicated numerous buildings and structures, including bridges, piers or wharfs, a racetrack, railroads, and cemeteries within the project area (1895 Monterey Sanborn Maps and 1913 Monterey USGS 15-minute topographic quadrangle). With this information in mind, there is a high potential for unrecorded historic-period archaeological resources to be within the proposed City of Monterey General Plan Update project area.

The 1947 Monterey USGS 15-minute topographic quadrangle depicts numerous buildings or structures within the City of Monterey General Plan Update project area. If present, these unrecorded buildings or structures meet the Office of Historic Preservation's minimum age standard that buildings, structures, and objects 45 years or older may be of historical value.

## **RECOMMENDATIONS:**

1) There are eighty-one (81) recorded archaeological resources in the proposed City of Monterey General Plan Update project area. There are three informal resources within the project area. There have been four hundred fifty (450) cultural resource studies that include portions of the City of Monterey General Plan Update project area. According to our research there is a high potential of identifying Native American archaeological resources and a high potential of identifying historic-period archaeological resources in unsurveyed portions of the project area.

Given that the proposed City of Monterey General Plan Update project area covers such a large area with known sensitivity, and the proposed improvements will guide future projects, it is recommended that these future projects be considered on an individual basis under the Northwest Information Center's Project Review Program. This Program is organized to aid cities and counties in meeting their CEQA obligations on a project-by-project basis. These



reviews result in project specific information and recommendations. Please contact the NWIC Coordinator at 707/588-8455 for additional information.

2) If archaeological resources are encountered **during construction**, work should be temporarily halted in the vicinity of the discovered materials and workers should avoid altering the materials and their context until a qualified professional archaeologist has evaluated the situation and provided appropriate recommendations. Project personnel should not collect cultural resources. Native American resources include chert or obsidian flakes, projectile points, mortars, and pestles; and dark friable soil containing shell and bone dietary debris, heat-affected rock, or human burials. Historic-period resources include stone or adobe foundations or walls; structures and remains with square nails; and refuse deposits or bottle dumps, often located in old wells or privies.

3) It is recommended that any identified cultural resources be recorded on DPR 523 historic resource recordation forms, available online from the Office of Historic Preservation's website: [https://ohp.parks.ca.gov/?page\\_id=28351](https://ohp.parks.ca.gov/?page_id=28351)

4) We recommend the lead agency contact the local Native American tribe(s) regarding traditional, cultural, and religious heritage values. For a complete listing of tribes in the vicinity of the project, please contact the Native American Heritage Commission at 916/373-3710.

5) Our research indicates that there are 962 recorded buildings and structures included in the OHP BERD within the City of Monterey General Plan Update project area. NWIC Base Maps show 202 recorded buildings and structures, and four recorded Districts, Presidio of Monterey, El Castillo (Old Presidio), Old Del Monte Hotel District, and Monterey Old Town. The Caltrans Bridge Inventory also includes 34 bridges. Additionally, the project area has the potential to contain other unrecorded buildings or structures that meet the minimum age requirement.

Therefore, prior to commencement of project specific activities, it is recommended that the above listed resources, and any other ones that have yet to be inventoried, be assessed by a professional familiar with the architecture and history of Monterey County. Please refer to the list of consultants who meet the Secretary of Interior's Standards at <http://www.chrisinfo.org>.

6) Review for possible historic-period buildings or structures has included only those sources listed in the attached bibliography and should not be considered comprehensive.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the California Historical Resources Information System (CHRIS) Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

The California Office of Historic Preservation (OHP) contracts with the California Historical Resources Information System's (CHRIS) regional Information Centers (ICs) to maintain information in the CHRIS inventory and make it available to local, state, and federal agencies, cultural resource professionals, Native American tribes, researchers, and the public. Recommendations made by IC coordinators or their staff regarding the interpretation and application of this information are advisory only. Such recommendations do not necessarily represent the evaluation or opinion of the State Historic Preservation Officer in carrying out the OHP's regulatory authority under federal and state law.

Thank you for using our services. Please contact this office if you have any questions, (707) 588-8455.

Sincerely,



Jillian Guldenbrein  
Researcher

## LITERATURE REVIEWED

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1988 *California Architecture: Historic American Buildings Survey*. Chronicle Books, San Francisco, CA.
- Works Progress Administration  
1984 *The WPA Guide to California*. Reprint by Pantheon Books, New York. (Originally published as *California: A Guide to the Golden State in 1939* by Books, Inc., distributed by Hastings House Publishers, NY.)

Works Progress Administration

1989 *The WPA Guide to the Monterey Peninsula*. Reprint by the University of Arizona Press, Tucson, AZ. (Originally published in 1941 as *Monterey Peninsula*.)

\*\*Note that the Office of Historic Preservation's *Historic Properties Directory* includes National Register, State Registered Landmarks, California Points of Historical Interest, and the California Register of Historical Resources as well as Certified Local Government surveys that have undergone Section 106 review.

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-003303	Voided - E-3 MNT	1977	Katherine Flynn and William Roop	Further Archaeological Testing at 4-Mnt-298, the Custom House Redevelopment Project, City of Monterey	Archaeological Resource Service
S-003305	Voided - E-5 MNT	1976		Archaeological Test Excavations at 4-Mnt-298: Evaluation of Significance, Recommendations for Mitigation of Impacts	Archaeological Consulting and Research Services
S-003305a		1974	James R. Hommes	Custom House Urban Renewal Project EIR	Will Shaw and Associates
S-003305b		1974	Thomas L. Jackson	Archaeological Reconnaissance, The Custom House Redevelopment Project (letter report)	Archaeological Consulting and Research Services
S-003305c		1976	Thomas L. Jackson	Letter regarding the misidentification of 4-MNT-298, Custom House Redevelopment Project	Archaeological Consulting and Research Services
S-003326	Voided - E-28 MNT	1974	Rob Edwards	Archaeological Reconnaissance of the Proposed Villas Carmel del Pacifico Subdivision, North Side, Carmel Valley, Monterey County	
S-003343	Caltrans - 021121; Caltrans - 032900; Voided - E-46 MNT	1974	Eric Hardesty	Archaeological Impact Report on Proposed Project Nos. 021121 and 032900 for the State of California, Department of Transportation, District 05	Archaeological Research, Inc.
S-003344	Submitter - E-73255A-1; Voided - E-47 MNT	1973	Rob Edwards	Archaeological Aspects of Environmental Study of Jacks Peak County Park	
S-003345	Voided - E-48 MNT; Voided - S-5439	1976	Tony F. Weber and Ann S. Peak	Monterey Peninsula Regional Wastewater Treatment System Expansion Project	Ann S. Peak & Associates
S-003345a		1976	Ann S. Peak	Appendix I: Cultural Resource Assessment of the Interceptor Line -- East of Blanco Road and West of Davis Road (Augmentation of Monterey Peninsula Regional Wastewater Treatment System)	Ann S. Peak & Associates
S-003345b		1978	Ann S. Peak and Melinda A. Peak	Cultural Resource Assessment of the Selected Alternative of the Monterey Regional Wastewater Treatment System, Monterey County, California.	Ann S. Peak & Associates
S-003345c		1980	Melinda A. Peak	Test drilling for cultural resources, Monterey Regional Wastewater Treatment Project: Interceptor line from the Salinas Sewage Treatment Plant to the Blanco Road crossing of the Salinas River (letter report)	Ann S. Peak & Associates

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-003346	Voided - E-49 MNT	1976	Joseph C. Winter	Archaeological Resources and Impact of the Proposed Arthur Jones Apartment, Monterey, California	San Jose State University
S-003348	Voided - E-51 MNT	1974	Toni Carrell	Archaeological Reconnaissance Report Prepared for Monterey City Planning Department, Jacks Park	
S-003349	Voided - E-52 MNT	1975	Gary S. Breschini	Report on Archaeological Observations During Construction at the Corner of Munras and Webster Streets, Monterey, August 25-27, 1975	
S-003356	Voided - E-522 MNT; Voided - E-59 MNT; Voided - S-3617	1977	Stephen A. Dietz	Report of Archaeological Reconnaissance for the Proposed Stage 1 Pacific Grove-Monterey Consolidation Project of the Regional Sewerage System	Archaeological Consulting and Research Services, Inc.
S-003356a		1981	Stephen A. Dietz and Thomas L. Jackson	Final Report of Archaeological Excavations at Nineteen Archaeological Sites for the Stage 1 Pacific Grove-Monterey Consolidation Project of the Regional Sewerage System, Volume 1	Archaeological Consulting and Research Services, Inc.
S-003356b		1981	Stephen A. Dietz and Thomas L. Jackson	Report of Archaeological Excavations at Nineteen Archaeological Sites for the Stage 1 Pacific Grove-Monterey Consolidation Project of the Regional Sewerage System, Volume 2, Part 1	Archaeological Consulting and Research Services, Inc.
S-003356c		1981	Stephen A. Dietz and Thomas L. Jackson	Final Report of Archaeological Excavations at Nineteen Archaeological Sites for the Stage 1 Pacific Grove-Monterey Consolidation Project of the Regional Sewerage System, Volume 2, Part 2	Archaeological Consulting and Research Services, Inc.
S-003356d		1981	Stephen A. Dietz and Thomas L. Jackson	Final Report of Archaeological Excavations at Nineteen Archaeological Sites for the Stage 1 Pacific Grove-Monterey Consolidation Project of the Regional Sewerage System, Volume 3: Appendices	Archaeological Consulting and Research Services, Inc.

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-003358	Voided - E-61 MNT	1977	William Roop	Sardine Factory Restaurant Expansion, Foam and Prescott Streets, Monterey (letter report)	Archaeological Resource Service
S-003422	Caltrans - 05155-253901; Voided - E-132 MNT	1977	Laurence W. Spanne	Archaeological Reconnaissance Survey Report, Project 05-Mon-1-46.3/48.0, 48.2/49.4, 50.0/50.7, 51.2/53.8, 55.4/56.1, 75.2/75.4	Caltrans
S-003422a		1978	Laurence W. Spanne	Supplement to Archaeological Reconnaissance Survey Report, Big Sur/Monterey Bikeways, Project 05-Mon-1-46.3/48.0, 48.2/49.4, 50.0/50.7, 50.2/53.8, 55.4/56.1, 75.2/75.4, 05155 - 253901	Caltrans
S-003515	Voided - E-404 MNT	1979	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Reconnaissance at the SE Corner of Del Monte and Van Buren Avenues, Monterey, Monterey County, California	Archaeological Consulting
S-003525	Voided - E-415 MNT	1979	E. Breck Parkman	Unit Records for CA-MNT-271	
S-003542	Voided - E-433 MNT; Voided - S-005540	1979	William Roop	Preliminary Archaeological Investigations for the Monterey Bay Aquarium Foundation	Archaeological Resource Service
S-003542a		1979	William Roop	Preliminary Surface Examination for Monterey Bay Aquarium Foundation (letter report)	Archaeological Resource Service
S-003566	Other - E-458 MNT	1979	Danielle M. Langholtz and Josef Gamper	A Preliminary Archaeological Survey of Jacks Peak Regional Park, Monterey County, California	Monterey Peninsula College Field Class in Archaeology
S-003577	Voided - E-472 MNT	1968	Robert W. Reese	The History of El Castillo de Monterey and the 1967 Archeological Survey	California Department of Parks & Recreation
S-003579	Voided - E-477 MNT	2000		U.S. Custom House	
S-003589	Voided - E-489 MNT	1980	Steven A. Brandt	Cultural Resources Investigations of Operating Projects, Monterey Harbor	U.S. Army Corps of Engineers
S-003594	Voided - E-494 MNT	1961	Robert Hatch	Colton Hall, Monterey, California: An Analysis of Feasibility as a State Historical Monument	Monterey Regional Planning Office
S-003625	Voided - E-531 MNT	1980	Trudy Haversat and Gary S. Breschini	Preliminary Archaeological Reconnaissance of the Mesa Hills Development, Hidden Hills Area, Northern Monterey County, California	Archaeological Consulting
S-003633	Other - Contract DACA05-78-C-0160; Voided - E-540 MNT	1980	Jack L. Zahniser, Lois J. Roberts, and Janice Findley Fisher	Intensive Cultural Resources Survey Report, Presidio of Monterey	Environmental Research Archaeologists



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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-003647	Voided - E-555 MNT	1980	David Chavez	Archaeological Resources Evaluation of the Pacific Plaza Hotel and Parking Lot Project Location in Monterey, Monterey County, California (letter report)	
S-003654	Voided - E-562 MNT	1981	Trudy Haversat and Gary S. Breschini	Preliminary Archaeological Reconnaissance of a Parcel Near the Junction of Highways 68 and 218, Monterey, Monterey County, California	Archaeological Consulting
S-003655	Voided - E-563 MNT	1981	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Report and Preliminary Archaeological Mitigation Plan for the Steinbeck Inn, Monterey, Monterey County, California	Archaeological Consulting
S-003660	Voided - E-568 MNT	1981	David Chavez	Preliminary Archaeological Resources Evaluation for the Cannery Row Redevelopment Project, Monterey, California	David Chavez, Consulting Archaeologist
S-003661	Voided - E-569 MNT; Voided - E-662 MNT; Voided - S-8289	1981		Cultural Resource Evaluation for a Parcel of Land at Foam and Reeside Streets in the City of Monterey, County of Monterey	Archaeological Resource Management
S-003661a		1981		Secondary, Subsurface Archaeological Evaluation of a Parcel of Land at Foam Street and Reeside Avenue in the City of Monterey, County of Monterey	Archaeological Resource Management
S-003666	Voided - E-574 MNT	1981	Larry Felton	Recent Archeological Finds at Cooper-Molera Adobe, Courtyard Wall Reconstruction (letter report)	California Department of Parks & Recreation
S-003676	Voided - E-584 MNT	1981	Stephen A. Dietz	Project No. PMR 001 Archaeological Reconnaissance (letter report)	Archaeological Consulting and Research Services, Inc.
S-003716	Voided - E-627 MNT	1981	Trudy Haversat and Gary S. Breschini	Preliminary Archaeological Reconnaissance of a Parcel at Foam, Wave and Drake, New Monterey, Monterey County, California	Archaeological Consulting
S-003718	Voided - E-629 MNT	1981	Robert Cartier	Cultural Resources Evaluation of the Arthur Jones Condominium Project on Drake Avenue in the City of Monterey	Archeological Resource Management
S-003732	Voided - E-644 MNT	1981	Paul Hampson and Gary S. Breschini	Preliminary Archaeological Reconnaissance for the Hotel San Carlos, Monterey, Monterey County, California	Archaeological Consulting
S-003737	Voided - E-649 MNT	1981	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Reconnaissance of 652 Cannery Row, Monterey, Monterey County, California	Archaeological Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-003950	Other - MS 380 (Lowie Museum); Other - MS 39 (Archaeological Survey); Voided - E-204 SCR	1930	Avery E. Wood	Monterey Bay Area Indian Mounds: Report on a Reconnaissance of the Monterey Bay Area for Shell Mounds and Other Traces of Aboriginal Habitation	
S-004878	Voided - E-78 MNT	1980	Lee Moz	Results of the Archaeological Monitoring of the Courtyard of the Whaling Station and First Brick Building, Monterey, S.H.P.	California Department of Parks & Recreation
S-004978		1982	Jan Whitlow and Trudy Haversat	Preliminary Archaeological Reconnaissance of Two Parcels on Cannery Row, Monterey, Monterey County, California	Archaeological Consulting
S-005211	Agency Nbr - DACA05-80-C-0228	1982	Phillip Dole and Michael Swernoff	Intensive Cultural Resource Survey, Armed Forces YMCA, Monterey, California	Professional Analysts
S-005211a		1981	Phillip Dole	Intensive Cultural Resources Survey, Armed Forces YMCA, Monterey, California Draft Report	Professional Analysts
S-005413	Other - 043488; Voided - E-111 MNT	1977	Maryanne Fazio	Archaeological Resource Assessment of the Edward's Development Project Site, Monterey, California	Archaeological Resource Service
S-005427	Voided - E-211 MNT	1978		Cultural Resource Assessment of the Golf Course Irrigation Project, Pacific Grove - Del Monte Forest, Monterey County, California.	Ann S. Peak & Associates
S-005428	Voided - E-212 MNT	1975	Ann S. Peak	Cultural Resource Assessment of the Canada de la Segunda Water Transmission Pipeline, Monterey County, California.	Ann S. Peak & Associates
S-005434	Voided - E-218 MNT	1973	Thomas L. Jackson	Del Monte Forest Comprehensive Plan, Archaeological Site Reconnaissance.	Adan E. Treganza Anthropological Museum, San Francisco State University
S-005444	Other - E-229 MNT	1978	Theo Mabry	Report of Archaeological Records Search and Reconnaissance Survey, Vista Nadura Property, Monterey County, Ca.	Archaeological Planning Collaborative
S-005445	Voided - E-230 MNT	1978	Lynne H. Mounday	Monterey County Preliminary Cultural Resource Assessment, File No. 689, Laguna Seca Ranch Estates #2	Monterey County Planning Department
S-005457	Voided - E-242 MNT	1978	William Roop and Katherine Flynn	Heritage on the Half-Shell: Excavation at Mnt-298	Archaeological Resource Service

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-005461	Voided - E-246 MNT	1967	Robert K. Evans, D. L. Weide, and M. L. Susia	The Monterey Peninsula College Sites (Mnt-371, 372, 373), Preliminary Report; and Geographic and Geologic Investigations Report	Archaeological Survey, U.C.L.A.
S-005463	Voided - E-248 MNT	1976	William Roop	Preliminary Archaeological Reconnaissance of the proposed 'Arthur Jones Apartments', Monterey, California.	Archaeological Resource Service
S-005464	Voided - E-249 MNT	1979	Rob Edwards	Archaeological Reconnaissance of the Parcel at 414 Foam Street, Monterey, California.	The Gavilan Foundation
S-005484	Voided - E-18 MNT; Voided - E-270 MNT; Voided - S-8275	1977	Rob Edwards	Evaluation of the Cultural Resources to be Impacted by the Proposed Hawthorne-Van Buren Connection Across the Presidio of Monterey, California	
S-005484a		1977	Rob Edwards	Hawthorne-Van Buren Connection, Environmental Impact Report, Monterey, California	
S-005489	Caltrans - 05351-271701; Voided - E-275 MNT	1979	Cynthia J. Adams	Archaeological Survey Report for a Proposed Signal Plan on 05-Mon-68 P.M. 3.9, at Monterey Peninsula Community Hospital, 05351-271701	California Department of Transportation
S-005491	Voided - E-277 MNT	1979	Gary S. Breschini	Preliminary Archaeological Surface Reconnaissance of the Laguna Grande Regional Park, Adjacent to the Seaside City Hall, Seaside, Monterey County, California	Gavilan Foundation
S-005511	Voided - E-297 MNT	1979	Gary S. Breschini	Preliminary Archaeological Surface Reconnaissance of the Highway 68 Plan Line Area, Between York Road and Olmsted Road, East of Monterey, Monterey County, California	Archaeological Consulting
S-005529	Voided - E-315 MNT	1974	Toni Carrell	Preliminary Report to the Central Coast Regional Coastal Zone Conservation Commission Regarding the Filipino Community Hall	
S-005544	Voided - E-330 MNT	1979	E. Breck Parkman	Archaeological testing at the future site of the San Carlos Social Hall, Monterey, California (letter report)	Greenwood & Associates
S-005572	Submitter - Project #79-140.; Voided - E-358 MNT	1979	Dennis L. Wardell	Cultural Resource Impact Evaluation Report for the Laguna Grande Neighborhood Improvement Project	Parks Department, County of Monterey

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-0055777	Voided - E-363 MNT	1975	William J. Wallace	Captain Cooper's House, Archaeological Explorations in 1974; Part I: Architectural Elements and Part II: The Grounds	
S-005577a		1975	William J. Wallace	Captain Cooper's House - Archaeological Explorations in 1974	
S-005583	Voided - E-369 MNT	1978	Greta Elsworth Bingham	Archaeological Excavations at the Custom House, Monterey State Historic Park	The Cultural Heritage Section, Resource Preservation and Interpretation Division, Department of Parks and Recreation, The Resources Agency, State of California
S-005585	Voided - E-371 MNT	1968	William E. Pritchard	Preliminary Archaeological Investigations at El Castillo, Presidio of Monterey, Monterey, California	Central California Archaeological Foundation
S-005586	Voided - E-372 MNT	1971	Donald M. Howard, Toni Graham, Vivian Kerohan, June Payne, Dawn Cope, and Gary S. Breschini	Archaeological Investigation of the Royal Presidio of Monterey	Monterey County Archaeological Society
S-005590	Other - DACCA05-78-C-0160; Voided - E-401 MNT	1979	Lotis J. Roberts, Gary Stickle, Jack Zahniser, Janice Findley Fisher, Ivan Show, Rod Brown, William Chilner, James Baldwin, and John Douglas	A Cultural Resources Reconnaissance, Survey, and Overview, Fort Hunter Liggett, Fort Ord, and Presidio of Monterey, California.	Environmental Research Archaeologists
S-005590a		1980	Jack L. Zahniser and Lotis J. Roberts	Cultural Resources Reconnaissance and Overview, Fort Hunter Liggett, California	Environmental Research Archaeologists
S-005606	Voided - E-595 MNT	1981	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Reconnaissance of Two Parcels in the Lower Carmel Valley Area, Monterey County, California.	Archaeological Consulting
S-005632	Voided - S-5915	1982	Chuck Smith	Archaeological Reconnaissance for Encroachment Permit, 05-MON-68 5.9/6.0	Caltrans
S-005672	Voided - E-679 MNT	1982	David Chavez	Verga Hotel Project (A8176) (letter report).	

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-005709	Submitter - AC Project 513a; Submitter - Project 434; Voided - S-6269; Voided - S-6437	1982	Trudy Haversat, Maryellen Ryan, and Gary S. Breschini	Preliminary Archaeological Reconnaissance of a Parcel at the Corner of Jackson and Pacific Streets, Monterey, Monterey County, California	Archaeological Consulting
S-005709a		1983	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Reconnaissance for the Pacific Street Hotel Project at Jackson and Pacific Streets Monterey, Monterey County, California	Archaeological Consulting
S-005709b		1984	Paul Farnsworth and Robert Reichtman	A Re-evaluation of the Cultural Resources Located within the Boundaries of the Pacific Street Hotel Project Monterey, Monterey County, California	
S-005742		1982	Robert Cartier	Cultural Resource Evaluation for Highway 68 Improvements and Entrance Alignments for the Monterey Municipal Airport in the City of Monterey	Archeological Resource Management
S-005759	Voided - S-7200	1982		Secondary, Subsurface Archaeological Evaluation of the Monterey Plaza Hotel Parking Garage Site on Cannery Row	Archaeological Resource Management
S-005759a		1985	Robert Cartier	Addendum to the Secondary, Subsurface Archaeological Evaluation of the Monterey Plaza Hotel Parking Garage Site on Cannery Row in the City of Monterey County of Monterey	Archaeological Resource Management
S-005882		1983	Rob Edwards and J. M. Cooper	Cultural Resource Evaluation of the Monterey Peninsula Airport, Monterey, California	
S-005927	Submitter - Project 457; Submitter - Project 457B; Voided - S-6446	1983	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Reconnaissance of a Parcel at the Southeast Corner of Foam and Irving Streets, Monterey, Monterey County, California	Archaeological Consulting
S-005927a		1984	Gary S. Breschini and Trudy Haversat	Secondary (Subsurface) Archaeological Testing of a Portion of CA-MNT-391, at Irving and Foam Streets, Monterey, Monterey County, California	Archaeological Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-005929	Submitter - AC Project 449	1983	Jan Whitlow and Gary S. Breschini	Preliminary Archaeological Reconnaissance of the Southern Pacific Right-of-Way, Monterey and Pacific Grove, Monterey County, California.	Archaeological Consulting
S-005969	Voided - E-699 MNT	1982	Paul Hampson and Gary S. Breschini	Preliminary Archaeological Reconnaissance of the Proposed Ryan Ranch Water Storage Tank, Monterey County, California	Archaeological Consulting
S-006099	Submitter - Project 479	1983	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Reconnaissance of a Parcel at 816 Wave Street, Monterey County, California	Archaeological Consulting
S-006100	Submitter - Project 478	1983	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Reconnaissance of a Parcel at 787 Laine Street, New Monterey, Monterey County, California	Archaeological Consulting
S-006104	Submitter - AC Project 470	1983	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Reconnaissance at the Intersection of Second Street and Mark Avenue, Monterey, Monterey County, California	Archaeological Consulting
S-006108	Submitter - AC Project 460	1983	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Reconnaissance of a Parcel at the Corner of Banner and Virgin Avenues, Monterey, Monterey County, California	Archaeological Consulting
S-006146	Submitter - Project 479b	1983	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Report and Archaeological Management Report for 816 Wave Street and Two Nearby Parcels, Monterey, Monterey County, California	Archaeological Consulting
S-006274		1974	Thomas L. Jackson	Archaeological Reconnaissance: The Custom House Redevelopment Project (letter report)	Archaeological Consulting and Research Services
S-006275		1973	Stanley Van Dyke	An Archaeological Sites Reconnaissance of Parcels F-1C and C-1 (letter report)	San Francisco State College
S-006307		1983		Subsurface Archaeological Testing of the Building 5 Site, Monterey Plaza Hotel Project at Cannery Row and Drake Avenue in the City of Monterey, California	Archaeological Resource Management
S-006331	Submitter - AC Project 520	1984	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Reconnaissance at 512 Pierce Street, Downtown Monterey, Monterey County, California	Archaeological Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-006332	Submitter - AC Project 521	1984	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Reconnaissance of a Parcel Bounded by Foam, Reeside, and Cannery Row, Monterey, Monterey County, California	Archaeological Consulting
S-006648	Submitter - AC Project 554	1984	R. Paul Hampson and Gary S. Breschini	Preliminary Archaeological Reconnaissance of Washerwoman's Pond, Camino Aguajito and Fremont Street, Monterey, Monterey County, California.	Archaeological Consulting
S-006694		1984	Matthew R. Clark	Cultural Resources Reconnaissance of the Monterra Ranch Project Area, Monterey County, California	Holman & Associates
S-006649		1984	Gary S. Breschini	Archaeological monitoring at the Otter Inn, Cannery Row, Monterey County, California (letter report)	Archaeological Consulting
S-006942		1984	Robert Cartier, Gloy Anne Laffey, Terry Jones, Lorna Pierce, and Charlene Deltels	The Saunders Site (CA-MNT-391), Excavation and Preliminary Analysis	Archaeological Resource Management
S-006947	IC Record Search Nbr - #6080-84-0522	1984	Robert Cartier	Cultural Resource Evaluation of Lots B and D of the Cannery Row Hotel on Cannery Row in the City of Monterey	Archaeological Resource Management
S-006996	Submitter - Project 558; Submitter - Project 558a	1984	R. Paul Hampson, Trudy Haversat, and Gary S. Breschini	Secondary Archaeological Testing of CA-MNT-1262 at Laguna Seca East Ranch Estates, Monterey County, California	Archaeological Consulting
S-006996a		1984	R. Paul Hampson and gary Breschini	Preliminary Archaeological Reconnaissance of Laguna Seca East Ranch Estates Monterey County, California	Archaeological Consulting
S-006998	Submitter - AC Project 624	1984	R. Paul Hampson and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance of Assessors Parcel Number 1-601-10, on Carmello Street, Monterey, Monterey County, California	Archaeological Consulting
S-007050		1984	Robert Cartier	Cultural Resource Evaluation, Testing Recommendations, and Mitigation Program for the Monterey Cannery Hotel Project, Parcel A, on Cannery Row in the City of Monterey, County of Monterey	Archaeological Resource Management

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-007051		1984		Cultural Resource Evaluation, Testing Recommendations, and Mitigation Program for the Monterey Cannery Hotel Project, Parcel B, on Cannery Row in the City of Monterey, County of Monterey	Archeological Resource Management
S-007052		1984		Cultural Resource Evaluation, Testing Recommendations, and Mitigation Program for the Monterey Cannery Hotel Project, Parcel C, on Cannery Row in the City of Monterey, County of Monterey	Archeological Resource Management
S-007198		1985		Subsurface Testing/Mitigation of the Monterey Cannery Hotel Project, Parcels B and C, on Cannery Row in the City of Monterey, County of Monterey	Archeological Resource Management
S-007322	Submitter - Project 672	1985	R. Paul Hampson and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance of Property on Wave Street, Near Cannery Row, Monterey, Monterey County, California	Archeological Consulting
S-007332	Submitter - Project 654	1984	R. Paul Hampson and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance for a Proposed Parking Garage in Monterey, Monterey County, California.	Archeological Consulting
S-007340		1985	Charles R. Smith	A Preliminary Archaeological Reconnaissance Report of the Monterey Institute of International Studies Campus, Monterey, California	
S-007412	Submitter - AC Project 669	1985	R. Paul Hampson and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance for the New Monterey/Cannery Row Traffic Improvements EIR, Monterey, Monterey County, California	Archeological Consulting
S-007415	Submitter - project 705 & 705B; Voided - S-7772	1985	R. Paul Hampson and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance of a Parcel at Cannery Row and Reeside Avenue, in Monterey, Monterey County, California.	Archeological Consulting
S-007415a		1985	Gary S. Breschini and Trudy Havensat	Secondary (Subsurface) Archaeological Excavation for the San Carlos Beach Park on Cannery Row Monterey, Monterey County, California	Archeological Consulting



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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-007570		1985	Glory Anne Laffey, Vance Bente, Robert Cartier, Edna Kimbro, and Charlene Detlefs	The Archaeological Investigations at CA-MNT-1243H, the Estrada Adobe in Monterey, California	Archaeological Resource Management
S-007606	Submitter - AC Project 727	1985	R. Paul Hampson and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance of a Portion of the Southern Pacific Right-of-Way, Monterey, Monterey County, California.	Archaeological Consulting
S-007740		1985	Stephen A. Dietz	Archaeological Reconnaissance Report for Pacific Bell Projects NE1841T and NE1843T, Located from Olmstead Road to Torero Drive on Highway 68, and from Jackson Street to Del Monte Avenue, and Castroville to Boronda Road on Highway 183, Monterey County	Archaeological Consulting and Research Services, Inc.
S-008215		1986	Robert Cartier and Glory Anne Laffey	Cultural Resource Evaluation of the Plaza Convention Center on Cannery Row in the City of Monterey.	Archaeological Resource Management
S-008277	Voided - E-82 MNT	1977	William Roop	Whaling Station Inn Expansion (letter report)	Archaeological Resource Service
S-008278	Voided - E-93 MNT	1976	Thomas L. Jackson	Preliminary archaeological reconnaissance of the San Carlos Cannery Site, Monterey, California (letter report)	Archaeological Consulting and Research Services, Inc.
S-008294	Voided - E-690 MNT	1979	Donald M. Howard	The Francis Doud Site - MNT-298	Monterey County Archaeological Society
S-008742		1986	Robert Cartier	Cultural Resource Evaluation of the Cannery Row Worker's Memorial Park in the City of Monterey	Archaeological Resource Management
S-008814	Submitter - Project 906	1986	Anna L. Runnings and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance at 1450 Manor Road, Monterey, Monterey County, California	Archaeological Consulting
S-009021	Submitter - AC Project 940	1987	Gary S Breschini and Charles R. Smith	Preliminary Cultural Resources Reconnaissance for the Hartnell Gulch Park, Monterey, Monterey County, California	Archaeological Consulting
S-009264	Submitter - AC Project 978	1987	Gary S. Breschini and Charles R. Smith	Preliminary Cultural Resources Reconnaissance of Holman Highway (State Route 68) From State Highway 1 North to Asilomar Avenue in Pacific Grove, Monterey County, California	Archaeological Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-009279a	OHP PRN - HUD870615A; Other - AC 1001	1987	Gary S. Breschini and Charles R. Smith	Preliminary Cultural Resources Reconnaissance of Parcel A.P.N. 001-826-01, First Street & Park Avenue, Monterey, Monterey County, California	Archaeological Consulting
S-009279a		1987	Kathryn Guaitteri and Bill Fell	HUD870615A, Preliminary Cultural Resources Reconnaissance of Parcel A.P.N. 001-826-01, First Street & Park Avenue, Monterey, Monterey County, California	Office of Historic Preservation, City of Monterey
S-009661		1987	Stephen A. Dietz, Kenneth Goballet, Lori Hager, Thomas L. Jackson, Rob Jackson, Randy Milliken, Mary Ellen Ryan, and Dwight Simons	Final Report, Archaeological Test Excavations, CA-Mnt-101, CA-Mnt-298, CA-Mnt-929 and El Castillo, at the Presidio and City of Monterey, Monterey County, California	Archaeological Consulting and Research Services, Inc.; Beta Analytic, Inc.
S-009719		1987	Robert Cartier and Glory Anne Laffey	Cultural Resource Evaluation for the Lighthouse Curve Road Widening Project in the City of Monterey	Archaeological Resource Management
S-009747		1988	Larry Bourdeau	Results of Phase I Archaeological Reconnaissance with Recommendations for Cultural Resource Management, APN 001-612-011, 1108 Cass Street, City of Monterey, Monterey County, California	Pacific Museum Consultants
S-009747a		1991	Fell	Phase II Archaeological Testing of CA-MNT-1367H in the City of Monterey, County of Monterey	Archaeological Resource Management
S-010021		1988	Glory Anne Laffey and Edith Smith	Historic Study of the Hotel Site at 750 Cannery Row in the City of Monterey, California	Archaeological Resource Management
S-010066		1988	Stephen A. Dietz	Seaside Laguna Grande Office Building (letter report)	Archaeological Consulting and Research Services, Inc.
S-010312	Submitter - AC Project 1311	1988	Gary S. Breschini	Preliminary Cultural Resources Reconnaissance of APN 001-032-16 and 001-033-04, at 298 and 304 Foam Street, Monterey, Monterey County, California	Archaeological Consulting
S-010323	Submitter - AC Project 1302	1988	Anna Runnings and Trudy Haversat	Preliminary Cultural Resources Reconnaissance of a Portion of the Naval Post-Graduate School, Monterey, Monterey County, California	Archaeological Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-010551	Caltrans - 5351-356800	1988	Wendy Waldron	Negative Archaeological Survey Report, proposed signal at the intersection of Josselyn Canyon Road and Highway 68, 05-MON 68 P.M. 5.2.5351-356800	Caltrans
S-010888	Submitter - Project 1436; Submitter - Project 1436B; Voided - S-011062	1989	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Reconnaissance for the Highway 218/68 Intersection Improvements, Del Rey Oaks, Monterey County, California	Archaeological Consulting
S-010888a		1989	Portia Lee and Gary S. Breschini	Historic Architectural Evaluation for the Highway 218/68 Intersection Improvements, Del Rey Oaks, Monterey County, California	Archaeological Consulting
S-010889	Submitter - Project 1442	1989	Gary S. Breschini and Trudy Haversat	Preliminary Archaeological Reconnaissance for the New Education Building at the Monterey Bay Aquarium, Monterey, Monterey County, California	Archaeological Consulting
S-011264	Submitter - Project 1577	1989	Trudy Haversat and Gary S. Breschini	Archaeological and Osteological Analyses of a Prehistoric Burial Recovered from the Naval Postgraduate School, Monterey, Monterey County, California	Archaeological Consulting
S-011282	Submitter - AC Project 42B	1989	Anna Runnings and Trudy Haversat	Preliminary Cultural Resources Reconnaissance of a Portion of the Monterera Ranch, Monterey, Monterey County, California	Archaeological Consulting
S-011421	Submitter - Project 1646; Voided - S-011422	1989	Anna Runnings and Trudy Haversat	Preliminary Cultural Resources Reconnaissance of a Portion of the Ryan Ranch, Del Rey Oaks, Monterey County, California	Archaeological Consulting
S-011421a		1989	Anna Runnings and Trudy Haversat	Preliminary Cultural Resources Reconnaissance of Parcel A on the Ryan Ranch, Del Rey Oaks, Monterey County, California	Archaeological Consulting
S-011462	Voided - S-010764	1988	Allen G. Pastron	An archaeological surface reconnaissance of the Roberts Lake area of the Laguna Grande/Roberts Lake Restoration project, City of Seaside, Monterey County, California (letter report)	Archeo-Tec
S-011462a		1988	Allen G. Pastron	Archaeological monitoring and evaluation in connection with the Laguna Grande/Roberts Lake Restoration project, City of Seaside, Monterey County, California (letter report)	Archeo-Tec

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-011617	Submitter - AC Project 1674	1990	Anna Runnings and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance for Sewer Lines Near Roberts Lake, Monterey, Monterey County, California	Archaeological Consulting
S-011624	Submitter - AC Project 1677	1990	Anna Runnings and Trudy Haversat	Preliminary Cultural Resources Reconnaissance of APNs 001-011-09 and 001-023-14 & 17, Monterey, Monterey County, California	Archaeological Consulting
S-012324	Submitter - Project 1837	1990	Anna Runnings and Trudy Haversat	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Numbers 001-567-10 and -11, Monterey, Monterey County, California	Archaeological Consulting
S-012358	Submitter - AC Project 1813	1990	Anna Runnings and Trudy Haversat	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number 001-026-01, Monterey, Monterey County, California	Archaeological Consulting
S-012362	Submitter - Number 29	1989	Gary S. Breschini, Trudy Haversat, B. Bowser, R. O. Gibson, R. W. Huddleston, T. L. Jackson, P. E. Langenwaller, II, T. M. Origer, R. L. Reynolds, M. F. Rondeau, V. L. Rondeau, and A. L. Runnings	Archaeological Excavations at CA-MNT-108, at Fisherman's Wharf, Monterey, Monterey County, California (ISBN 1-55567-067-9)	Coyote Press
S-012554	Voided - S-13360	1991	Robert Cartier	Cultural Resource Evaluation for Two Parcels Located at 299 and 285 Foam Street in the County of Monterey	Archaeological Resource Management
S-012554a		1991	Robert Cartier	Archaeological Testing and Mitigation of 299 and 285 Foam Street Project in the County of Monterey	Archaeological Resource Management
S-012555	Voided - S-12553	1990		Cultural Resource Evaluation for Two Parcels Located at 398 and 380 Foam Street in the County of Monterey	Archaeological Resource Management
S-012555a		1991		Phase II Archaeological Testing of 398 and 380 Foam Street in the County of Monterey	Archaeological Resource Management
S-012596	Submitter - AC Project 1873	1991	Anna Runnings and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number 001-034-01, Monterey, Monterey County, California	Archaeological Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-012618	Submitter - AC Project 1854	1991	Gary S. Breschini	Preliminary Cultural Resources Reconnaissance for the Del Monte Avenue Widening, Monterey, Monterey County, California	Archaeological Consulting
S-013288	Submitter - Project 1938	1991	Anna Runnings and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance, Assessor's Parcel Number 011-464-20, Monterey, Monterey County, California	Archaeological Consulting
S-013333		1991	Robert Cartier	Cultural Resource Evaluation of a Parcel Located off Lighthouse Avenue in the City of Monterey	Archaeological Resource Management
S-013378		1990	Robert Cartier	Cultural Resource Evaluation for One Parcel Located at 499 Wave Avenue and 141 McClelland Avenue in the County of Monterey	Archaeological Resource Management
S-013987	Submitter - AC Project 1988	1992	Anna Runnings and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Numbers 001-034-01, 08, 14, and 15, Monterey, Monterey County, California	Archaeological Consulting
S-014013	Other - AC 2014	1992	Anna Runnings and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance for the Monterey Visitor's Center, Monterey, Monterey County, California	Archaeological Consulting
S-014451	Submitter - A Project 2045	1992	Gary S. Breschini, Trudy Haversat, and Kent Seavey	Preliminary Cultural Resources Reconnaissance for the Larkin Street Bridge, Monterey, Monterey County, California	Archaeological Consulting
S-015133		1993	Robert Cartier, Judy Carrico, Jeff Hall, William Hildebrandt, Kim Holanda, Terry Jones, Glory Anne Laffey, Ellen Moore, Scott Ortman, Lorna Collins Pierce, Elena Reese, Rich San Filippo, Francoise Sweeney, and Irene Van Zandt	The Saunders Site: Mnt-391, a Littoral Site of the Early Period	The Scotts Valley Historical Society
S-015645	Submitter - AC Project 1677B	1993	Anna Runnings and Gary S. Breschini	Preliminary Archaeological Mitigation Plan for Parcel APN 001-011-09 on Cannery Row, Monterey, Monterey County, California	Archaeological Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-015684	Submitter - AC Project 2177	1993	Anna Runnings and Trudy Haversat	Preliminary Prehistoric Cultural Resources Reconnaissance of Assessor's Parcel Number 001-382-04, Monterey, Monterey County, California	Archaeological Consulting
S-016280	Submitter - AC Project 2237	1994	Anna Runnings and Trudy Haversat	Preliminary Cultural Resources Reconnaissance of a Portion of the St. Johns Cemetery, Monterey, Monterey County, California	Archaeological Consulting
S-016375		1994	Rob Edwards, Charlotte A. Simpson-Smith, and Allan Lonmberg	Final Report: The Profiling and Monitoring of a California American Water Company Trench Through a Portion of the Historic Spanish Presidio and Adjacent to the Thomas O. Larkin House in Monterey, California	Cabrillo College
S-016375a		1994	Julia G. Costello	Analysis of Ceramics Recovered from a Utilities Trench Near the Presidio of Monterey	Foothill Resources, Ltd.
S-016375b		1993	Edna E. Kimbro	Vicinity of the "Governor's House", Presidio of Monterey, California (letter report)	Historical: Architectural: Conservation Research
S-016720		1994	Robert Cartier, Elena Reese, and Julie C. Wizorek	Archaeological Testing Program and National Register Evaluation of the U.S. Coast Guard, Group Monterey Project in Monterey, California	Archaeological Resource Management
S-016720a		1994	Robert Cartier, Elena Reese, and Julie C. Wizorek	Preliminary Report of the Archaeological Testing Program, U.S. Coast Guard, Group Monterey Project in the County of Monterey (Draft)	Archaeological Resource Management
S-016720b		1994	Robert Cartier	Cultural Resource Evaluation of the U.S. Coast Guard, Group Monterey Project in the County of Monterey	Archaeological Resource Management
S-016720c		1994	Robert Cartier, Elena Reese, and Julie C. Wizorek	Archaeological Testing Program and National Register Evaluation of the U.S. Coast Guard, Group Monterey Project in Monterey, California	Archaeological Resource Management
S-016892		1967	William Pritchard	Progress Report on the Archaeological Study of the Site of El Castillo, Presidio of Monterey, Monterey, California	Central California Archeological Foundation
S-016967	Submitter - Project 2309	1995	Anna Runnings and Trudy Haversat	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number 001-012-14, Monterey, Monterey County, California	Archaeological Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-017103	Other - Grant Agreement No. MT-0424-4-NC-14	1995	Charlotte A. Simpson-Smith and Rob Edwards	Archaeological Test Excavation Adjacent to the Eastern Exterior Foundation, San Carlos Cathedral, Royal Presidio Chapel, Monterey, California	Archaeological Associates of Central California
S-017180		1994	Mark V. Thornton	A Survey and Historic Significance Evaluation of the CDF Building Inventory, CDF Archaeological Reports, Number 17, Volume 1 of 2	California Department of Forestry and Fire Protection
S-017180a		1994	Mark V. Thornton	A Survey and Historic Significance Evaluation of the CDF Building Inventory, CDF Archaeological Reports, Number 17, Volume 2 of 2	California State University, Fresno
S-017235		1965	D. L. Weide and M. L. Susia	Geographic and Geologic Investigation of the Monterey Peninsula Junior College Area (Sites MNT-371, 372, 373)	University of California, Los Angeles; California State College, Long Beach
S-017407	Submitter - AC Project 2323	1995	Anna Runnings and Trudy Haversat	Preliminary Cultural Resources Reconnaissance of the Intersection of Del Monte Avenue and Figueroa Street, Monterey, Monterey County, California	Archaeological Consulting
S-017425	Submitter - AC Project 2333; Voided - S-19486	1995	Anna Runnings and Gary S. Breschini	Archaeological Survey Report for Sidewalk Improvements in the Cannery Row Area, Monterey, Monterey County, California	Archaeological Consulting
S-017425a		1997	Mary Doane and Gary S. Breschini	Supplemental Archaeological Survey Report for Sidewalk Improvements in the Cannery Row area, Monterey, Monterey County, California	Archaeological Consulting
S-017497				Archaeological Reconnaissance, Proposed Site of Old Capitol Project, Monterey County, California	Archaeological Consulting and Research Services

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-017788	Agency Nbr - Contract No. DACA05-84-C-0329; Agency Nbr - Contract No. DACA05-84-R-0158; Voided - S-18370	1985	W. Turrentine Jackson and William Hildebrandt	Historical Resources Overview: Presidio of Monterey, Monterey, California	Jackson Research Projects; Far Western Anthropological Research Group
S-017788a		1985	Rand F. Herbert Rand F. Herbert, Stephen R. Wee, and Stephen D. Mikesell	Historical Resources Overview: Presidio of Monterey, Monterey, California	Far Western Anthropological Research Group
S-017788b		1985	William R. Hildebrandt, Kelly R. McGuire, Judith Tordoff, and Mark Hylkema	Archaeological Investigations of Five Sites Located at the Presidio of Monterey, Monterey County, California	Far Western Anthropological Research Group, Inc.
S-017788c		1985	W. Turrentine Jackson, Rand F. Herbert, Stephen R. Wee, Stephen D. Mikesell, Elizabeth McKee, Sharon D. Schuler, and Robert Mackensen	Draft Cultural Resources Overview, Presidio of Monterey, Monterey, California	Jackson Research Projects; Far Western Anthropological Research Group, Inc.
S-017788d			Robert E. Mackensen	Preserving and Maintaining the Presidio of Monterey National Register Historic District: or How to Hold Down the Fort	
S-017788e		1985	William R. Hildebrandt, Kelly R. McGuire, Judith Tordoff, and Mark Hylkema	Archaeological Investigations of Five Sites Located at the Presidio of Monterey, Monterey County, California	Far Western Anthropological Research Group, Inc.
S-017788f				Methodology for Ranking Historic Properties at the Presidio of Monterey	Jackson Research Projects



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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-018092	Submitter - AC Project 2371	1996	Anna Runnings and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance for Assessor's Parcel Number 001-053-06 and -07, Monterey, Monterey County, California	Archaeological Consulting
S-018372	OHP PRN - EDA950824A; Other - Miscellaneous Report of Investigations, Number 67	1995	Phillip R. Wate	A Cultural Resources Survey of 783 Hectares, Fort Ord, Monterey County, California	Geo-Marine, Inc.
S-018372a		1995	Graham Bice and James B. Gill	EDA Award No. 07-49-04063, proposed Habitat Management Plan Demonstration Project, Fort Ord	University of California, Santa Cruz
S-018806	Submitter - Project 2413	1996	Anna Runnings and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance for a Portion of A.P.N. 001-062-019, Monterey, Monterey County, California	Archaeological Consulting
S-018816	Submitter - AC Project 2426	1996	Anna Runnings and Trudy Haversat	Preliminary Cultural Resources Reconnaissance for Assessor's Parcel Number 013-031-26, Monterey, Monterey County, California	Archaeological Consulting
S-018822		1996	Gary S. Breschini and Trudy Haversat	Secondary Archaeological Testing for the Proposed Lighthouse Curve Widening, Monterey, Monterey County, California	Archaeological Consulting
S-018834	Submitter - Project 2455	1996	Anna Runnings and Trudy Haversat	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number 001-023-15, Monterey, Monterey County, California	Archaeological Consulting
S-019207	OHP PRN - USA940707B	1996	Thomas L. Jackson	Consideration of potential impacts to cultural resources, repair of landfill cover, landfill closure, Presidio of Monterey (reference: Final Environmental Assessment, Landfill Closure, Presidio of Monterey - July 1994) (letter report)	Pacific Legacy, Inc.
S-019605	Submitter - Project 2493	1997	Mary Doane and Gary S. Breschini	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number 001-071-005, Monterey, Monterey County, California	Archaeological Consulting
S-019616		1997	Gary S. Breschini	Archaeological monitoring for the Lighthouse Curve Widening project (letter report)	Archaeological Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-019963		1997	Anna Runnings	Historic Property Clearance Report for Proposed Bicycle Path Along Sand Dunes Drive and Highway 1, Sand City, Monterey County, California	Archaeological Consulting
S-019986	Submitter - AC Project 2547	1997	Mary Doane and Trudy Haversat	Preliminary Archaeological Reconnaissance for Assessor's Parcel Number 001-671-032, Monterey, Monterey County, California	Archaeological Consulting
S-020059		2001	Mary Doane and Trudy Haversat	Negative Archaeological Survey Report for the Fort Ord Network Improvements Project Including State Highway 68 and South Boundary Road in Monterey, Monterey County, California. 05-Mon-68, Post KM 10.6-11.8 Permit Number	Archaeological Consulting
S-020155		1997	Robert Cartier	Archaeological Testing and Augering at 831 Foam Street in the City of Monterey	Archaeological Resource Management
S-020280	Submitter - Project 2579	1998	Anna Runnings and Trudy Haversat	Preliminary Archaeological Reconnaissance of Assessor's Parcel Number 001-567-20, Monterey, Monterey County, California	Archaeological Consulting
S-020584		1998	Barry A. Price	Cultural Resources Assessment, Pacific Bell Mobile Services Facility SF-811-04, Monterey, Monterey County, California (letter report)	Applied EarthWorks
S-020585	Agency Nbr - SF-813-02	1998	Barry A. Price	Cultural Resources Assessment, Pacific Bell Mobile Services Facility SF-813-02, Monterey, Monterey County, California (letter report)	Applied EarthWorks
S-020974	Submitter - Project 2613;	1998	Mary Doane and Trudy Haversat	Preliminary Archaeological Reconnaissance of Assessor's Parcel Number 001-051-04, -05, -06, -07 and -09, Monterey, Monterey County, California	Archaeological Consulting
S-020974a	Submitter - Project 2613B;	2001	Mary Doane and Trudy Haversat	AC Project 2613B: Centennial Gardens (APNs 001-051-04, -05, -06, -07, &-09 (Letter Report))	Archaeological Consulting
S-020985	Submitter - Project 2610	1998	Anna Runnings and Trudy Haversat	Preliminary Archaeological Reconnaissance of Assessor's Parcel Numbers 001-031-004 and -005, Monterey, Monterey County, California	Archaeological Consulting

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S-020994	Submitter - Project 2591	1998	Mary Doane and Trudy Haversat	Preliminary Archaeological Reconnaissance of Assessor's Parcel Numbers 001-021-006 & -007 and 001-022-002, 003 & -004, Monterey, Monterey County, California	Archaeological Consulting
S-021973		1999	Mary Doane	Historic Property Clearance Report for Proposed Roadway Drainage Improvement on Soledad Drive at Soledad Place, Monterey, Monterey County, California	Archaeological Consulting
S-021995		1999	Gary S. Breschini, Trudy Haversat, Kent Seavey, and Tom Fordham	Preliminary Archaeological Report for a Shipwreck Site on Monterey Beach, Monterey, Monterey County, California	Archaeological Consulting
S-022329	Caltrans - EA 05-0C4001	1999	Terry L. Joslin and Kelda Wilson	Negative Archaeological Survey Report, proposed fence replacement, 05-MON-01, PM R78.4-R81.2 CU 05-168 EA 05-0C4001	California Department of Transportation
S-022405	Voided - S-022406	1999		Prehistoric Property Survey Report, 05-MNT-1, PM 78.48-79.00, Building of New Ocean Side Retaining Walls	Archaeological Consulting
S-022405a		1999	Mary Doane	Historic Property Clearance Report for the Proposed Monterey Bay Coastal Trail Improvements Project Including Lighting and Traffic Signal Modification Along Del Monte Avenue and Erosion Control Along Presidio Curve, Monterey, Monterey County, California (Amended)	Archaeological Consulting
S-022405b		1999	Mary Doane	Historic Property Clearance Report for Proposed Monterey Bay Coastal Trail Lighting & Del Monte Avenue Traffic Signal Modification Project Along Del Monte Avenue, Monterey, Monterey County, California	Archaeological Consulting
S-022657		2000	Izaak Sawyer, Laurie Pfeiffer, Karen Rasmussen, and Judy Berryman	Phase 1 Archaeological Survey Along Onshore Portions of the Global West Fiber Optic Cable Project	Science Applications International Corporation
S-022740	Submitter - AC Project 2827	2000	Mary Doane and Trudy Haversat	Preliminary Archaeological Reconnaissance of the Del Monte Beach Tract #2 Resubdivision, Monterey, Monterey County, California	Archaeological Consulting

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S-022760		2000	Gary S. Breschini	Project Area for Sewer Improvements on Scott Street Between Van Buren and Pacific Streets (letter report)	Archaeological Consulting
S-022764	Submitter - AC Project 2865	2000	Mary Doane and Trudy Haversat	Preliminary Archaeological Reconnaissance for Phase III of the Windows on the Bay Project, Assessor's Parcels 001-801-006, -013, -018, & -019, in Monterey, Monterey County, California	Archaeological Consulting
S-022766	Submitter - AC Project 2849	2000	Mary Doane and Trudy Haversat	Preliminary Archaeological Reconnaissance of the Monterey Peninsula College Library Technology Center, Monterey, Monterey County, California	Archaeological Consulting
S-022800		2000	Mary Doane and Trudy Haversat	Negative Archaeological Survey Report for the Skyline Bridge Retrofit Project Adjacent to State Highway 68 at Skyline Forest Road in Monterey, Monterey County, California. 05-MON-0	Archaeological Consulting
S-023116		2000	Gary S. Breschini and Trudy Haversat	Archaeological Radiocarbon Dating of a Portion of CA-MNT-103, Monterey, Monterey County, California	Archaeological Consulting
S-023819	Submitter - Project 3039	2001	Mary Doane and Trudy Haversat	Preliminary Archaeological Reconnaissance of Assessor's Parcel Number 001-025-004, in Monterey, Monterey County, California	Archaeological Consulting
S-023821	Submitter - 3014	2001	Mary Doane and Trudy Haversat	Preliminary Archaeological Reconnaissance of APN 416-191-001 in Hidden Hills, Monterey County, California	Archaeological Consulting
S-023884		2001	Carolyn Losee	Record Search for Sprint Spectrum's Personal Communication Services (PCS) Wireless "First Baptist Church" Site (Ref#MO45XC037A): No Further Recommendations (letter report)	Archaeological Resources Technology
S-024541	Submitter - Project AC 3101; Voided - S-028066	2001	Mary Doane	Project AC 3101 (letter report)	Archaeological Consulting
S-024589	Voided - S-025077	2002	Cordelia Sutch and John Holson	Archaeological Literature Search and Survey for the Catellus Property Project, City of Monterey, Monterey County	Pacific Legacy, Inc.

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-024894	Submitter - AC Project 3185	2001	Mary Doane and Trudy Haversat	Preliminary Archaeological Reconnaissance of Three Golf Course Improvement Areas at the Spyglass Hill, Spanish Bay and Del Monte Courses, Pebble Beach and Monterey, Monterey County, California	Archaeological Consulting
S-025075		2002	Jonathan Goodrich, John Holson, and Thomas Jackson	Archaeological Survey and Record Search Results for the Window on the Bay Project, City of Monterey, Monterey County, California	Pacific Legacy, Inc.
S-025076		2001	John Holson and Cordelia Sutch	Archaeological Literature Search and Survey for the Lower Presidio Trail Project, City of Monterey, Monterey County	Pacific Legacy, Inc.
S-025078	Submitter - 820-07	2002	Hannah Ballard and John Holson	Archaeological Survey and Record Search Results for the Public Service Center and 625 Van Bueren Projects, City of Monterey, Monterey County, California	Pacific Legacy, Inc.
S-025235		2002	John Holson, Hannah Ballard, and Cordelia Sutch	Historic Property Survey Report for the Foam and Drake Project, City of Monterey, Monterey County, Caltrans District V.	Pacific Legacy, Inc.
S-025235a		2002	John Holson, Hannah Ballard, and Cordelia Sutch	Archaeological Survey Report and Determination of Eligibility for the Foam and Drake Project, City of Monterey, Monterey County	Pacific Legacy Incorporated
S-025440	Submitter - AC Project 3149	2002	Mary Doane and Gary Breschini	Preliminary Archaeological Reconnaissance of Assessor's Parcel 001-692-010, in Monterey, Monterey County, California	Archaeological Consulting
S-025817	Submitter - AC Project 3298	2002	Mary Doane and Trudy Haversat	Preliminary Archaeological Reconnaissance of Assessor's Parcel 001-732-007, in Monterey, Monterey County, California	Archaeological Consulting
S-025832	Submitter - AC Project 3319; Submitter - AC Project 3319B; Voided - S-29122; Voided - S-30152	2002	Mary Doane and Trudy Haversat	Preliminary Archaeological Reconnaissance of Assessor's Parcels 001-729-002, -003 & -004, in Monterey, Monterey County, California	Archaeological Consulting
S-025832a		2004	Mary Doane	APNs 001-729-002, -003 and -004 (letter report)	Archaeological Consulting
S-025832b		2005	Mary Doane	APNs 001-729-002, -003, and -004 (letter report)	Archaeological Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-026943	Submitter - Project 3450	2003	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for Assessor's Parcel 001-012-008, in Monterey County, California	Archaeological Consulting
S-026967	Submitter - Project 3436	2003	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for Assessor's Parcel 001-032-005, in Monterey, Monterey County, California	Archaeological Consulting
S-027043		2003	Cordelia Sutch and John Holson	Archaeological Survey Report for the North Fremont Storm Drain Improvement Project, City of Monterey, Monterey County	Pacific Legacy, Inc.
S-027236	Caltrans - E.A. 05-965100; Voided - S-021957; Voided - S-022452; Voided - S-022453; Voided - S-022744	2000	Gary S. Breschini and Mary K. Doane	Historic Property Survey Report for Proposed Lighthouse Corridor Improvements, Monterey, Monterey County, California	Archaeological Consulting
S-027236a		2000	Gary S. Breschini and Mary Doane	Archaeological Survey Report for Proposed Phase 1 Lighthouse Corridor Improvements, Monterey, Monterey County, California	Archaeological Consulting
S-027236b		2000	Robert C. Pavlik	Historic Architectural Survey Report - MOU Short Form, Lighthouse Corridor in New Monterey	California Department of Transportation
S-027236c		1999	Gary S. Breschini and Mary Doane	Archaeological Survey Report for Proposed Phase 1 Lighthouse Corridor Improvements, Monterey, Monterey County, California	Archaeological Consulting
S-027236d		1999	Gary S. Breschini and Mary K. Doane	Historic Property Survey Report for Proposed Lighthouse Corridor Improvements, Monterey, Monterey County, California	Archaeological Consulting
S-027236e		1999	Gary S. Breschini and Mary Doane	Archaeological Survey Report for Proposed Phase 1 Lighthouse Corridor Improvements, Monterey, Monterey County, California	Archaeological Consulting
S-027289		2003	Eloise Richards Barter	The French Potter of Monterey: Archaeological Investigation of a 1860's Kiln in Monterey, CA	California State Parks, Cultural Resource Division
S-027899		2002	Karen Hildebrand, Edna E. Kimbro, Mike Zuccaro, Elizabeth Moore, Anthony Crosby, and Seth Bergstein	Limited Historic Structure Report for California's First Theater, Monterey State Historic Park, Corner of Pacific and Scott Street, 202 Pacific Street, Monterey, California	California State Parks, Monterey District; Architectural Resources Group
S-027899a		2002	Andrea Gilmore and Norah Wazar	First Theater, Monterey, California, Finishes Study	Building Conservation Associates, Inc.

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-027900		2002	Edna E. Kimbro, Karen Hildebrand, Mike Zuccaro, Elizabeth Moore, Anthony Crosby, and Seth Bergstein	Limited Historic Structure Report for the Alvarado Adobe, Monterey State Historic Park, 510 Dufra Street, Monterey, California	California State Parks, Monterey District; Architectural Resources Group
S-027969		2004	Susan Morley	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel 416 196 005 in the County of Monterey, California	
S-028279	Voided - S-028072	2004	Gary L. Ruggerone	Historic Property Survey Report and Finding of Effect for the Larkin Street Bridge Seismic Retrofit Project, City of Monterey, Monterey County, California (letter report)	California Department of Transportation
S-028279a		2003	Mary Doane	Negative Archaeological Survey Report for the Larkin Street Bridge Seismic Retrofit Project in the City of Monterey, Monterey County, California	Archaeological Consulting
S-028279b		2003	Rand F. Herbert and Theresa Saputo Rogers	Historic Resources Evaluation Report: Larkin Street Bridge Retrofitting and Rehabilitation Project, City of Monterey, Monterey, California	JRP Historical Consulting
S-028888		2004	Hannah Ballard	Archaeological Field Visit and Cultural Material Identification at Colton Hall, Monterey, California (letter report)	Pacific Legacy, Inc.
S-028913		2003	Edna E. Kimbro, Elizabeth Moore, and Anthony Crosby	Limited Historic Structure Report for the Casa Soberanes, Monterey State Historic Park, 336 Pacific Street, Monterey, California	California State Parks, Monterey District
S-029131		2004	Gary S. Breschini	CHOMP Sprint Tower Site MO45xc031-G (letter report).	Archaeological Consulting
S-029341		1997	Thomas L. Jackson	Assessment of Potential Impacts to Cultural Resources, Presidio of Monterey Former Motor Pool, Potential Soil Contamination Investigation.	Pacific Legacy, Inc
S-029471	OHP PRN - FCC0203191	2002	Claudia Gemberling	Proposed Sprint PCS Wireless Telecommunication Facility Project, MO45XC059A Ryan Ranch City Yard, Highway 68/Ryan Ranch Road, Monterey, Monterey County (letter report)	Sprint PCS
S-029637	Submitter - AC Project 2849C	2004	Mary Doane and Tudy Haversat	Preliminary Archaeological Reconnaissance for the Monterey Peninsula College Master Plan EIR, Monterey, Monterey County, California.	Archaeological Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-030090	Submitter - AC Project 3450B	2005	Mary Doane	AC Project 3450B; APN 001-012-008 (letter report)	Archaeological Consulting
S-030093	Submitter - Project 3740	2005	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance of Assessor's Parcels 001-071-006 and 001-071-015, In Monterey, Monterey County, California.	Archaeological Consulting
S-030292		2005	John Holson	Monitoring of Monterey Presidio Landscaping (PL #1539-02) (letter report)	Pacific Legacy, Inc.
S-030517		2005	Heather Blind	Archaeological Monitoring of Construction Activities at Church Street, Monterey, California. (letter report)	Pacific Legacy, Inc.
S-030731		2005	Carolyn Losee and Dana Supernowicz	Collocation ("CO") Submission Packet, FCC Form 621, 698 Laine Street, Monterey County, CA	Archaeological Resources Technology
S-030801	Submitter - Project 3779	2005	Mary Doane and Trudy Haversat	Preliminary Archaeological Reconnaissance for Assessor's Parcel 001-025-006, In Monterey, Monterey County, California.	Archaeological Consulting
S-030861		2005	Carolyn Losee	New Tower ("NT") Submission Packet FCC Form 620, Ave Maria, MT-219-01, 1249 Josselyn Canyon Road, Monterey County, California.	Archaeological Resources Technology
S-030904		2004	Andrew Hope	Caltrans Statewide Historic Bridge Inventory Update, Survey and Evaluation of Common Bridge Types	California Department of Transportation
S-031744	Submitter - Cingular Wireless MT-206-01	2006	Carolyn Losee	Collocation ("CO") Submission Packet, FCC Form 620, Salinas Highway, Cingular Wireless MT-206-01	Archaeological Resources Technology
S-032393	Submitter - Project 3890	2006	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for Assessor's Parcel 001-015-007, in Monterey, Monterey County, California	Archaeological Consulting
S-032394		2000	John Holson	Recovery of Human Remains at CA-MNT-391, 4 pages (letter report)	Pacific Legacy, Inc.
S-032599		2006	Lisa Holm	Archaeological Monitoring of the Lower Presidio Trail Project, City of Monterey, California (letter report)	Pacific Legacy, Inc.
S-032601		2006	Elena Reese	Archaeological Monitoring of Sewer Rehabilitation Construction at the Presidio and Cannery Row Areas, Monterey, California (letter report)	Pacific Legacy, Inc.



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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-032602		2006	Elena Reese	Archaeological Monitoring of Sewer Line Repairs at the Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-032604		2006	Elena Reese	Archaeological Monitoring of the Eisenhower Cottage Sewer Repair at the Presidio, Monterey, California (letter report)	Pacific Legacy, Inc.
S-033311		2001	Dan Osanna	Records Search Results for Sprint PCS Facility MO45XC042A (Del Monte Shopping Center), Monterey, Monterey County, California (letter report)	Michael Brandman Associates
S-033586		2007	Elena Reese	Whalebone Feature found at 570 Munras Avenue, Monterey, Monterey County, California (letter report)	Pacific Legacy, Inc.
S-033677	Submitter - AC Project 2783; Submitter - AC Project 2783B1; Submitter - AC Project 2783B2; Submitter - AC Project 2783C; Submitter - AC Project 2783D; Voided - S-22432; Voided - S-32385; Voided - S-32921; Voided - S-33994; Voided - S-33999	1999	Mary Doane and Trudy Haversat	Preliminary Archaeological Reconnaissance of the Marina Coast Water District Recycled Water Pipeline Project, Monterey County, California	Archaeological Consulting
S-033677a		2006	Mary Doane and Trudy Haversat	Phase 1 Archaeological Reconnaissance for the Marina Coast Water District Regional Urban Water Augmentation Project, Recycled Water Component, Northern Segment, In Marina and Seaside, Monterey County, California	Archaeological Consulting
S-033677b		2007	Mary Doane and Gary S. Breshni	Phase I Archaeological Reconnaissance for the Marina Coast Water District Regional Urban Water Augmentation Project, Recycled Water Component, In Marina, Ord Community, Seaside and Monterey, Monterey County, California (Revised May 22, 2007)	Archaeological Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-033677c		2006	Mary Doane and Gary S. Breschini	Phase 1 Archaeological Reconnaissance for the Marina Coast Water District Regional Urban Water Augmentation Project, Recycled Water Component, in Marina, Old Community, Seaside and Monterey, Monterey County, California	Archaeological Consulting
S-033677d				VOIDED-duplicate of S-55378a	
S-033677e		2007	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for the Marina Coast Water District Well 34 Project, in Marina, Monterey County, California	Archaeological Consulting
S-034014	Other - Project 4063	2007	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for Assessor's Parcels 001-022-019 and 001-023-008, in Monterey, Monterey County, California.	Archaeological Consulting
S-034032	Submitter - Project 2579B	2007	Mary Doane and Gary S. Breschini	Supplementary Archaeological Reconnaissance for the Cole House/Triples Project on Assessor's Parcel 001-567-020, in Monterey, Monterey County, California	Archaeological Consulting
S-034096	Submitter - Nextel Site No. CA-0576F		Lorna Bilbat	Nextel Communications Wireless Telecommunications Service Facility - Monterey County, Nextel Site No. CA-0576F/Monterey (letter report)	EarthTouch, LLC
S-034216	Voided - S-36240	2005	Colin I. Busby	Cultural Resources Assessment: Technical Report for Proponent's Environmental Assessment (PEA), California American Water, Monterey County, Coastal Water Project	Basin Research Associates, Inc.
S-034216a		2009	Kari Jones and John Holson	Archaeological Survey for the Cal-Am Coastal Water Project, Monterey County, California	Pacific Legacy, Inc.
S-034349	Submitter - Project 4125	2007	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for Assessor's Parcels 001-026-002 and 003, in Monterey, Monterey County, California	Archaeological Consulting
S-034430		2007	Elena Reese	Archaeological Monitoring of Solar Streetlight Excavations at the Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-034432		2008	Elena Reese	Archaeological Monitoring for the Presidio Museum and Artillery Street Sewer Repair Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-034730	Submitter - AC Project 4135	2008	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for the Resort at Del Rey Oaks in the Former Fort Ord, Monterey County, California	Archaeological Consulting
S-034826		2008	Andrew Pulcheon	A Cultural and Paleontological Resources Study for the Del Monte Boulevard Hotel Project	LSA Associates, Inc.
S-034953	Other - PL #1946-07	2008	Elena Reese	Archaeological Monitoring for the Fitch Avenue and Lower Presidio Sewer Repairs Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-034954		2008	Elena Reese	Archaeological Monitoring for the Presidio Building 263 Sewer Repairs Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-035104	OHP PRN - FCC080530B; Submitter - Project No. 61082188	2008	Carolyn Losee	Cultural Resources Investigation for AT&T Mobility Project CN3214 "Wave Street", 600 Hawthorne St., Monterey City and County, CA 93940, EBI Project No. 61082188 (letter report)	Archaeological Resources Technology
S-035201	Other - USA071119A	2007	Thomas L. Jackson	Archaeological Survey for Proposed Construction of a Security Fence near Pvt. Bolio Gate, Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-035229	Submitter - CN-3766	2008	Lorna Billat	Collocation ("CO") Submission Packet, FCC Form 621, Cannery Row, CN-3766	Earth Touch, Inc.
S-035229a		2008		Cultural Resources Study of the Cannery Row Project AT&T Mobility Site No. CN-3194 886 Cannery Row, Monterey, Monterey County, California 93940	Historic Resource Associates
S-035435	OHP PRN - FCC071130D	2007	Brian W. Hatoff	Collocation ("CO") Submission Packet, Verizon Wireless, Monterey Heights, 36302362.02362, 350 Calle Principal, Monterey	URS Corporation

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-035563		2008	Elena Reese	Archaeological Monitoring for the Lower Presidio Sewer Spot Repairs Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-035565		2008	Elena Reese	Archaeological Monitoring for the 429 Col. Holland Road Sewer Repair Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-035566		2008	Elena Reese	Archaeological Monitoring for the Presidio Building 453 Sewer Repair Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-035567		2008	Elena Reese	Archaeological Monitoring for Building 358 French Drain Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-035568	Other - PL #2127-02	2010	Elena Reese	Report of Inadvertent Discovery During Project Excavations for the Pacific and Jefferson Utility Replacement Project, Monterey, California (letter report)	Pacific Legacy, Inc.
S-035569	Other - PL #2127-01	2008	Elena Reese	Archaeological Monitoring for the Pacific and Madison Streets Flagpole Repair Project Excavations in Monterey, California (letter report)	Pacific Legacy, Inc.
S-035570	Submitter - PL #1946-08	2008	Elena Reese	Report of Inadvertent Discovery of Human Remains During Project Excavations for the Lower Presidio Pedestrian Trail Project at the Corner of Seeno and Van Buren Streets in the City of Monterey, California (letter report)	Pacific Legacy, Inc.
S-035571		2008	Elena Reese	Archaeological Monitoring for Monterey Presidio Building 220 Utility Line Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-035572	Other - PL# 2127-07	2008	Elena Reese	Archaeological Assessment Report for the Hartnell Gulch Pedestrian Walkway Project, City of Monterey, Monterey County, California (letter report)	Pacific Legacy, Inc.
S-035573		2008	Elena Reese	Archaeological Monitoring for the Lower Presidio Pvt. Bollo Fence Installation Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-035574		2008	Elena Reese	Archaeological Monitoring for the Lower Presidio Pvt. Bolio Road Repairs Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-035731		2004	Amanda Blosser and William Dewey	Hotel Del Monte, East Annex, (Naval Postgraduate School, Building 221), (Naval Post Graduate School, Herrmann Hall Building 221), Monterey, Monterey County, California: Photographs, Written Historical and Descriptive Data	JRP Historical Consulting Services: Historic American Buildings Survey, National Park Service
S-035983		2004	Amanda Blosser and William Dewey	Hotel Del Monte, West Annex, (Naval Postgraduate School, Building 222), (Naval Postgraduate School, Herrmann Hall Building 222), Monterey, Monterey County, California: Photographs, Written Historical and Descriptive Data	JRP Historical Consulting Services: Historic American Buildings Survey, National Park Service
S-036108	Submitter - AC Project 4212A	2009	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for the California-American Water Company Improvement Project 1, PRV Stations in the Coastal Zone, In Monterey and Seaside, Monterey County, California.	Archaeological Consulting
S-036276	OHP PRN - USA080229A	2009	Elena Reese	Archaeological Monitoring for the Lower Presidio Pvt. Bolio Road Security Barrier Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-036276a		2008	Milford Wayne Donaldson	USA080229A, Proposed Construction of a Ground Retractable Automobile Barrier, Presidio of Monterey Historic District, Monterey County, California	Office of Historic Preservation
S-036279		2009	Elena Reese	Archaeological Monitoring for the Presidio Building 220 Sewer Repairs Project Excavation in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-036279a		2008	James M. Willison	Request for Section 106 Consultation for the Presidio Building 220 Sewer Repairs Project in the Lower Presidio of Monterey, California (letter report)	Department of the Army
S-036377	Other - USA 101103 A	2010	Elena Reese	Archaeological Documentation and Impact Assessment B for CA-MNT-930H within the Lower Presidio of Monterey, in the City of Monterey, California (letter report)	Pacific Legacy

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-036394	Submitter - AC Project 4305B; Voided - S-35890	2009	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for Assessor's Parcels 001-032-010 and 001-032-011, in Monterey, Monterey County, California	Archaeological Consulting
S-036394a		2009	Gary S. Breschini, Trudy Haversat, and Mary Doane	Secondary Archaeological Testing and Archaeological Mitigation Plan for Assessor's Parcels 001-032-010 and 001-032-011, Monterey County, California	Archaeological Consulting
S-036395	Submitter - Project 4305A	2009	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for Assessor's Parcel 001-031-003, In Monterey, Monterey County, California	Archaeological Consulting
S-036639	Submitter - AC Project 3922	2009	Gary S. Breschini	Cannery Row Hotel monitoring and mitigation (letter report)	Archaeological Consulting
S-036640	Submitter - AC 4305a	2009	Gary S. Breschini	300 Cannery Row (letter report)	Archaeological Consulting
S-036698		2010	Elena Reese	Archaeological Monitoring for the Construct Sidewalk to Access DLL Classrooms, Health and Safety: Replace Walkway between High Street Gate and Building 207 Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-036722		2003		Visual Design Elements Documentation, Herrmann Hall, Naval Postgraduate School, Monterey, California	Architectural Resources Group
S-036823		1999		Historical Evaluation, Southern Pacific Railroad Sites	Architectural Resources Group
S-036896		2010	John Holson	Historic Property Survey Report for Pacific Street/Del Monte Avenue Intersection	Pacific Legacy, Inc.
S-037143	Submitter - AC 4386B; Submitter - AC 4386C; Voided - S-37704; Voided - S-37928	2010	Gary S. Breschini	Stokes Adobe (letter report)	Archaeological Consulting
S-037143a		2010	Gary S. Breschini	Stokes Adobe (letter report)	Archaeological Consulting
S-037143b		2011	Gary S. Breschini	Stokes Adobe, 500 Hartnell St. (letter report)	Archaeological Consulting
S-037154	Submitter - AC Project 4392	2010	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for the Driveway at Casa Boronda, APN 001-732-001, Monterey County, California.	Archaeological Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-037223	Submitter - AC Project 4425; Submitter - AC Project 4425B; Voided - S-37927	2010	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for the Camino Aguajito/Agujito Road Water Main Project, Monterey, Monterey County, California	Archaeological Consulting
S-037223a		2010	Gary S. Breschini	Camino Aguajito/Agujito Road water main (letter report)	Archaeological Consulting
S-037231	OHP PRN - FAA100126A; Submitter - CWA# 2909-01; Submitter - SWCA Cultural Resources Report Database No. 09-29; Submitter - SWCA Project No. 15083	2010	Philip G. Hanes and Nancy E. Sikes	Cultural Resources Survey for the Proposed Monterey Peninsula Airport Runway Safety Area Improvement Project, Monterey, Monterey County, California	SWCA Environmental Consultants
S-037231a		2009	Philip G. Hanes	Cultural Resources Survey for the Proposed Monterey Peninsula Airport Runway Safety Area Improvement Project, City of Monterey, Monterey County, California	SWCA Environmental Consultants
S-037231b		2016	Lisa Holm, Elena Reese, Amber Barton, Ashlee Bailey, Samantha Schell, Mary O'Neill, Amy Kovak, Shanna Streich, and Ryan Gross	Data Recovery Report for Portions of CA-MNT-1438/H, Monterey Peninsula Airport District, Monterey County, California	Pacific Legacy, Inc.
S-037231c		2010	Robin K. Hunt and Milford Wayne Donaldson	FAA100126A, Section 106 Consultation Runway Safety Area Improvements Monterey Peninsula Airport, City of Monterey, CA	Federal Aviation Administration; Office of Historic Preservation
S-037231d		2017	Douglas R. Pomeroy, Tristan Tozer, and Chris Morello	FAA100126A Final Report for Implementation of a Treatment Plan to Address the Unanticipated Discovery of Archaeological Materials at the Monterey Regional Airport, Runway Safety Area Project Site, Monterey County, California.	Office of Historic Preservation, Federal Aviation Administration, Monterey Regional Airport
S-037300	Submitter - PL #2127- 16	2010	Matthew Armstrong	Report of Unanticipated Discovery During El Estero Lake Edge Restoration, Monterey, California (letter report)	Pacific Legacy, Inc.

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-037304	Submitter - PL #2127-18	2010	Elena Reese	Archaeological Assessment Report for the Franklin Street Storm Drain Project, City of Monterey, Monterey County, California (letter report)	Pacific Legacy, Inc.
S-037305		2010	Elena Reese	Archaeological Monitoring for the Lower Presidio Historic Park (LPHP) Ground Disturbance Mitigation Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-037361		2010	Susan Morley	Final Report on the Cultural Resources Monitoring for Building 343, Presidio of Monterey, City of Monterey, California	
S-037361a		2009	Mark G. Reese and Milford Wayne Donaldson	USA090313K, Section 106 Consultation for installation of Anti-Ram Barrier around the perimeter of Building 343 (Telephone Exchange) at the Presidio of Monterey	US Army Garrison, Presidio of Monterey, Office of Historic Preservation
S-037566		2010	Elena Reese	Archaeological Monitoring for the Remove Inactive Communications Lines, Base-wide, American Recovery and Reinvestment Act (ARRA) Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-037630		2010	Elena Reese	Archaeological Documentation and Impact Assessment A for CA-MNT-930H within the Lower Presidio of Monterey, in the City of Monterey, California (letter report)	Pacific Legacy
S-037708	Submitter - AC 4305	2010	Gary S. Breschini	SC#2010061043, 300 Cannery Row and 258/270 Foam Street (letter report)	Archaeological Consulting
S-037725		2010	Allika Ruby	Archaeological Survey Report for the Monterey Light Rail Transit Project	Far Western Anthropological Research Services, Inc.
S-037726		2010	Elena Reese	Archaeological Monitoring for the Install Turnstile Gate at High Street Gate Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy
S-038016		2010	Carrie D. Willis and Kathleen A. Crawford	Cultural Resources Records Search and Site Visit for T-Mobile West Corporation a Delaware Corporation, Candidate SF05889-A (1st Baptist Church), 600 Hawthorne Street, Monterey, Monterey County, California (letter report)	Michael Brandman Associates



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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-038159	Other - USA101103A	2010	Charles A. Parker and Brooke Crumpton	Archaeological Reconnaissance Report for the General Instruction Building Project at the Presidio of Monterey (letter report)	Pacific Legacy, Inc.
S-038159a		2010	James M. Wilson	USA101103A: U.S. Army Garrison, Presidio of Monterey (POM), Proposed Undertaking to Install an Underground Communication Line	Department of the Army, US Army Garrison
S-038160	OHP PRN - USN100607A	2003	Clark Pinnacle and James D. McCord	CDMP Development Plan, Historic Housing CDMP Presidio of Monterey/Naval Postgraduate School	Clark Pinnacle
S-038171	Other - USA101005A	2010	James M. Willison	The Proposed Undertaking is an Interior Remodel of Building 254 (letter report)	Presidio of Monterey, Department of the Army
S-038172	Other - USA100930A	2010	James M. Willison	Proposed installation of a French drain adjacent to the garages associated with housing units 320 and 322 Fitch Avenue located within the Presidio of Monterey's historic district (letter report)	Department of the Army, U.S. Army Garrison, Presidio of Monterey
S-038463	Submitter - AC 4514	2011	Mary Doane and Gary S. Breschini	Preliminary/Archaeological Assessment for APN 173-101-012, Monterey, Monterey County, California	Archaeological Consulting
S-038476		2011	Gary Breschini	APN 259-131-001 (letter report)	Archaeological Consulting
S-038493	Submitter - Project 4536; Voided - S-043695	2011	Mary Doane and Gary Breschini	Preliminary/Archaeological Assessment for APN 101-111-002, Monterey, Monterey County, California	Archaeological Consulting
S-038493a		2013	Mary Doane and Gary Breschini	Supplementary Archaeological Assessment of APN 101-111-002, Monterey, Monterey County, CA	Archaeological Consulting
S-038505	Submitter - AC Project 4522	2011	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for the Zipitrek Ecotours Jacks Peak Project, Monterey, Monterey County, California	Archaeological Consulting
S-038516	Submitter - AC 4392B	2011	Gary Breschini	Boronda Adobe (letter report)	Archaeological Consulting
S-038722	Other - PL 2402-04	2011	Elena Reese	Archaeological Assessment Report for the Van Buren Street Project, City of Monterey, Monterey County, California (letter report)	Pacific Legacy, Inc.

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-038723	Submitter - PL #2402-03	2011	Elena Reese	Archaeological Monitoring for the Hartnell Gulch Pedestrian Walkway Project in the City of Monterey, California (letter report)	Pacific Legacy, Inc.
S-038724	Submitter - PL# 2402-09	2011	Lisa Holm	Archaeological Survey Report for the Mark Thomas Bikeway Project, City of Monterey, Monterey County, California (letter report)	Pacific Legacy, Inc
S-038725	Other - PL#2372-01	2011	Elena Reese	Archaeological Monitoring for the Visitor Centers and Access Control Points, High Street and Private Bollo Road Gates Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-038727	Submitter - PL #2521-02	2011	Elena Reese	Archaeological Monitoring for the Presidio of Monterey Water Line Potholing Project Excavation in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-038729	Other - PL #2604-01	2011	Elena Reese	Archaeological Monitoring for the Building 324 ADA Compliant Parking, Access Ramp, and Restroom Project Excavation in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-038841	Other - Project 4626	2012	Mary Doane and Gary S. Breschini	Preliminary Archaeological Assessment for APN 173-101-002, Monterey, Monterey County, California, Project 4626	Archaeological Consulting
S-039072		2009		Cultural Resources Review, Gigling Road and South Boundary Road Improvements, Within Former Fort Ord, Monterey County, California	Basin Research Associates
S-039231		2012	Elena Reese	Archaeological Monitoring for the PRV #2 Vault at Building 614 Project Excavation in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy
S-039235		2011	Elena Reese and John Holson	Extended Phase I Survey for General Instruction Building 11 and National Register of Historic Places Evaluation for PL-GIB11-01, Presidio of Monterey, Monterey County, California	Pacific Legacy, Inc.
S-039271		2012	Carolyn Losee	Cultural Resources Investigation for AT & T Mobility CNU3619/FA#10087972 Highway 68 & Olmsted, Monterey, California 93940 (letter report)	Archaeological Resources Technology

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-039284		2012	Elena Reese and John Holson	An Archaeological Survey for the Barracks Phase I and IV and Huckleberry Hill Nature Preserve, Presidio of Monterey, City of Monterey, Monterey County, California	Pacific Legacy, Inc.
S-039285		2012	Elena Reese	Archaeological Monitoring Report for the General Instruction Building Fiscal Year 09 Communication Line Project Excavations in the Lower Presidio of Monterey, Monterey California (letter report)	Pacific Legacy, Inc.
S-039287		2012	Elena Reese	Archaeological Monitoring Report for the Replace Deteriorated Sewer Lateral, Buildings: 208, 209, 210, 211, 212, 213, 214, 215, 216, 218, 450, and 451 in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-039288		2012	Elena Reese	Archaeological Monitoring the Sinkhole Investigation, Water Pipe Exposure for PRV #2, and Relocation of Water Meter for ADA Ramp Compliance in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy
S-039292	Submitter - AC Project 4665	2012	Mary Doane	Preliminary Archaeological Assessment for Parking Lot Renovation on APN 001-572-021, Monterey, Monterey County, California	Archaeological Consulting
S-039580	OTIS Report Number - FCC_2016_1020_008 ; Submitter - AT&T CCL03398	2012	Carolyn Losee	Cultural Resources Investigation for AT&T Mobility CNU3398 "Highway 1 and 68" 23625 Holman Highway, Monterey City and County, California 93942 (letter Report)	Archaeological Resources Technology
S-039580a		2016	Carolyn Losee	Cultural Resources Investigation for AT&T Mobility CLL03398 "Hwy 1-Hwy 68" 23625 Holman Highway, Monterey City and County, California 93940 (letter Report)	Archaeological Resources Technology
S-039580b		2016	Carolyn Losee	FCC Wireless Telecommunication Bureau Collocation ("CO") Submission Packet, FCC Form 621, AT&T Mobility/CLL03398 "Hwy 1-Hwy 68" 23625 Holman Highway, Monterey CA	Diablo Green Consulting; Archaeological Resources Technology
S-039580c		2016	Carolyn Losee and Julianne Polanco	FCC_2016_1020_008, CLL03398 "Hwy 68" 23625 Holman Highway, Monterey, Collocation	Diablo Green Consulting; Archaeological Resources Technology; Office of Historic Preservation

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S-039608	Agency Nbr - 665-08-3-147	1940	Christian Ecklon	California Historical Survey Series, Historic Landmarks, Monuments and State Parks: Robert Louis Stevenson House - Monterey County, Registered Landmark #352	Department of Natural Resources, Division of Parks
S-039777		2012	Elena Reese	Archaeological Monitoring for the General Instruction Building 11 Project Excavations in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy
S-039778		2012	Elena Reese	Archaeological Assessment Report for the 512 and 526 Pierce Street Project, City of Monterey, Monterey County, California (PL-2616-06) (letter report)	Pacific Legacy
S-040224	Submitter - AC Project 4512B	2013	Mary Doane and Gary Breschini	Preliminary Archaeological Reconnaissance of the Santa Catalina School Campus, Monterey, Monterey County, California	Archaeological Consulting
S-042551		2012	Carolyn Losee	Cultural Investigation for AT&T Mobility GNU3418 Hwy 1/Munras 200 Glenwood Circle, Monterey City and County, California 93940	Archaeological Resources Technology
S-042856	OHP PRN - USA110926B	2011	Laura Prishmont Quimby	Limited Archaeological Investigations at CA-MNT-931, in Support of the Install and Repair Concrete Sidewalk and Pedestrian Bridge Project	United States Army Garrison, Presidio of Monterey
S-042856a		2011	Milford Wayne Donaldson	USA110926B, Section 106 Consultation for the Repair and Installation of Concrete Sidewalk and Pedestrian Bridge, Presidio of Monterey, Monterey County, CA	Office of Historic Preservation
S-042856b		2012	James M. Willison	Amendments to USA110926B for the Repair and Installation of Concrete Sidewalk and Pedestrian Bridge Project, Presidio of Monterey, Monterey County, CA (letter report)	U.S. Department of the Army
S-042907	OHP PRN - USN110920A	2011	Noelle C.S. Shaver	A Class III Archaeological Survey and Focused Trenching Program for the Proposed Expansion and Reconfiguration of Lots "A" and "S", Naval Postgraduate School (NPS) Monterey, Monterey, California	NAVFAC SW Environmental Core
S-043046		2013	Gary S. Breschini	Monitoring in Monterey Presidio, Infantry and Artillery Streets (letter report)	Archaeological Consulting
S-043049	Submitter - AC4665B	2013	Gary S. Breschini	Parking Lot Behind 426 Alvarado Street in Monterey, Monterey California (letter report)	Archaeological Consulting

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S-043183		2013	Lorna Billat	Collocation Submission Packet; Monterey Bay Aquarium CNU3766; 886 Cannery Row, Monterey, California; Cultural Resource Study of the Monterey Bay Aquarium Project; AT&T Site No. CNU3766.	EarthTouch, Inc.
S-043183a		2013	Dana E. Supermowicz	Cultural Resources Study of the Monterey Bay Aquarium Project; AT&T Site No. CNU3766, 886 Cannery Row, Monterey, Monterey County, California 93940	Historic Resources Associates
S-043736	Submitter - AC Project 4884	2013	Mary Doane and Gary S. Breschini	Preliminary Archaeological Assessment for APN 101-031-002, Monterey, Monterey County, California	Archaeological Consulting
S-043738	Submitter - Project 4885	2013	Mary Doane and Gary S. Breschini	Preliminary Archaeological Assessment for APN 101-102-007, Monterey, Monterey County, California	Archaeological Consulting
S-043775		2014	Lorna Billat	Collocation Submission Packet, Downtown Monterey, CNU3505, 2 Portola Plaza, Monterey City and County	EarthTouch, Inc.
S-043775a		2014	Dana E. Supermowicz	Architectural Evaluation Study of the Downtown Monterey Project; AT&T Site No. CNU 3387, 2 Portola Plaza, Monterey, Monterey County, California 93940	Historical Resource Associates
S-044204	Submitter - AC Project 4931	2014	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance of APN 001-733-002, Monterey, Monterey County, California	Archaeological Consulting
S-044216	Agency Nbr - 4907	2014	Mary Doane and Gary S. Breschini	Preliminary Archaeological Assessment for the Causeway Shoreline Embankment Erosion Control Project; Monterey, Monterey County, California	Archaeological Consulting
S-044240	OHP PRN - USN 2013 05140 001	2013		Naval Support Activity Monterey Herrmann Hall Exterior Repairs Rehabilitation Design Methodology	Heritage Architecture & Planning
S-044241	OHP PRN - USN 100407A; Submitter - Project No. 1024	2011	James D. McCord	Roman Plunge Complex - Historic Restoration, Naval Postgraduate School, Monterey; Restoration Design Methodology	Historic Preservation & Adaptive Reuse
S-044243	OHP PRN - USA070719A; Other - DOE-27-86-0001-0052	2012	James M. Willison	Proposed Rehabilitation of the Weckerling Center, Building 326, Presidio of Monterey Historic District, Monterey County, California (USA070719A) (letter report)	United States Department of the Army, US Army Garrison, Presidio of Monterey

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S-044243a		2012	Milford Wayne Donaldson	USA070719A, Section 106 Consultation for Work on Weckerling Center or Building 326, Presidio of Monterey, Monterey County, CA	Office of Historic Preservation
S-044247	OHP PRN - FCC120124A; Submitter - CC3668	2011	Dana E Supernowicz	Architectural Evaluation Report of the Fremont Boulevard and Canyon Del Rey Boulevard Project, AT&T Mobility Site No. CC3668, 833 Portola Drive, Del Rey Oaks, Monterey County, California, 93940	Historic Resource Associates
S-044250	Caltrans - EA 05-448000; OHP PRN - FHWA 040330A	2004	Mary L. Manery and Cindy L. Baker	Historic Resources Evaluation Report, State Route 68 (Holman Highway) Proposed Widening Project, City of Monterey, Monterey County, California, 05-MON-068-KP 6.1/7.1 (PM 3.8/4.4) EA 05-448000	PAR Environmental Services, Inc
S-044250a		2004	Valerie Levulett, Stephen D. Mikesell, and W. Knowx Mellon	Re: FHWA040330A; Re: Determinations of Eligibility for the Proposed Holman Highway Widening Project, State Route 68, Monterey County, CA (Holman Highway Widening Project, 05-MON-068, KP 6.1/7.1 (PM 3.8/4.4), EA 05-448000)	Caltrans District 5, SHPO, OHP
S-044264		1983	Lee Motz and Larry Felton	Grizzly Bears and Transfer Ware: Early Trash Pits from Monterey State Historic Park	Department of Parks and Recreation
S-044267		1983	Larry Felton and Lee Motz	Preliminary Draft: Historic Changes to Doors and Windows in the Diaz House, Cooper-Molera Adobe Complex, Monterey SHP	California Department of Parks and Recreation
S-044268		1976	William Wallace	Cooper-Molera Adobe, Monterey, William Wallace - Historical/archaeological proposals, progress reports, 1973-1975	
S-044271	Other - 4-M63 (P); Other - H4; Other - p R-C	1977	Robert F. Heizer	Report on Archaeological Examination of Subfloor Soils and Features in the Cooper-Molera Adobe, Monterey, Carried out from August 7-15, 1977	University of California, Berkeley
S-044272		1982	David L. Felton and Lee Motz	A Summary of Archaeological Features Encountered During the Restoration of the Cooper-Molera Adobe Complex, Monterey, California	California Department of Parks and Recreation
S-044483	Agency Nbr - PM: 30911661	2012	Beatrice Cox and Caprice "Kip" Harper	Cultural Resources Constraints Report: Del Monte 2103 Targeted Circuit,	Garcia and Associates
S-044483a		2013	J. Plath	Del Monte 2103, 0911661 - Field Review	

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S-044484	Agency Nbr - PL-2616-21; OTIS Report Number - EPA_2013_0916_001	2013	Lisa Holm, Katherine Chao, and John Holson	Archaeological Assessment for the City of Monterey 2013 Sewer Rehabilitation Project, Monterey County, California, PL-2616-21	Pacific Legacy, Inc.
S-044484a		2017	Julianne Polanco and Cedric Irving	Modification of Area of Potential Effects, Sewer System Rehabilitation Project, City of Monterey, California	California Office of Historic Preservation; State Water Resources Control Board
S-044509		2013	Susan Morley	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number (APN) 103 171 025 in an unincorporated portion of Carmel, Monterey County, California	
S-044525		2012	Susan Morley	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number (APN) 101-131-010 [PLN # 120787] in an unincorporated portion of Monterey County, California	
S-044912		2008	John Dougherty, Mary L. Manery, and Marshall Millett	Cultural Resources Constraints Study for the Replacements of 1 Pole on the Salinas-Laureles High Voltage Transmission Line, Monterey County, CA	PAR Environmental Services, Inc.
S-044974	OHP PRN - USA 120305A	2006	John Holson	Proposed Presidio Walkway Project in the Lower Presidio Area (letter report)	Pacific Legacy Incorporated

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S-045014	Other - MS 366 (Lowie Museum Cal. Arch. MS 22)	1913	E.W. Gifford	Notes on Monterey County Shellmounds	University of California, Berkeley; Department of Anthropology
S-045068	Submitter - Project 4950	2014	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for the proposed Monterey Salinas Transit Electric Bus Charging Station on Tyler Street in Monterey, Monterey County, California	Archaeological Consulting
S-045245		2014	Amy Fouch Porras	Cultural Resources Study for the PG&E Monterey Pipeline Replacement Project (DFM 1815-02; Spread 3 MP 7.98-8.34, Spread 4 MP 8.67-9.17, Spread 4.5 MP 11.60, Spread 7b MP 15.85-16.95), Monterey County, California; Spread 3, 05-MON-68 PM 13:04- 13:38; Spread 4, 05-MON-68 PM 12:01- 12:72; Spread 4.5, 05-MON-68 PM 9.81-9.84; Spread 7b, 05-MON-68 PM 4.46-5.59	Far Western Anthropological Research Group, Inc.
S-045432		2014	Katherine Chao	Archaeological Monitoring for the Sloat Monument Renovation Essential Elements Project in the Lower Presidio Historic Park, City of Monterey, Monterey County, California (letter report)	Pacific Legacy, Inc.
S-045433		2013	Elena Reese	Archaeological Monitoring for the Soldier Field Sidewalk in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-045434		2013	Lucian N. Schrader III	Archaeological Monitoring for the Presidio of Monterey Building 263 Communications Line Project in the Lower Presidio of Monterey, California (letter report)	Pacific Legacy, Inc.
S-045490	Submitter - SWCA Cultural Resources Database No. 14- 281; Submitter - SWCA Project No. 027400.00	2014	Debi Howell-Ardila, Steven Treffers, Shannon Carnack, and John Dieler	Historic Resources Assessment and Survey Report, Monterey Regional Airport, Monterey, California	SWCA Environmental Consultants
S-045562	Submitter - AC Project 4950B	2014	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for the Proposed Monterey Salinas Transit Bus Stop on Tyler Street in Monterey, Monterey County, California	Archaeological Consulting



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S-045829	Submitter - AC Project 5035	2014	Mary Doane and Gary S. Breschini	Phase I Archaeological Survey for the North Fremont Boulevard Pedestrian, Bicycle, and Transit Project, Monterey and Seaside, Monterey County, California	Archaeological Consulting
S-045899	Submitter - AC Project 4994	2014	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance of the Monterey Institute of International Studies Campus, Monterey, Monterey County, California	Archaeological Consulting
S-045901	Submitter - Project 5012	2014	Mary Doane and Gary S. Breschini	Preliminary Archaeological Reconnaissance for the Former Vapor Cleaners Site Investigation Project, Monterey, Monterey County, California	Archaeological Consulting
S-046024		2015	Patricia Paramoure and Charles Mikulik	Presidio of Monterey, Building 326 - Weckerling Center - Renovation Project, Archaeological Monitoring Report	Patricia Paramoure Archaeological Consulting
S-046576	Submitter - AC 5112	2015	Mary Doane and Gary S. Breschini	Preliminary Archaeological Assessment of APN 001-123-014, Monterey, Monterey County, California	Archaeological Consulting
S-046703	Agency Nbr - Contract No. N62473- 11-D-2222 (Task Order 0012); Agency Nbr - PN 17600.12; OHP PRN - USN_2014_0721_00 1	2012	Dayna Giambastiani, Leslie Fryman, and Kari Sprengeler	Cultural Resource Survey of 327 Acres at Naval Support Activity Monterey, Monterey County, and Detachment Santa Cruz, Santa Cruz County, California	ASM Affiliates
S-046703a		2014	Carol Rolan-Nawi and Johanna Turner	USN_2014_0721_001; Wetlands Restoration at Naval Industrial Reserve Ordinance Plant (NIROP), Ben Lomond Mountain, Santa Cruz, CA	Office of Historic Preservation, Department of the Navy
S-046709		2015	Susan Morley	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number 101-221-014 in an Unincorporated Portion of Monterey County, California	
S-046717		2015	Susan Morley	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number 101-221-014 in an unincorporated portion of Monterey County, California	

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S-046932	Other - Site Number: 30000; Submitter - 2014-CTI-0043; Submitter - Duke CRM Contract No. C-0130	2014	Lisa Heise	New Tower Review FCC Form 620, Monterey, Site Number: 30000, 2455 Henderson Way, Monterey, California, Monterey County, MartinEnviro Project Number: 2014-CTI-0043	MartinEnviro
S-046932a		2014	Curt Duke	Cultural Resources Assessment, CTI Towers Assets I, LLC, Facility Number: 30000, Facility Name: Monterey, 2455 Henderson Way, Monterey, CA 91748, Monterey County	Duke Cultural Resources Management, LLC
S-047257	OHP PRN - USN_2015_0211_001	2015	Johanna Turner	Replacement of High Voltage Switching Stations and Transformers at Naval Support Activity (letter report)	Department of the Navy
S-047257a		2015	Carol Roland-Nawi	USN_2015_0211_011: Replacement of High Voltage Switching Stations & Transformers at Naval Support Activity, (your 11000, Ser. N4A033 of February 09, 2015	Office of Historic Preservation
S-047320	Submitter - N62473-14-D1413 to 10	2016	Jack Meyer	Phase I Exploratory Geoarchaeological Assessment of the Naval Support Activity (NSA) Monterey, California N62473-14-D-1413 to 10	Far Western Anthropological Research Group, Inc.
S-047691	Submitter - AC 5146	2015	Gary S. Breschini	Preliminary Archaeological Assessment of APN 001-035-008 & 001-035-009, in Monterey, Monterey County, California	Archaeological Consulting
S-047698	Submitter - AC 5138	2015	Gary S. Breschini	Preliminary Archaeological Assessment of APN 001-062-022 in Monterey, Monterey County, California	Archaeological Consulting
S-047742		2013	Carolyn Losee	Cultural Resources Investigation for AT&T Mobility CNU3941 "Naval Postgraduate School" 1 Old Golf Course Road, Monterey City and County, California 93940 (letter report)	Archaeological Resources Technology
S-047800	OHP PRN - FCC_2016_0531_004 ; OHP PRN - FCC080530B	2016	Carolyn Losee	Cultural Resources Investigation for AT&T Mobility CCL03214 "Wave Street" 600 Hawthorne Street, Monterey City & County, California 93940 (FCC080530B) (letter report)	Archaeological Resources Technology

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S-047800a		2016	Julianne Polanco	FCC_2016_0531_004; CCL03214 "Wave Street" 600 Hawthorne Street, Monterey, Collocation	Office of Historic Preservation
S-048033		2016	Susan Moley	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number APN 101-151-002 in an unincorporated area of Rancho Aguajito, Monterey County, California	
S-048062		2016	Stella D'Oro	Cultural Resource Monitoring letter report for the Cannery Row Sidewalk Improvements Projects in Monterey County, California (letter report)	Albion Environmental, Inc.
S-048229		2016	Ryan Brady	Cultural Resources Constraints Review for Via Paraiso Handrail Improvements Project, City of Monterey, Monterey County, California (letter report)	Dudek
S-048230		2016	Ryan Brady	Cultural Resource Constraints Review for Mar Vista Storm Drain Improvements Project, City of Monterey, Monterey County, California (letter report)	Dudek
S-048359		2016	Stella D'Oro	Cultural Resource Monitoring for boring at 553 Munras Avenue, Monterey, California (letter report)	Albion Environmental, Inc.
S-048441	OHP PRN - USN_2014_0422_002	2014	Lisa Holm	Cultural Resources Investigation for the Storm Drain Rehabilitation Project, City of Monterey, Monterey County, California (2801-02) (letter report)	Pacific Legacy, Inc.
S-048441a		2013	Carol Roland- Nawi and T.C. Faller	USN_2014_0422_002: Storm Drain Rehabilitation at Naval Support Activity Monterey, Monterey, CA	Office Of Historic Preservation; Department of the Navy
S-048462	OHP PRN - ADOE-27-95-005-00; OHP PRN - USA930507Z-(BRAC); OHP PRN - USA940722A; OHP PRN - USA940826F; Voided - S-48655	1993	David W. Babson	An Inventory of Historic-Period Archaeological Sites at Fort Ord, Monterey County, California	Tri-Services Cultural Resources Team, United States Army

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S-048462a		1994	James E. Bowman	Management Summary of the Historic Period Archaeological Survey at Fort Ord, Monterey County, California	Tri-Services Cultural Resources Center, U.S. Army Corps of Engineers, Construction Engineering Research Laboratories
S-048462b		1993	Daniel Lapp, Chad Randl, Patrick Nowlan, Virge Jenkins, Carla Spradlin, Joseph Murphy, Sam Hunter, and Don Uzarski	Historical and Architectural Documentation Reports for Fort Ord, California	U.S. Army Construction Engineering Research Laboratory, Tri-Services Cultural Resources Research Center
S-048462c		1992	Joseph S. Murphy	Historic American Building Survey Report for Stilwell Hall, Fort Ord, California	U.S. Army Corps of Engineers
S-048462d		1992	Virge Jenkins, Patrick Nowlan, Dan Lapp, Sam Hunter, Don Uzarski, Carla Spradlin, and Keith Landreth	HABS Level IV Documentation Reports and Photos, Ford Ord, CA	U.S. Army Construction Engineering Research Laboratory
S-048462e		1992	Charles Wittleder, Samuel Hunter, and Don Uzarski	Condition Assessment of Fort Ord, Part 1, Stilwell Hall	U.S. Army Construction Engineering Research Laboratory
S-048462f		1992	Elizabeth Rutherford, Samuel Hunter, Charles Wittleder, and Don Uzarski	Condition Assessment of Fort Ord, Part 2, East Garrison	U.S. Army Construction Engineering Research Laboratory
S-048610		2016	Gary S. Breschini	Preliminary Archaeological Assessment of the Gawain Family Theatre at York School, a Portion of Assessor's Parcel 173-071-008	Archaeological Consulting
S-048629		2016	Gary S. Breschini	Preliminary Archaeological Assessment of Portions of Assessor's Parcel 101-171-006 for the Del Monte Golf Course Irrigation Lake, Monterey, Monterey County, California	Archaeological Consulting
S-048629a	Submitter - AC Project 5171B; Voided - S-48584	2016	Gary S. Breschini and Jamse C. Perry	Phase 2 Historic Assessment of the Del Monte Golf Course, Near Monterey, Monterey County, California	Archaeological Consulting
S-048637		2016	Gary S. Breschini	Preliminary Archaeological Assessment of Assessor's Parcel 101-231-001, Monterey, Monterey County, California	Archaeological Consulting

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S-048758	Agency Nbr - CVL03418; OTIS Report Number - FCC_2016_0930_003	2016	Carolyn Losee	Cultural Resources Investigation for AT&T CVL03418 "Hwy 1 - Munras" 200 Glenwood Circle, Monterey City & County, CA 93940 (letter report)	Archaeological Resources Technology
S-048758a		2016	Julianne Polanco	CVL03418 "Hwy 1-Munras" 200 Glenwood Circle, Monterey County, Collocation	Office of Historic Preservation
S-048863		2017	Susan Morley	Preliminary Cultural Resources Reconnaissance for Assessor's Parcel Number (APN) 001-732-009, City of Monterey, California	
S-049152		2017	Susan Morley	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number APN 101-211-026 in an unincorporated area of Rancho Aguajito, Monterey County, California	
S-049322	OTIS Report Number - NOAA_2017_0403_001; Submitter - D205335	2017	Heidi Koenig	Cultural Resources Survey Report, Monterey Peninsula Water Supply Project, Monterey County	Environmental Science Associates
S-049322a		2017	Paul Michel and Julianne Polanco	NOAA_2017_0403_001, Section 106 Consultation for the Monterey Peninsula Water Supply Project, Monterey County, CA	National Oceanic and Atmospheric Administration, Office of Historic Preservation
S-049345	OHP PRN - HUD_2016_0107_001	2013	Kent L. Seavey	Phase II Historic Assessment, proposed repair and rehabilitation of a Craftsman Bungalow Style residence (letter report)	
S-049345a		2015	Kent L. Seavey	Review of the proposed repair/replacement of the front staircase at 697 Cypress Street (APN #001-147-005) (letter report)	
S-049345b		2016	Christy Hopper and Julianne Polanco	Rehabilitation at 697 Cypress Street, Monterey	City of Monterey, California Office of Historic Preservation
S-050199	OTIS Report Number - USN_2017_0127_001	2017	Victoria Taber	Renovation of Buildings 275, 277, and 279, Hotel Del Monte Historic District, Monterey, California (letter report)	Department of the Navy, Naval Support Activity Monterey

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S-050199a		2017	Julianne Polanco	USN_2017_0127_001, Renovation of Buildings 275, 277, and 279, Hotel Del Monte Historic District, Monterey, California (letter report)	Office of Historic Preservation
S-050207	OTIS Report Number - USA_2017_0106_001		Jay Rehor	Memorandum on an Inadvertent Discovery during Implementation of California American Water's (CalAm) Monterey Pipeline project on U.S. Army Garrison, Presidio of Monterey (Presidio) lands in Monterey, California (letter report)	AECOM
S-050207a		2017	Julianne Polanco	USA_2017_0106_001 Inadvertent Discovery, California American Water Undertaking on the Presidio of Monterey, Monterey, California	Office of Historic Preservation
S-050208	OTIS Report Number - USN_2016_0617_001	2016	Victoria Taber and Julianne Polanco	Naval Support Activity Monterey, Herrmann Hall (Building 220), Navy Gateway Inns & Suites (NGIS), 2nd & 3rd Floor Renovation: Rehabilitation Design Methodology	JRP Historical Consulting, LLC
S-050208a		2016	Victoria Taber and Julianne Polanco	USN_2016_0617_001, 2nd Round of Consultation, Herrmann Hall Interior Rehabilitation, Naval Support Activity Monterey, Monterey, California	Department of the Navy; Office of Historic Preservation
S-050208b		2017	Victoria Taber and Julianne Polanco	Emergency Repairs, Building 220, Herrmann Hall, Monterey, California	Department of the Navy; California Office of Historic Preservation
S-050403		2017	Stella D'Oro	Archaeological Monitoring Report for the FY11 Barracks Tree Mitigation Project, Presidio of Monterey, California (letter report)	Albion Environmental, Inc.
S-050816	Submitter - CWVA# 3145-01	2017	Elena Reese, Chris Peske, Hannah Ballard, and John Holson	Emergency Archaeological Monitoring, Testing, and National Register Evaluation of CA-MNT-930H and -932, Presidio of Monterey, Monterey County, California (CWVA# 3145-01 )	Pacific Legacy Inc
S-050816a		2016	Scott Byram	Ground-Penetrating Radar Survey of Monterey Presidio Site MNT930/H	
S-050816b		2016	Nicholas Tripcevich	Monterey Presidio (MNT-930/H) Gradiometer Magnetometer Survey Report (Revised)	

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S-050817	OTIS Report Number - USA_2017_0303_001	2017	Ryan Brady	Cultural Resource Section 106 Review for the Presidio Sewer Manhole Project (Manholes PC03-035 and -045 on Sewer Lines TV-103 and TV-104), City of Monterey, Monterey County, California (letter report)	Dudek
S-050817a		2017	Julianne Polanco and James M. Willison	USA_2017_0303_001, City of Monterey's Sewer Manhole Project at the U. S. Army Garrison, Presidio of Monterey, Monterey County, California	Office of Historic Preservation: U.S. Army, Presidio of Monterey
S-050867		2017	Laura Prishmont Quimby	2017 Annual Report, Presidio of Monterey, California	Presidio of Monterey
S-050867a				VOIDED ADDITIONAL CITATION - outside of the NWIC service area.	
S-050867b				VOIDED ADDITIONAL CITATION - see S-51393a	
S-050867c				VOIDED ADDITIONAL CITATION - see S-50207	
S-050867d				VOIDED ADDITIONAL CITATION - duplicate of S-50816	
S-050867e				VOIDED ADDITIONAL CITATION - duplicate of S-50816a	
S-050867f				VOIDED ADDITIONAL CITATION - duplicate of S-50816b	
S-050867g				VOIDED ADDITIONAL CITATION - see S-50817a	
S-050867h				VOIDED ADDITIONAL CITATION - duplicate of S-50817	
S-050867i				VOIDED ADDITIONAL CITATION - see S-51394a	
S-050867j		2017		Lower Presidio Historic Park. Annual Report to the U.S. Army, Lease No. DACCA05-1-96-554	
S-050925	OTIS Report Number - USN_2018_0404_001	2018	Victoria Taber	Herman Hall Fire Alarm Systems Upgrades (letter report)	Department of the Navy, Naval Support Activity Monterey

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-050925a		2017	Julianne Polanco	USN_2018_0404_001, Herrmann Hall Fire Alarm Systems Upgrade, Building 220, Naval Support Activity Monterey, Monterey, California	Office of Historic Preservation
S-050970		2017	John Schlagheck and Fallin Steffen	MidPen Housing Van Buren Street Project, Archaeological Archival Research, Monitoring, and Subsurface Testing, City of Monterey, Monterey County, California	Holman & Associates
S-050988	Caltrans - 43-SAC-0: Caltrans - BHL 521-J (039); OTIS Report Number - FHWA_2013_0823_03	2015	Helen Blackmore, Lauren Clementino, Andy Hope, Noah M. Stewart, and Janice Calpo	Historical Resources Evaluation Report, Caltrans Statewide Historic Bridge Inventory: 2015 Update, 1965-1974	California Department of Transportation
S-050988a		2016	Kelly J. Hobbs and Julianne Polanco	Update of Caltrans Historic Bridge Inventory Covering Bridge Built Between 1965-1974 ( 43-SAC-O ) ( May 5, 2016 letter report )	California Department of Transportation; Office of Historic Preservation
S-050988b		2016	Natalie Lindquist and Kelly Hobbs	Historic Bridge Inventory Update (FHWA_2013_0823_003)(43-SAC-O)	Office of Historic Preservation; California Department of Transportation
S-050988c		2014	Anmarie Medin and Carol Roland-Nawi	Supplemental Proposal to extend the Update of Caltrans Historic Bridge Inventory covering 1965-1969 bridges to also include 1970-1974 bridges (43-SAC-O) (letter report)	California Department of Transportation; Office of Historic Preservation
S-050988d		2014	Boris Deunert	Determination of Eligibility and Notification of No Historic Properties Affected for the Fair Oaks Ave. Overhead Bridge Rehab Project, Santa Clara County (BHL 521-J (039)) (Fair Oaks Ave. Overhead Bridge Rehab)	California Department of Transportation, Office of Historic Preservation
S-050988e		2013	Anmarie Medin and Carol Roland-Nawi	Proposal for Updating the Caltrans Historic Bridge Inventory (43-SAC-O)	California Department of Transportation, Office of Historic Preservation
S-051393		2016	Melissa Montag	National Register of Historic Places Recordation and Evaluation of Buildings 620 and 624 at the U.S. Army Garrison, Presidio of Monterey, Monterey, California	U.S. Army Corps of Engineers
S-051393a		2017	Julianne Polanco	Section 110 Evaluation of Buildings 620 and 624 at the United States Army Garrison, Presidio of Monterey	Office of Historic Preservation



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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-051394	OTIS Report Number - USA_2017_0418_001	2017	James M. Willison	Anti-Terrorism Force Protection Requirements for the Private Bolio Access Control Point, at the United States Army Garrison, Presidio of Monterey, Monterey County, California (letter report)	U.S. Department of the Army, Presidio of Monterey
S-051394a		2017	Julianne Polanco	USA_2017_0418_001, Anti-Terrorism Force Protection Requirements for the Private Bolio Access Control Point, United States Army Garrison, Presidio of Monterey, Monterey County, California	Office of Historic Preservation
S-051511	OHP PRN - FCC_2016_0321_001	2016	Carrie D. Wills and Kathleen A. Crawford	Collocation ("CO") Submission Packet, FCC Form 621, SF05750A (CAL-AM Water Tank)	Environmental Assessment Specialists, Inc.
S-051511a		2016	Cher L Peterson, Carrie D. Wills, and Kathleen A. Crawford	Cultural Resources Records Search Results for T-Mobile West, LLC Candidate SF05750A (CAL-AM Water Tank) 620 Devisadero Street, Monterey, Monterey County, California (letter report)	Environmental Assessment Specialists, Inc.
S-051511b		2016	Carrie D. Wills and Kathleen A. Crawford	Direct APE Historic Architectural Assessment for T-Mobile West, LLC, Candidate SF05750A (CAL-AM Water Tank) 620 Devisadero Street, Monterey, Monterey County, California (letter report)	Environmental Assessment Specialists, Inc.
S-051511c		2016	Julianne Polanco	FCC_2016_0321_001, SF05750A (CAL-AM Water Tank) 620 Devisadero Street, Monterey, Collocation	California Office of Historic Preservation
S-051931	Submitter - Rincon Consultants Project No. 17-04515	2018	D. Merrick and H. Haas	Monterey Storm Drainage System Maintenance Project Cultural Resources Assessment, Monterey County, California	Rincon Consultants, Inc.
S-051951		2016	Cher L. Peterson, Carrie D. Wills, and Kathleen A. Crawford	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate SF05813A (Marriott Hotel), 350 Calle Principal, Monterey, Monterey County, California	Environmental Assessment Specialists, Inc.
S-052016	OTIS Report Number - FCC_2016_0701_003	2016	Cher L. Peterson, Carrie D. Wills, and Kathleen Crawford	Cultural Resource Records Search and Site Visit Results for Cellico Partnership and their Controlled Affiliates doing business as Verizon Wireless Candidate 'Monterey Fairgrounds SC1', 2000 Fairground Road, Monterey, Monterey County, California (letter report)	HELIX Environmental Planning, Inc.

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-052069		2016	Cher L. Peterson and Kathleen Crawford	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate SF05811A (Highways 1 & 68 - Chomp), 23625 Holman Hwy, Monterey, Monterey County, California (letter report)	Environmental Assessment Specialists, Inc.
S-052122		2018	Susan Morley	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number APN 101-091-026 in an unincorporated area of Deer Flats, City of Monterey, Monterey County, California	
S-052255		2018	Brian Matuk	Historic Resource Evaluation For The Property Located At 1225 David Avenue, Monterey, Monterey County, California	Evans & De Shazo, Inc
S-052276		2018	Leroy Laurie, Heather Gibson, and Steven Treffers	Cultural Resources Survey Report for the Monterey Regional Airport Proposed Infield and Taxiway Improvements Project, Monterey County, California	SWCA Environmental Consultants
S-052276a	Submitter - SWCA Project No. 33371; Submitter - SWCA Report No. 16-35	2018	Julianne Polanco and Douglas R. Pomeroy	FAA_2018_0222_001, Monterey Regional Airport Proposed Infield and Taxiway Improvements Project, 200 Fred Kane Drive, Monterey County, California	Federal Aviation Administration, Office of Historic Preservation
S-052408	OTIS Report Number - FCC_2016_0729_003	2016	Carolyn Losee	Cultural Resources Investigation for AT&T Mobility CCL02080 "Worthy - Baumann" 2539 Grant Avenue, San Leandro, Alameda County, California 94579 (Letter Report)	Archaeological Resources Technology
S-052408a		2016	Julianne Polanco	FCC_2016_0729_003, Worthy and Baumann CCL02080, 2539 Grant Avenue, San Leandro, Collocation	Office of Historic Preservation
S-052452	Agency Nbr - 3125-01 (Task 1)	2016	Lisa Holm	3125-01 (Task 1) City of Monterey Waterfront Parking Project, Monterey County, California (letter report)	Pacific Legacy
S-052458	Agency Nbr - 3125-01 (Task 3)	2016	Lisa Holm	3125-01 (Task 3) Bolio Gate Paving Project, Presidio of Monterey, Monterey County, Monterey, California (letter report)	Pacific Legacy, Inc.
S-052459	Agency Nbr - 3125-01 (Task 4)	2016	Lisa Holm	3125-01 (Task 4) City of Monterey Montecito Park Project, Monterey County, California (letter report)	Pacific Legacy, Inc.

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-052461	Agency Nbr - 3125-06	2017	Lisa Holm	3125-06 City of Monterey Van Buren Electric Line Project, Monterey County, California (letter report)	Pacific Legacy, Inc.
S-052462	Agency Nbr - 3125-07	2017	Lisa Holm	3125-07 Boat Dry Storage Yard Project, Monterey County, California (letter report)	Pacific Legacy, Inc.
S-052463	Agency Nbr - 3152-08 (Task 8)	2017	Mary M. O'Neill	3152-08 (Task 8) Monterey Presidio Sinkhole Project, Presidio of Monterey, Monterey County, Monterey, California (letter report)	Pacific Legacy, Inc.
S-052464	Agency Nbr - 3152-11 (Task 11)	2018	Christopher Peske	3152-11 (Task 11) Pine Street Storm Drain Project, Monterey County, California (letter report)	Pacific Legacy, Inc.
S-052465	Agency Nbr - 3125-12; Submitter - SWCA Project No. 37738.08	2018	Elena Reese	3125-12 Franklin Street LED Light Installation Project, City of Monterey, Monterey County, California (letter report)	Pacific Legacy, Inc.
S-052465a		2017	Leroy Laurie	Archaeological Constraints for the Franklin Street LED Light Installation Project, City of Monterey, Monterey County, CA/ SWCA Project No. 37738.08 (letter report)	SWCA Environmental Consultants
S-052466	Agency Nbr - 3152-13	2018	Mary M. O'Neill	Archaeological Survey Results for the CR7 Parking Lot Islands and ADA Upgrades Project (the Project), City of Monterey	Pacific Legacy, Inc.
S-052466a		2019	Elena Reese	3152-13 Archaeological Monitoring for the CR7 Parking Lot Project, City of Monterey, Monterey County, California (letter report)	Pacific Legacy, Inc.
S-052470		2018	Lisa Holm	3152-15 City of Monterey Hoffman and Cannery Row Improvement Project, Monterey County, California (letter report)	Pacific Legacy, Inc.
S-052472	Agency Nbr - PL#3512-16	2018	Lisa Holm	Pacific Street Honor Garden Project, City of Monterey, Monterey County, CA (PL#3512-16)	Pacific Legacy, Inc.
S-052473	Agency Nbr - 3152-17 (Task 17)	2018	Elena Reese	3152-17 (Task 17) Presidio of Monterey Pavement Rehabilitation Project, Presidio of Monterey, Monterey County, California (letter report)	Pacific Legacy, Inc.
S-052474	Agency Nbr - 3152-18	2018	Elena Reese	3152-18 Army Street Sinkhole Project, Presidio of Monterey, Monterey County, California	Pacific Legacy, Inc.

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-052489	OTIS Report Number - FCC_2018_0726_006	2018	Amy Leuchtmann	Phase I Background Investigation for the Richmond JP Lot Tower, Contra Costa County, California	HDR
S-052489a	Submitter - TCNS 173884	2018	James Parker	FCC Wireless Telecommunications Bureau Collocation ("CO") Submission Packet, BNSF Richmond JP Lot Tower, 37 940564, - 122.370461, Contra Costa County, New Tower	HDR Submission Packet, FCC Form 621
S-052489b		2018	Julianne Polanco	FCC_2018_0726_006, BNSF Richmond JP Lot Tower, 37.940564, -122.370461, Contra Costa County, New Tower	Office of Historic Preservation
S-052539	OTIS Report Number - COE_2018_0409_00 2; Submitter - Corps File Number SPN- 2017_00329S	2018	Lisa Holm	City of Monterey Detention Basins Project, Monterey County, California (3120-01) (letter report)	Pacific Legacy, Inc
S-052539a		2018	Julianne Polanco and Rick M. Bottoms	COE_2018_0409_002, Section 106 Consultation for the proposed maintenance activities for six detention basins in the City of Monterey, Monterey County, California: Concurrence of Finding of No Adverse Effect (Corps File Number SPN-2017_00329S)	Office of Historic Preservation, U.S. Army Corps of Engineers
S-052560	OTIS Report Number - USA_2018_0703_001	2018	James M. Willison	Install Emergency Standby Generator at the Private Bolio Access Control Point, United States Army Garrison, Presidio of Monterey, Monterey County, California (letter report)	United States Army, Presidio of Monterey
S-052560a		2018	Julianne Polanco	[USA_2018_0703_001] Install Emergency Standby Generator at Private Bolio Access Control Point, United States Army Garrison, Presidio of Monterey, Monterey County, California	California Office of Historic Preservation
S-052592	OHP PRN - USA11207A	2012	James Willison	Consultation for Replacement of failed roof component on Building 228, Presidio of Monterey, Monterey County, CA (letter report)	U.S. Department of the Army

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-052592a		2012	Milford Wayne Donaldson	USA11207A, Section 106 Consultation for Replacement of failed roof component on Building 228, Presidio of Monterey, Monterey County, CA	Office of Historic Preservation
S-052593	OHP PRN - USA101112A	2011	James M. Willison	Consultation for Interior Remodel Building 219, Presidio of Monterey, Monterey County, CA (letter report)	U.S. Department of the Army
S-052593a		2011	Milford Wayne Donaldson	USA 101112A, Section 106 Consultation for Interior Remodel Building 219, Presidio of Monterey, Monterey County, CA	Office of Historic Preservation
S-052595	Submitter - HABS No. CA-2666	1996	Cindy L. Baker	Historic American Building Survey, Presidio of Monterey, Soldier Field, HABS No. CA-2666	Par Environmental Services, LLC
S-052601	Agency Nbr - Lease No. DACCA05-1-96-554	2012		Annual Report for the Programmatic Agreement Among the United States Army, the Advisory Council on Historic Preservation and the California State Historic Preservation Officer	Department of the Army
S-052601a		2012		Lower Presidio Historic Park, Annual Report to the U.S. Army, Lease No. DACCA05-1-96-554	
S-052659	OTIS Report Number - USN_2017_0616_001	2017	Victoria Taber	Exterior Repair of Buildings 232, 233, 234, 235 (letter report)	U.S. Department of the Navy, Naval Support Activity Monterey
S-052659a		2017	Julianne Polanco	Exterior Repairs, Buildings 232, 233, 234, and 235, NPS Engineering School Historic District, Naval Support Activity Monterey, Monterey, California	California Office of Historic Preservation
S-052665	OTIS Report Number - USA_2018_1127_001 : Submitter - PG&E Work Order 31256214	2018	Mike Taggart	Pacific Gas and Electric Gas Distribution Infrastructure within US Army Garrison, Presidio of Monterey (PG&E Work Order 21356214) [letter report]	Pacific Gas and Electric Company
S-052665a		2018	Michella Rossi	Cultural Resources Constraints Report, OCW G 50A Presidio of Monterey, Order Number: 31256214	Cardno Cultural Resources

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-052665b		2018	Julianne Polanco and Laura Prishmont Quimby	USA_2018_1127_001, Pacific Gas and Electric Company Gas Distribution Infrastructure Improvements within the U.S. Army Garrison, Presidio of Monterey, Monterey County	Office of Historic Preservation, United States Army Garrison, Presidio of Monterey
S-053052		2018	Heidi Koenig	Cultural Resources Survey and Assessment, Monterey Bay Opportunistic Beach Nourishment Program	ESA Cultural Resources Group
S-053231		2019	Susan Morley	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number APN 101-111-002 in an unincorporated area of Deer Flats, City of Monterey, Monterey County, California	
S-053265	Submitter - PLN180501	2019	Susan Morley	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number APN 259-101-078 in an unincorporated area of Monterey County, California PLN180501	
S-053313	Other - CASPR No. 3701017618; OTIS Report Number - FCC_2019_0301_007	2019	Cher L. Peterson, Carrie D. Willis, Katherine D. Thomas, and Kathleen A. Crawford	Cultural Resource Record Search and Site Visit Results for AT&T Mobility, LLC Candidate CCL03766_CNUJ3766 (Cannery Row), 886 Cannery Row, Monterey, Monterey County, California, CASPR No. 3701017618 (letter report)	Environmental Assessment Specialists, Inc.
S-053313a		2019	Carrie D. Willis	Collocation ("CO") Submission Packet, FCC Form 621, CCL03766_CNUJ3766 (Cannery Row), 886 Cannery Row, Monterey, CA 93940	Environmental Assessment Specialists, Inc.
S-053313b		2019	Julianne Polanco	FCC_2019_0301_007, CCL03766_CNUJ3766 (Cannery Row) 886 Cannery Row, Monterey, Collocation	Office of Historic Preservation
S-053341	Other - FCC_2017_1023_004 ; Submitter - EBI Project Number: 6117000669	2017	Elizabeth Wilk	Archaeological Assessment for Prior Disturbance Monterey Youth Center-A/5032449, 490 Camino El Estero, Monterey, Monterey County, California, 93940, EBI Project Number: 6117000669, TCNS Number: 151845	EBI Consulting

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-053341a		2017	Melanie Ihle, Meghan Gross, and Elizabeth Wilk	Submission Packet, FCC Form 621, for proposed Collocation Project, 490 Camino El Estero, Monterey, Monterey County, California 93940, Monterey Youth Center - A/ FUZE 5032449, EBI Project Number: 6117000669	EBI Consulting
S-053341b		2017	Julianne Polanco	FCC 2017 1023 004, Monterey Youth Center/Fuze 5032, 490 Camino El Estero, Monterey, Monterey County, Collocation	Office of Historic Preservation
S-053756	Submitter - Dudek 12629; Submitter - Environmental Concern Permit: 0518 6BB 0658	2019	Ryan Brady, Sarah Brewer, William Burns, Adam Giacinto, Micah Hale, and Fallin Steffen	Cultural Resources Inventory Report for the Spectrum Charter SR-68 Project, P.M. 5.549 to P.M. 19.174	Dudek
S-053756a		2020	Ryan T. Brady	Archaeological Monitoring Results for the Spectrum Charter SR 68 Broadband Project, Monterey County, California (REF. Caltrans Encroachment Permit #0518 6BB 0658) (letter report)	Dudek
S-053767		2018	Ryan Brady	Cultural Resource Section 106 Review for the Install Sidewalk Project on Private Bolio Road, Presidio of Monterey, Monterey, California (letter report)	Dudek
S-054154		2020	Susan Morley	Preliminary Cultural Resources Reconnaissance, Assessor's Parcel Number (APN) 001-016-006, City of Monterey, California	
S-054155		2020	Susan Morley	Preliminary Cultural Resources Reconnaissance of Assessor's Parcel Number APN 259-191-005 in an unincorporated area of Monterey County, California	
S-054466	Submitter - 12090.01	2020	John P. Schlagheck	Archaeological assessment for storm drain repair at the intersection of Hawthorne Street and Irving Avenue, City of Monterey, California (letter report)	Dudek
S-054466a		2021	Ryan T. Brady	Archaeological Monitoring Report for Hawthorne-Irving Drainage Improvements, City of Monterey, California (letter report)	Dudek

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-054749		2020	Susan Morley	Native American Burial Recovery at 701 Wave Street in the City of Monterey, County of Monterey, California	
S-055591		2020	Patricia Paramoure	Archaeological Monitoring for the Presidio of Monterey (POM) Soldier Field Emergency Water Main Repair Project (letter report)	Patricia Paramoure Archaeological Consulting
S-055685		2021	Patricia Paramoure	Archaeological Monitoring Report, Phase 1A Of The Implementation Of The 2015 Master Plan Middlebury Institute Of International Studies, 460 Pierce Street, Monterey, California	Patricia Paramoure Archaeological Consulting
S-055754	Submitter - SWCA Project No. 37738.02	2017	Leroy Laurie	Archaeological Constraints Report for 10 Intersection Improvements Projects: 35C1555, 35C1555, City of Monterey, Monterey County, California	SWCA Environmental Consultants
S-055756	Submitter - SWCA Project No. 37738.04	2017	Leroy Laurie	Archaeological Constraints Report for 19 Intersection Improvement Projects: 35C1555, 35C1553C, and 35C1428, City of Monterey, Monterey County, California	SWCA Environmental Consultants
S-055757	Submitter - SWCA Project No. 37738.10	2017		Archaeological Monitoring Report For The Citywide ADA Ramps And Street Reconstruction Phase 4 – Pacific Street, Lighthouse Avenue, And Artillery Street City Of Monterey, Monterey County, California	SWCA Environmental Consultants
S-055758	Submitter - SWCA Project No. 37738.02	2016	Leroy Laurie	Review of Existing Archaeological Conditions for Locations 1 and 2 Citywide ADA Ramps: 35C1553C / SWCA Project No. 37738.02 (letter report)	SWCA Environmental Consultants
S-055759	Submitter - SWCA Project No. 37738.02	2017	Leroy Laurie	Archaeological Constraints for Six Citywide ADA Ramp Intersection Improvements: 35C1555 / SWCA Project No. 37738.02	SWCA Environmental Consultants
S-055760	Submitter - SWCA Project No. 37738.12	2018	Leroy Laurie	Archaeological Constraints for the Franklin Street/Washington Street Storm Drain and Intersection Improvements Project, Monterey, Monterey County, California, SWCA Project No. 37738.12 (letter report)	SWCA Environmental Consultants
S-056158		2022	Susan Morley and Brenna Wheelis	Phase I Preliminary Archaeological Assessment in Support of the 28D Syvan Road, Project, APN 101-131-028-000, Monterey, Monterey County, California	Achasta Archaeological Services



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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-056201		2021	Ryan T Brady and John P. Schlagheck	RE : Archaeological Monitoring Report for Hawthorne-Irving Drainage Improvements, City of Monterey, California (Letter report)	Dudek
S-056318	Submitter - Project No. 22-0020	2022	Susan Morley and Brenna Wheelis	Archaeological Monitoring Report in Support of the San Carlos Gymnasium Project 552 Webster Street, Monterey, Monterey County, California (APN: 001-728-002-000) (MBP-21-0972)	Achasta Archaeological Services
S-056495	Submitter - 12090.06	2022	John P. Schlagheck	Archaeological Monitoring Results for Citywide Curb Ramps Phase 5 Project, Monterey, California (letter report)	Dudek
S-056497	Submitter - 12090.12	2022	John Schlagheck, Angela Moniz, and Dustin Ponko	Archaeological Monitoring Report for the 2018 Presidio of Monterey Pavement Repair Project, City of Monterey, California (letter report)	Dudek
S-056498	Submitter - 12090.13	2022	John P. Schlagheck	Final Report: Archaeological monitoring for City of Monterey English Avenue and Spot Sewer Repair Projects, City of Monterey, California (letter report)	Dudek
S-056499	Submitter - 12090.14	2022	John P. Schlagheck	Phase I Archaeological Assessment for crown removal and other improvements to Van Buren Street and Monroe Street, City of Monterey, California (letter report)	Dudek
S-056500	Submitter - 12090.16	2022	John P. Schlagheck	Archaeological Monitoring Results for Citywide Road Repair Phase 3 Project, Monterey, California (letter report)	Dudek
S-056501	Submitter - 12090.17	2022	John Schlagheck, Angela Moniz, Julie Royer, and Fallin Steffen	Phase II Archaeological Testing near Presidio of Monterey Building 279, Presidio of Monterey, City of Monterey, California	Dudek
S-056502	Submitter - 12090.18	2022	John Schlagheck	Archaeological Monitoring Report for the City of Monterey Breakwater Parking Lot Utility Project, City of Monterey, California (letter report)	Dudek
S-056504	Submitter - 12090.21	2022	John P. Schlagheck	Archaeological Monitoring Results for Road Rehabilitation Phase 3 Project (Van Buren Street Crown Removal) Project, City of Monterey, Monterey County, California (letter report)	Dudek

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation
S-056505	Submitter - 12090.26	2022	John P. Schlagheck and Angela Moniz	Phase I Archaeological Assessment for Pearl and Figueroa Storm Drain and Three Tree Wells, City of Monterey, Monterey County, California (letter report)	Dudek

## Resource List

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-000088	CA-MNT-001799H	Resource Name - 68-2H	Site	Historic	AH04	1993 (T. Wake, W. McCormack, S. Copeland, D. Greene, C. Rice, W. & L. Shapiro, BioSystems Analysis, Inc.); 2013 (J. Berg, FWARG)
P-27-000090	CA-MNT-001801H	Resource Name - 68-3H	Site	Historic	AH11; AH16	1993 (T. Wake, W. McCormack, S. Copeland, D. Greene, C. Rice, W. & L. Shapiro, BioSystems Analysis, Inc)
P-27-000151	CA-MNT-000015/H	Resource Name - Sloat Monument; OHP PRN - DOE 27-86-0001-0149; Voided - E-198-MNT; Other - Building 152; OHP Property Number - 019579; OTIS Resource Number - 422319	Object, Site	Prehistoric, Historic	AP04; AP05; AP15; HP26; HP34	1948 (A.R. Pilling, Jack Kenna, University of California, Berkeley); 1978 (R.L. Edwards, Cabrillo College); 1985 [none], Jackson Research Projects); 2008 (K. Jones, F. Arellano, K. Chao, Pacific Legacy, Inc.)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-000236	CA-MNT-000101/H	Resource Name - Kroeber A; Other - Hill 7; Other - Fisher1; Other - Gifford 1; National Register - 71000167; Other - El Castillo; Other - Monterey Monuments	Site, Element of district	Prehistoric, Historic	AH04; AP02; AP04; AP09; AP15	1949 (A. R. Pilling, University of California, Berkeley)
P-27-000237	CA-MNT-000102	Resource Name - Fisher #2; Other - Possibly Golomshtok #4	Site	Prehistoric	AP01	1935 (Edna Fisher, A.R. Pilling, [none])

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-000238	CA-MNT-000103/H	Resource Name - Fisher #3	Site	Prehistoric, Historic	AH04; AP05; AP09; AP15	1949 (A. R. Pilling, [none]); 1981 (Karen Loeffler, Noli Wilfong, Archaeological Consulting)
P-27-000243	CA-MNT-000108	Resource Name - Shrista; Other - Monterey Custom's House	Site, Element of district	Prehistoric, Protohistoric	AP04; AP07; AP09; AP15	1946 (B.W., [none]); 1946 (R.K.W., B.W., [none]); 1949 (A.R. Pilling, University of California, Berkeley); 1950 (Arnold Pilling, [none]); 1951 (Broadbent, [none]); 2009 (Kari Jones, Pacific Legacy); 2016 (T. Garlighthouse, Albion Environmental, Inc.); 2018 (Heidi Koenig, ESA Cultural Resources Group)
P-27-000297	CA-MNT-000190H	Resource Name - De Soto Adobe	Building, Site	Historic	AH04; HP02; HP44	1949 (A. R. Pilling, UC, Dept of Anthropology)
P-27-000305	CA-MNT-000198H	Resource Name - Historic Adobe Site - destroyed	Site	Historic	AH04; AH16	1949 (A.R. Pilling, UC, Department of Anthropology)
P-27-000306	CA-MNT-000199H	Resource Name - Castro's Headquarters	Site	Historic	AH04; HP02; HP46	1949 (A.R. Pilling, E.R. Lyon, UC, Dept of Anthropology)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-000376	CA-MNT-000271H	Other - Monterey Presidio Chapel; Other - Monterey Mission; Resource Name - Spanish Royal Presidio	Structure, Site	Historic	AH02; AH04; AH11; AH15; AH16; HP16; HP34; HP44	1950 (Pilling, Heizer, Uof CA); 1979 (E. Breck Parkman, UC Davis); 1991 (Rob Edwards, Chair Simpson-Smith, Beth Bagwell, Lucy Carcerano, Joannie Epstein, Wanda Gibson, et al, Cabrillo College); 1992 (Rob Edwards, Chair Simpson-Smith, Beth Bagwell, Lucy Carcerano, Joannie Epstein, Wanda Gibson, et al, Cabrillo College Archaeological Program, Cabrillo College); 1992 (Rob Edwards, Charlotte Simpson-Smith, Cabrillo College); 2016 (Stella D'Oro, Albion Environmental, Inc.)
P-27-000377	CA-MNT-000272H	Resource Name - College Site #1; Other - UCLA MNT-371; Voided - P-27-000407; Voided - P-27-001928; Voided - CA-MNT-000304; Voided - CA-MNT-000371	Site	Prehistoric, Historic	AH04; AP02; AP15	1955 (M.E. Hinshaw, [none]); 1965 (D.S. Miller, Charkoff, [none]); 1965 (D.S. Miller, J.L. Charkoff, N.N. Nakamura, [none])
P-27-000385	CA-MNT-000280	Resource Name - [none]	Site	Prehistoric	AP15	1950 (A.R. Pilling, UCAS); 1950 (A.R. Pilling, UCAS); 2019 (Sarah Brewer, Scott Miller, Dudek)
P-27-000398	CA-MNT-000295H	Resource Name - CA-MNT-295	Site	Historic	AH02; AH04	1953 (Broadbent, Pilling, [none]); 1979 (H.E. Casper, Monterey Peninsula Herald)
P-27-000399	CA-MNT-000296H	Resource Name - Casa Gutierrez	Building, Site	Historic	AH04; HP44	1953 (Broadbent, UCAS)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-000400	CA-MNT-000297H	Resource Name - Stevenson House State Historical Monument; OHP PRN - 3940-0010-0000; OHP PRN - NPS 72000239-0000; OHP PRN - SHL-0352-0000; OHP Property Number - 019466; Other - Gonzales House; Other - Stevenson House; Other - Robert Louis Stevenson House	Building, Site	Historic	AH04; HP02; HP05; HP26; HP30; HP44	1953 (Broadbent, [none]); 1959 (R.L. Perkins, [none]); 1970 (Allen W. Welts, Calif. Dept. of Parks & Recreation); 1977 (Jane Anne Willeman, Monterey Planning Department); 1979 (J. Cooper, Cabrillo College); 1981 (James Arbuckle, [none])
P-27-000401	CA-MNT-000298/H	Resource Name - Serra Cross Site	Site	Prehistoric, Historic	AH02; AP09; AP15; HP02	1948 (Pilling, [none]); 1978 (B. Langer, [none]); 2008 (K. Jones, F. Arellano, Pacific Legacy, Inc.); 2009 (Annette Neal, NWIC); 2018 (Josie Twigg, Albion Environmental, Inc.)
P-27-000467	CA-MNT-000372	Resource Name - College Site #2; Other - UCLA MNT-372	Site	Prehistoric	AP02; AP15	1965 (D.S. Miller, Charkoff, [none]); 1965 (D.S. Miller, J.L. Charkoff, Nakamura, [none])
P-27-000468	CA-MNT-000373/H	Resource Name - College Site #3; Other - UCLA MNT-373	Site	Protohistoric, Historic	AH04; AP02	1965 (N.N. Nakamura, [none])

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-000480	CA-MNT-000386/H	Resource Name - MNT-386	Site	Prehistoric, Historic	AH04; AP02; AP04; AP09; AP15	1973 (Don Howard, [none]); 1981 (Noli Wilfong, Karen Loeffler, Archaeological Consulting)
P-27-000481	CA-MNT-000387	Resource Name - MNT-387	Site	Prehistoric	AP09; AP15	1973 (Don Howard, [none])
P-27-000482	CA-MNT-000388	Resource Name - [none]	Site	Prehistoric	AP15	1973 (Don Howard)
P-27-000483	CA-MNT-000389	Resource Name - [none]	Site	Prehistoric	AP15	1973 (Don Howard)
P-27-000484	CA-MNT-000390	Resource Name - 701 Wave St.	Site	Prehistoric	AP02	1973 (Don Howard)



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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-000485	CA-MNT-000391	Resource Name - Saunders Site	Site	Prehistoric	AP02; AP09; AP15	1973 (Don Howard, [none]); 2018 (L. Holm, Pacific Legacy)
P-27-000775	CA-MNT-000697	Resource Name - [none]	Site	Prehistoric	AP15	([none], [none]); 1977 (M. Fazio, [none])
P-27-000907	CA-MNT-000841	Resource Name - Y	Site	Prehistoric	AP04	1979 (G. Breschini, P. Podozorski, Gavilan Foundation)
P-27-000908	CA-MNT-000842	Resource Name - Z; Other - MNT-842	Site	Prehistoric	AP02; AP04; AP15	1979 (G. Breschini, P. Podzorski, Gavilan Foundation); 1984 (S. Psota, R. Wlberg, J. Miller, M. Clark); 1993 (T. Wake, W. McCormack, S. Copeland, D. Greene, C. Rice, W. & L. Shapiro, Biosystems Analysis Inc.)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-000986	CA-MNT-000929H	Resource Name - CA-MNT-929H	Site, Other	Historic	AH11	1979 (W. E. Roberts, [none]); 2009 (K. Jones, F. Arellano, Pacific Legacy, Inc.)
P-27-000987	CA-MNT-000930H	Resource Name - 14	Site	Historic	AH04	1979 (W. E. Roberts, J.L. Zahntser, Cabrillo College); 2012 (E. Reese, Pacific Legacy); 2016 (C. Peske, E. Reese, M. O'Neill, Pacific Legacy)
P-27-000988	CA-MNT-000931	Resource Name - Presidio 1	Site	Prehistoric	AP15	([none], [none]); 1978 (B. Langer, Environmental Research Archaeologists)
P-27-000989	CA-MNT-000932	Resource Name - PRE-2	Site	Prehistoric	AP15	1979 (J. Ellison, Environmental Research Archaeologists); 2016 (C. Peske, Pacific Legacy)
P-27-000995	CA-MNT-000938H	Resource Name - California's First Theatre; OHP Property Number - 019453; OHP PRN - 3940-0002-0019; OHP PRN - NPS 70000137-0019; OHP PRN - SHL 0136-0000; OHP PRN - S-005500 / E-286 MNT	Building, Element of district	Historic	AH15; HP44	1970 (Allen W. Welts, CA Dept. Parks & Rec); 1977 (Jane Wileman, Monterey Planning Department); 1979 (J. Cooper, [none]); 1979 (Jim Arbuckle, [none])
P-27-000996	CA-MNT-000939H	Resource Name - Josiah Merritt Adobe; OHP Property Number - 019478; OHP PRN - NPS 77000311-000; OHP PRN - 3940-0039-0000; Voided - S-005501; Other - Merritt House	Building, Element of district	Historic	AH15; HP02; HP44	1976 (Kent L. Seavey, Monterey County Department of Parks); 1977 (Kent L. Seavey, Monterey County Department of Parks); 1977 (Jane Anne Wileman, Monterey Planning Department); 1979 (J. Cooper, Cabrillo College)
P-27-001011	CA-MNT-000955	Resource Name - H-1003, H-1036	Site	Prehistoric	AP02; AP09; AP15	1979 (Breschini, Haversat, Archaeological Consulting)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-001025	CA-MNT-000969H	Resource Name - Cooper-Molera Adobe; OHP PRN - 3940-0002-0012; National Register - 70000137-0012; OHP Property Number - 19446; Other - Fed.Fnd.Pr. 629.0-75-HPF-27-01	Building, Site	Historic	AH15; HP44	(G. Laffey, Cabrillo College); 1977 (Elizabeth Nommellini, Monterey Planning Department)
P-27-001031	CA-MNT-000975	Resource Name - 1006	Site	Prehistoric	AP15	1980 (P. Hampson and J. Whitlow, Archaeological Consulting)
P-27-001032	CA-MNT-000976	Resource Name - 1004	Site	Prehistoric	AP15	1980 (Paul Hampson, Jan Whitlow, Archaeological Consulting)
P-27-001033	CA-MNT-000977	Resource Name - 1000	Site	Prehistoric	AP04; AP09	1980 (Paul Hampson, Jan Whitlow, Archaeological Consulting)
P-27-001116	CA-MNT-001060	Resource Name - AC-705-1	Site	Prehistoric	AP02; AP04; AP11; AP15	1980 (Breschini, Haversat. [none]); 1985 (Gary S. Breschini, Archaeological Consulting)
P-27-001299	CA-MNT-001262	Resource Name - AC-558-1; Voided - P-27-001294 / CA-MNT-1257	Site	Prehistoric	AP02; AP04; AP15	1984 (R. Paul Hampson, Noli Wilfong, Margaret Doyle, Archaeological Consulting); 1984 (Hampson, Wilfong, Doyle, Archaeological Consulting); 1991 (T. Wake, W. McCormack, S. Copeland, D. Greene, C. Rice W & L Shapiro, Biosystems Analysis, Inc); 1999 (J. Berg, FWARG); 2003 (KL Crawford, [none]); 2019 (Tyler Friesen, Dudek)
P-27-001302	CA-MNT-001265	Resource Name - "There's another dead cow over there" site	Site	Prehistoric	AP04; AP08	1984 (S. Psota, M.R. Clark, Anthropological Studies Center)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-001395	CA-MNT-001367H	Resource Name - Doud Family Residence	Site	Historic	AH02; AH04; HP44	1988 (Larry Bourdeau, Pacific Museum Consultants)
P-27-001736		Resource Name - Carmel Hill Forest Fire Station; Other - Carmel Fire control Station Combination Barracks; Other - Equipment Garage Carmel Fire Control Station; Other - Office/Apparatus Building Carmel Hill Forest Fire Station; Other - Gas & Oil House Carmel Hill Forest Fire Station; OHP Property Number - 105917; OHP Property Number - 105916; OHP PRN - St.Ag. -3540-0209.0209, 0210; OHP PRN - DOE 27-03-0015-0000; OHP PRN - FCCC0308121	Building	Historic	HP04; HP09; HP44	1994 (Mark Thornton, CDF)
P-27-001752	CA-MNT-001849H	Resource Name - Presidio of Monterey; OTIS Resource Number - 422467; OHP PRN - USA 860830Z; OHP PRN - DOE 27-96-0001-9999; OHP Property Number - 064909 [this prop. # not in BERD 12/2019]; OHP PRN - DOE-27-86-0001-9999; OHP PRN - USA860730Z; OHP Property Number - 019730; Other - Presidio of Monterey District; OHP PRN - 3940-0143-9999	District	Historic	HP34	1985 ([none], Jackson Research Projects); 1989 (Don Napoli, California Office of Historic Preservation)
P-27-001757		Resource Name - [none]; Voided - C-7; Other - AC-705-01	Site	Prehistoric	AP15	1985 (Hampson, Breschini, [none])

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-001830	CA-MNT-001243H	Resource Name - Casa Soberanes; Other - Soberanes Adobe; Other - Estrada Adobe; OHP PRN - SHL-0712-0000; OHP PRN - 3940-0019-0000; OHP Property Number - 019470; Voided - P-27-001758; Voided - C-884; OHP PRN - 65000702	Building, Site	Historic	AH02; AH04; HP44	1977 (Elizabeth Nommellini, Monterey Planning Department); 1979 (Jim Arbuckle, [none]); 1983 (G. S. Breschini, T. Haversat, Archaeological Consulting); 1990 (G. S. Breschini, T. Haversat, Archaeological Consulting); 2008 (Karl Jones, F. Arellano, Pacific Legacy, Inc.)
P-27-001831	CA-MNT-001245/H	Resource Name - AC-520-1	Site, Element of district	Prehistoric, Historic	AH04; AP04	1984 (Gary Breschini, Archaeological Consulting)
P-27-001859	CA-MNT-000662	Resource Name - 1002; Voided - CA-MNT-000974/H; Voided - P-27-001030	Site	Prehistoric	AP15	1976 (William Roop, ARS); 1980 (Jan Whitlow, Paul Hampson, Archaeological Consulting); 1981 (Noli Wilfong, Archaeological Consulting); 2008 (K. Jones, K. Chao, Pacific Legacy, Inc.)
P-27-001877	CA-MNT-001888H	Resource Name - Presidio of Monterey Landfill	Site	Historic	AH04	1997 (T. Jackson, Pacific Legacy)
P-27-001929	CA-MNT-000374	Resource Name - College Site #2(UCLA 372)	Site	Prehistoric	AP15	
P-27-002663		Resource Name - Quock Mui's House	Building	Historic	HP02; HP36	2003 (Kent L. Seavey, [none])
P-27-002664	CA-MNT-002146	Resource Name - AC 3014-1; Other - AC Control No. 106	Site	Prehistoric	AP15	2003 (Anna Runnings, Mary Doane, Archaeological Consulting)
P-27-002769		Resource Name - 699 Larkin Street; Other - Oka Residence; OHP PRN - FHWA 040223A; OHP Property Number - 147760; OHP PRN - DOE 27-04-0006-0000; Other - Map Reference #5	Building	Historic	HP02	2001 (Theresa S. Rogers, JRP Historical Consulting)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-002770		Resource Name - 29 Herrmann Drive; OHP Property Number - 147761; OHP PRN - DOE 27-04-0007-0000; Other - Map Reference #6; OHP PRN - FHWA 040223A	Building	Historic	HP02	2001 (Theresa S. Rogers, JRP Historical Consulting)
P-27-002771		Other - Map Reference #7; Resource Name - 612-614 Larkin Street; OHP Property Number - 147762; OHP PRN - 3940-0218-0000; OHP PRN - DOE 27-04-0008-0000; OHP PRN - FHWA 040223A	Building	Historic	HP02	2001 (Theresa S. Rogers, JRP Historical Consulting Services)
P-27-002772		Other - Map Reference #3; Resource Name - 671 Larkin Street; OHP Property Number - 147759; OHP PRN - 3940-0407-0000; OHP PRN - DOE 27-04-0005-0000; OHP PRN - FHWA 040223A	Building	Historic	HP02	2001 (Theresa S. Rogers, JRP Historical Consulting Services)
P-27-002800		Resource Name - Motor Pool Oil House (Building 164); OHP PRN - 3940-0142-0016; Other - Motor Pool Inflammable Storage (Building 124); OHP Property Number - 019592; OTIS Resource Number - 496154	Building, Element of district	Historic	HP04; HP34	1984 ([none], Jackson Research Projects); 1991 (Michael Corbett, and Woodruff C. Minor, Corbett & Minor)
P-27-002823		Other - St. Mark Coptic Orthodox Church; OHP Property Number - 159546; OHP PRN - FCC061230H; Resource Name - New Monterey Baptist Church/St. Mark Coptic Orthodox Church	Building	Historic	HP16	2005 (Seavey); 2005 (Dana E. Supernowicz, Historic Resource Associates)
P-27-002831		Resource Name - Bridge 44-0041; Other - Scenic Drive Overcrossing	Structure	Historic	HP19	2004 (Andrew Hope, [none])

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-002846		Resource Name - Ave Maria Convalescent Hospital and Convent; OHP Property Number - 156695; OHP PRN - FCC0511151	Building	Historic	HP16; HP41	2005 (Dana E. Supernowicz, Historical Resource Consultants)
P-27-002905		Resource Name - First Baptist Church of Monterey; OHP PRN - FCC 080530B	Building	Historic	HP16	2008 (Dana E. Supernowicz, Historical Resource Associates)
P-27-002911		Resource Name - Monterey Bay Aquarium; Other - Hovden Cannery	Building, Structure	Historic	HP08; HP39	2008 (Dana E. Supernowicz, Historical Resource Associates)
P-27-002923	CA+MNT-002295H	Resource Name - Southern Pacific Railroad; Other - 1999 Map Reference #1; Other - Southern Pacific Coast Line; Other - PL-2148-01; Voided - P-27-002869; Other - S-CO1-3/0; Voided - P-27-002971	Structure, Site	Historic	AH07; HP11	1999 (Stephan Wee, JRP Historical Consulting Services); 2008 (K. Jones, F. Arellano, Pacific Legacy, Inc.); 2010 (M. Millett, J.P. Glover, PAR Environmental Services, Inc.); 2019 (S. Zamudio-Gurrola, M. Pfeiffer, Rincon Consultants, Inc.)
P-27-002940		Resource Name - PL-2148-02; Other - Del Monte Depot	Site	Historic	AH02	2008 (K. Jones, F. Arellano, K. Chao, Pacific Legacy, Inc.)
P-27-002941		Resource Name - PL-2148-03; Other - Abandoned Ranch (Busy 2005)	Building, Structure, Other	Historic	HP04; HP33	2008 (K. Jones, K. Chao, Pacific Legacy, Inc.)
P-27-002946		Resource Name - Cottage No. 8; Other - Quarters M/Building No. 267; Other - Naval Postgraduate School; Other - Hotel Del Monte Guest House	Building, Element of district	Historic	HP02	1994 (Michael R. Corbett, Dames & Moore)
P-27-002947		Other - (OHP Property # 115946); OHP PRN - DOE 27-90-0002-0002; Other - Naval Postgraduate School; Resource Name - Cottage No. 9	Building, Element of district	Historic	HP02	1994 (Michael R. Corbett, Dames & Moore)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-002948		Resource Name - Cottage 1,6,7; Other - Quarters C, D (281); I, J (271); K, L (269); Other - Naval Postgraduate School	Building, Element of district	Historic	HP03	1994 (Michael Corbett, Dames & Moore)
P-27-002965		Resource Name - Monterey SP Passenger Depot; OHP PRN - HUD 050311B	Building	Historic	HP17	1999
P-27-002966		Resource Name - Southern Pacific Freight Depot	Building	Historic	HP17	1999
P-27-002967		Resource Name - DJ Café	Building	Historic	HP06	1999 (Inone], Architectural Resources Group)
P-27-002968		Resource Name - Storage Shed	Building	Historic	HP06	1999
P-27-002969		Resource Name - Monterey Bay Kayaks	Building	Historic	HP06	1999
P-27-002970		Resource Name - Adventures by the Sea	Building	Historic	HP06	1999
P-27-002977		Resource Name - Van Buren St. Residence	Building	Historic	HP02	2009 (Nicholas Gemini, Cal State University-Monterey)
P-27-002978		Resource Name - Retaining Walls; OHP PRN - DOE 27-86-0001- 0150; OHP PRN - USA 860730Z; OHP Property Number - 084605; OTIS Resource Number - 482965	Structure, Element of district	Historic	AH11; HP34; HP35; HP46	1985 (Inone], Jackson Research Project; 1993 (Bjorn Lundegard, Dept. of Army)
P-27-002979		Resource Name - Building 208; Other - Building 132 (historic name); OHP PRN - DOE 27-86-0001- 0001; OHP PRN - USA 860730Z; OTIS Resource Number - 422337	Building, Element of district	Historic	HP13; HP34; HP35	1985 (Inone], Jackson Research Project)



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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-002980		Resource Name - Building 228; Other - Lewis Hall Gym; Other - Building 272, P174; OHP PRN - DOE 27-86-0001-0014; OHP PRN - USA 860730Z; OTIS Resource Number - 422351	Building, Element of district	Historic	HP34; HP35; HP39	1985 ([none], Jackson Research Projects)
P-27-002981		Resource Name - Building 112; OHP PRN - 3940-0142-0011; Other - Building 177; Other - Building 153; OHP PRN - DOE 27-86-0001-0146; OHP PRN - USA 860730Z; OHP Property Number - 019587; OHP Property Number - 101285; OTIS Resource Number - 496163	Building, Element of district	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-002982		Resource Name - Building 450; Other - Building 81 (historic name); OHP PRN - USA 970512A; OHP PRN - DOE 27-86-0001-0085; OHP PRN - USA 860730Z; OHP Property Number - 019721; Other - Cavalry Barracks; OTIS Resource Number - 422458	Building, Element of district	Historic	HP03; HP34	1985 ([none], Jackson Research Projects); 1985 ([none], Jackson Research Projects)
P-27-002983		Resource Name - Building 451; Other - Building 79 (historic name); OHP PRN - USA 970512A; OHP PRN - DOE 27-86-0001-0086; OHP PRN - USA 860730Z; OHP Property Number - 019722; OTIS Resource Number - 422459	Building, Element of district	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-002984		Resource Name - Building 452; Other - Building 77 (historic name); OHP PRN - USA 860730Z; OHP PRN - DOE 27-86-0001-0087; OHP Property Number - 019723; OTIS Resource Number - 422460	Building, Element of district	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-002985		Resource Name - Building 453; Other - Building 75 (historic name); OHP PRN - DOE 27-86-0001-0088; OHP PRN - USA 860730Z; OHP Property Number - 0197224; OTIS Resource Number - 422461	Building, Element of district	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-002986		Resource Name - Structure 251; Other - Structure 133; Other - The Post Flagpole; OHP PRN - DOE 27-86-0001-0015; OHP PRN - USA 860730Z; OHP Property Number - 0196220; OTIS Resource Number - 422357	Structure, Element of district	Historic	HP34; HP39	1985 ([none], Jackson Research Projects)
P-27-002987		Resource Name - Building 263; Other - Building 8 (historic name); OHP PRN - DOE 27-86-0001-0022; OHP PRN - USA 860730Z; OHP Property Number - 0196227; OHP PRN - USA120608A; OHP PRN - USA940331A; Other - DLI; Other - Defense Language Institute; OTIS Resource Number - 422364	Building, Element of district	Historic	HP03; HP34	1985 ([none], Jackson Research Projects); 2016 (James M. Williston, Director, Public Works, Presidio of Monterey)
P-27-002988		Resource Name - Building 267; Other - Buildings 9 and 10 (historic name); OHP PRN - DOE 27-86-0001-0023; OHP PRN - USA860730Z; OHP Property Number - 0196228; OTIS Resource Number - 422365	Building, Element of district	Historic	HP06; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-002989		Resource Name - Building 275; Other - Building 16; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0030; OHP PRN - USA860730Z; OHP Property Number - 019636; Other - Barracks 16; OTIS Resource Number - 422373	Building, Element of district	Historic	HP03; HP34	1985 ([none], Jackson Research Project)
P-27-002990		Resource Name - Officers and Faculty Club, Building 326; Other - Officers Club, Building 105; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0052; OHP PRN - USA 860730Z; OTIS Resource Number - 422404	Building, Element of district	Historic	HP13; HP34	1985 ([none], Jackson Research Projects); 2014 (P. Paramoure, C. Mikulik, Patricia Paramoure Archaeological Consulting)
P-27-002991		Resource Name - Building 332; Other - Building 36; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0053; OHP PRN - USA860730Z; OHP Property Number - 019673; Other - Officers Quarters; OTIS Resource Number - 422410	Building, Element of district	Historic	HP02; HP34	([none], Clark Realty Builders); 1985 ([none], Jackson Research Projects)
P-27-002992		Resource Name - Building 336; Other - Building 33; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0056; OHP PRN - USA86070730Z; OHP Property Number - 019677; Other - Officers Quarters; OTIS Resource Number - 422414	Building, Element of district	Historic	HP02; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-002993		Resource Name - Building 429; Other - Building 73 1/2; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0073; OHP PRN - USA 860730Z; Other - Building #73.5; Other - Officers Quarters; OHP Property Number - 019706; OTIS Resource Number - 422443	Building, Element of district	Historic	HP02; HP34	1985 ([none], Jackson Research Projects)
P-27-002994		Resource Name - Building 430; Other - Building 83; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0074; OHP PRN - USA860730Z; OHP Property Number - 019719; Other - Garage; OTIS Resource Number - 422444	Building, Element of district	Historic	HP02; HP34	1985 ([none], Jackson Research Projects)
P-27-002995		Resource Name - Building 431; Other - Presidio of Monterey; Other - Building 84; OHP PRN - DOE 27-86-0001-0075; OHP PRN - USA860730Z; OHP Property Number - 019708; Other - Building #84; Other - Officers Quarters; OTIS Resource Number - 422445	Building, Element of district	Historic	HP02; HP34	([none], Clark Realty Builders); 1985 ([none], Jackson Research Projects)
P-27-002996		Resource Name - Building 432; Other - Building 74; Other - P84-G; OHP PRN - DOE 27-86-0001-0076; OHP PRN - USA860730Z; OHP Property Number - 019709; Other - Garage; OTIS Resource Number - 422446	Structure, Element of district	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)

# Resource List

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-002997		Resource Name - Building 433; Other - Building 85; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0077; OHP PRN - USA860730Z; OHP Property Number - 019710; OTIS Resource Number - 422447	Building, Element of district	Historic	HP02; HP34	1985 (Inone), Jackson Research Projects)
P-27-002998		Resource Name - Building 434; Other - Building 86; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0081; OHP PRN - USA860730Z; OHP Property Number - 019715; OTIS Resource Number - 422448	Building, Element of district	Historic	HP02; HP34	1985 (Inone), Jackson Research Projects)
P-27-002999		Resource Name - Building 435; Other - Building T183; Other - P86-G; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0079; OHP PRN - USA860730Z; OHP Property Number - 019712; OTIS Resource Number - 422449	Structure, Element of district	Historic	HP04; HP34	1985 (Inone), Jackson Research Projects)
P-27-003000		Resource Name - Building 437; Other - Building 87; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0080; OHP PRN - USA 860730Z; OHP Property Number - 019714; OTIS Resource Number - 422451	Building, Element of district	Historic	HP02; HP34	1985 (Inone), Jackson Research Projects)
P-27-003001		Resource Name - Building 444; Other - Building 86; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0078; OHP PRN - USA 860730Z; OHP Property Number - 019711; OTIS Resource Number - 422452	Building, Element of district	Historic	HP02; HP34	1985 (Inone), Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003002		Resource Name - Building 445; Other - Building 84; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0082; OHP PRN - USA 860730Z; OHP Property Number - 019716; OTIS Resource Number - 422453	Building, Element of district	Historic	HP02; HP34	1985 ([none], Jackson Research Projects)
P-27-003003		Resource Name - Building 447; Other - Building 84; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0083; OHP PRN - USA 860730Z; OHP Property Number - 019718; OTIS Resource Number - 422455	Building, Element of district	Historic	HP02; HP34	1985 ([none], Jackson Research Projects)
P-27-003004		Resource Name - Building 449; Other - Building 83; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0084; OHP PRN - USA 860730Z; OHP Property Number - 019720; OTIS Resource Number - 422457	Building, Element of district	Historic	HP02; HP34	1985 ([none], Jackson Research Projects)
P-27-003005		Resource Name - Building 211; Other - Building 53; OHP PRN - DOE 27-86-0001-0004; OHP PRN - USA 860730Z; OHP Property Number - 019603; OTIS Resource Number - 422340	Building, Element of district	Historic	HP03; HP34	1985 ([none], Jackson Research Projects); 2006 ([none], USA)
P-27-003006		Resource Name - Building 213; Other - Building 57; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0007; OHP PRN - USA 860730Z; OHP Property Number - 019606; OTIS Resource Number - 422342	Building, Element of district	Historic	HP03; HP34	1985 ([none], Jackson Research Projects); 2006 ([none], USA)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003007		Resource Name - Building 215; Other - Building 61; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0008; OHP PRN - USA 860730Z; OHP Property Number - 019607; OTIS Resource Number - 422344	Building, Element of district	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-003008		Resource Name - Building 216; Other - Building 63; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0009; OHP PRN - USA 860730Z; OHP Property Number - 019608; OTIS Resource Number - 422345	Building, Element of district	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-003009		Resource Name - Building 272; Other - Building 17; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0027; OHP PRN - USA 860730Z; OHP Property Number - 019633; OTIS Resource Number - 422370	Building, Element of district	Historic	HP13; HP15; HP34	1985 ([none], Jackson Research Projects); 1985 ([none], Jackson Research Projects)
P-27-003010		Resource Name - Building 276; Other - Building 18; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0031; OHP PRN - USA 860730Z; OHP Property Number - 019637; OTIS Resource Number - 422374	Building, Element of district	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-003011		Resource Name - Transportation Office (Building 125); OHP PRN - 3940-0142-0017; Other - Motor Pool Dispatch Office (Building 165); OHP Property Number - 019592	Building, Element of district	Historic	HP06; HP34	1984 ([none], Jackson Research Associates); 1991 (Michael R. Corbett, Woodruff C. Minor, Corbett & Minor)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003012		Resource Name - Service Station (Building 230); Other - Post Exchange Service Station (Building 173); Other - Presidio of Monterey; OHP PRN - USA 921019A; OHP Property Number - 081464	Building	Historic	HP06; HP34	1991 (Michael R. Corbett & Woodruff C. Minor, Corbett & Minor)
P-27-003013		Resource Name - Army Research Institute Offices (Building 104); OHP PRN - 3940-0142-0007; Other - Corps Area Laboratory (Building T-312); OHP PRN - USA 921008A; OHP PRN - DOE 27-86-0001-0140; OHP PRN - USA 860730Z; OHP Property Number - 101279; OTIS Resource Number - 496157	Building, Element of district	Historic	HP06; HP34	1984 (Inonel, Jackson Research Projects); 1991 (Michael R. Corbett, Woodruff C. Minor, Corbett & Minor)
P-27-003014		Resource Name - Army Research Institute Offices (Building 106); OHP PRN - 3940-0142-0009; Other - Animal House (Building T-313); OHP Property Number - 019585; OTIS Resource Number - 496160	Building, Element of district	Historic	HP06; HP34	1984 (Inonel, Jackson Research Projects); 1991 (Michael R. Corbett, Woodruff C. Minor, Corbett & Minor)
P-27-003015		Resource Name - Youth Center (Building 454); Other - Fire Station (Building T-319); Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0114; OHP PRN - USA 860730Z; OHP Property Number - 019725; OTIS Resource Number - 422462	Building	Historic	HP09; HP34	1991 (Michael R. Corbett, Woodruff C. Minor, Corbett & Minor)
P-27-003016		Resource Name - Building 324, Chaplain Office; Other - Building 349; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0100; OHP PRN - USA 860730Z; OHP Property Number - 019665; OTIS Resource Number - 422402	Building	Historic	HP06; HP34	1985 (Inonel, Jackson Research Projects)



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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003017		Resource Name - Building 339; Other - WAC Barracks; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0103; OHP PRN - USA 860730Z; OHP Property Number - 019680; OTIS Resource Number - 422417	Building	Historic	HP03; HP34	1985 (None), Jackson Research Projects
P-27-003018		Resource Name - Building 340; Other - Building 317-historic name; Other - part of Presidio of Monterey; OHP PRN - DOE 27-86-0001-0104; OHP PRN - USA 860730Z; OHP Property Number - 019681; OTIS Resource Number - 422418	Building	Historic	HP03; HP34	1985 (None), Jackson Research Projects
P-27-003019		Resource Name - Building 341; Other - Building 315; historic name; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0105; OHP PRN - USA 860730Z; OHP Property Number - 019682; OTIS Resource Number - 422419	Building	Historic	HP03; HP34	1985
P-27-003020		Resource Name - Building 343; Telephone Exchange Building; Other - Building T-314; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0106; OHP PRN - USA 860730Z; OHP Property Number - 019683; OTIS Resource Number - 422420	Building	Historic	HP09; HP34	1985; 1992 (Woodruff, C. Minor, Corbett & Minor)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003021		Resource Name - Defense Language Institute Faculty Offices (Building 206); Other - 63-Men Barracks (Building T-343); Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0091; OHP PRN - USA 860730Z; OHP Property Number - 019598; OTIS Resource Number - 422335	Building	Historic	HP03; HP34	1991 (Michael R. Corbett, Woodruff C. Minor, Corbett & Minor)
P-27-003022		Resource Name - Defense Language Institute Faculty Offices (Building 205); Other - 63-Men Barracks (Building T-344); Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0090; OHP PRN - USA 860730Z; OHP Property Number - 019597; OTIS Resource Number - 422334	Building	Historic	HP03; HP34	1991 (Michael R. Corbett, Woodruff C. Minor, Corbett & Minor)
P-27-003023		Resource Name - Faculty Offices (Building 204); Other - 63-Men Barracks (Building T-345); Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0089; OHP PRN - USA 860730Z; OHP Property Number - 019596; OTIS Resource Number - 422333	Building	Historic	HP03; HP34	1991 (Michael R. Corbett, Woodruff C. Minor, Corbett & Minor)
P-27-003024		Resource Name - Post Chapel (Building 325); Other - Post Chapel (Building T-348); Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0101; OHP PRN - USA 860730Z; OHP Property Number - 019666; OTIS Resource Number - 422403	Building	Historic	HP16; HP34	1991 (Michael R. Corbett, Woodruff C. Minor, Corbett & Minor)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003025		Resource Name - Directorate of Training & Doctrine (Building 234); Other - Induction Building (T-352); Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0098; OHP PRN - USA 860730Z; OHP Property Number - 0196119;	Building	Historic	HP06; HP34	1991 (Michael R. Corbett, Woodruff C. Minor, Corbett & Minor)
P-27-003026		Resource Name - Printing Division (Building 233); Other - Processing Building (Building T-353); Other - Presidio of Monterey; OHP PRN - USA 921019A; OHP Property Number - 019; OTIS Resource Number - 422355	Building	Historic	HP06; HP34	1991 (Michael R. Corbett, Woodruff C. Minor, Corbett & Minor)
P-27-003027		Resource Name - Army Research Institute Computer Building (Building 110); Other - Cold Storage Warehouse (Building T-367); OHP Property Number - 019586; OHP PRN - 3940-0142-0010; OTIS Resource Number - 496161	Building, Element of district	Historic	HP08; HP34	1985 ([none], Jackson Research Projects); 1991 (Woodruff C. Minor, Corbett & Minor)
P-27-003028		Resource Name - Storage Building (Building 105); OHP PRN - 3940-0142-0008; Other - Artillery Gun Shed (Building 158); OHP Property Number - 019584; OHP PRN - 3940-0142-0008; OTIS Resource Number - 496151	Building, Element of district	Historic	HP04; HP34	1985 ([none], Jackson Research Projects); 1992 (Woodruff C. Minor, Corbett & Minor)
P-27-003029		Resource Name - Motor Pool Garage (Building 121); OHP PRN - 3940-0142-0015; Other - Artillery Blacksmith Shop (Building 161); OHP Property Number - 019591; OTIS Resource Number - 496155	Building, Element of district	Historic	HP08; HP34	1985 ([none], Jackson Research Projects); 1991 (Woodruff C. Minor, Corbett & Minor)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003030		Resource Name - Boy Scout Lodge (Building 141); OHP PRN - 3940-0142-0018; Other - Barracks and warehouse (Building 169); OHP Property Number - 019594; OTIS Resource Number - 496152	Building, Element of district	Historic	HP03; HP08; HP34	1985 (None), Jackson Research Projects); 1991 (Michael R. Corbett, Woodruff C. Minor, Corbett & Minor)
P-27-003031		Resource Name - Building 418; Other - Building 254; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0120; OHP PRN - USA 860730Z; OHP Property Number - 019703; OTIS Resource Number - 422440	Building	Historic	HP34; HP39	1985
P-27-003032		Resource Name - Building 517; Other - Building 20, P275; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0118; OHP PRN - USA 860730Z; OHP Property Number - 019726; OTIS Resource Number - 422463	Building	Historic	HP06; HP34	1985
P-27-003033		Resource Name - Building 518; Other - Building 273; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0119; OHP PRN - USA 860730Z; OHP Property Number - 019727; OTIS Resource Number - 422464	Building	Historic	HP08; HP34	1985

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003034		Resource Name - Building 118, 119; OHP Property Number - 081458; Other - ARTILLERY STABLES, BUILDING #1578; OHP PRN - USA921019A; OHP Property Number - 101286; Other - BUILDING 118/WAREHOUSE/BUILDING 15; OHP PRN - DOE-27-86-0001-0147; OHP PRN - USA860730Z; OHP Property Number - 019589; Other - BUILDING 155 AND 157, BUILDING 118; OHP PRN - 3940-0142-0013; OTIS Resource Number - 496164	Building	Historic	HP33; HP34	1984 ([none], Jackson Research Projects); 1992 (Michael R. Corbett & Woodruff C. Minor, Corbett & Minor)
P-27-003035		Resource Name - El Castillo Historic District; OHP PRN - 3940-0142-9999; Other - Old Presidio; Other - El Castillo; National Register - NPS 710000167-0000; Voided - S-003513; Voided - E-400 MINT; Other - Monterey Monuments; OTIS Resource Number - 496166	Site, District, Element of district	Prehistoric, Historic	AH04; AP02; HP03; HP29; HP34	1967 ([none], DPR); 1985 ([none], Jackson Research Projects); 2006 (Mary Gerbic, Cabrillo College)
P-27-003063		Resource Name - Building 113; OHP PRN - 3940-0142-0012; Other - Building 118; Other - Building 152; OHP Property Number - 019588; OTIS Resource Number - 496162	Building, Element of district	Historic	HP04; HP34	1984 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003064		Resource Name - Building 219; Other - Building 103; Other - Presidio of Monterey; OHP PRN - USA 101112A; OHP PRN - DOE 27-86-0001-0011; OHP PRN - USA 860730Z; OHP PRN - USA 10112A; OHP Property Number - 019611; OTIS Resource Number - 422348	Building, Element of district	Historic	HP04; HP34	1984
P-27-003065		Resource Name - Building 283; Other - Building 21; Other - Presidio of Monterey; OHP PRN - USA 110526A; OHP PRN - USA 040924A; OHP PRN - DOE 27-86-0001-0037; OHP PRN - USA 860730Z; OHP Property Number - 019643; OTIS Resource Number - 422380	Building, Element of district	Historic	HP09; HP34	1984
P-27-003066		Resource Name - Building 254; Other - Building 250; Other - Building 180; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0016; OHP PRN - USA 860730Z; OHP Property Number - 019621; OTIS Resource Number - 422358	Building, Element of district	Historic	HP04; HP34	1984
P-27-003067		Resource Name - Building 320; Other - Building 40; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0046; OHP PRN - USA 860730Z; OHP Property Number - 019661; OTIS Resource Number - 422398	Building, Element of district	Historic	HP02; HP34	1984
P-27-003068		Resource Name - Building 322; Other - Building 39; OHP PRN - DOE 27-86-0001-0047; OHP PRN - USA 860730Z; OHP Property Number - 019663; OTIS Resource Number - 422400	Building, Element of district	Historic	HP02; HP34	1984

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003069		Resource Name - Defense Language Institute Facility Offices (Building 207); Other - 63-Men Barracks (Building T-342); Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0092; OHP PRN - USA 860730Z; OTIS Resource Number - 422336	Building	Historic	HP03; HP34	1991 (Michael R. Corbett, Woodruff C. Minor, Corbett & Minor)
P-27-003070		Resource Name - Building 261; Other - Building 5; Other - Presidio of Monterey; OHP PRN - DOE 27-86-0001-0020; OHP PRN - USA 860730Z; OHP Property Number - 019625; OTIS Resource Number - 422362	Building, Element of district	Historic	HP08; HP34	1992 (Michael R. Corbett, Woodruff C. Minor, Corbett & Minor)
P-27-003098	CA-MNT-002297H	Resource Name - ASM-NPS-1; OHP PRN - USN20140721001	Site	Historic	AH04	2012 (K. Sprengeler, S.S. Mahoney, C. Peterson, ASM Affiliates)
P-27-003099	CA-MNT-002298H	Resource Name - ASM-NPS-2; OHP PRN - USN20140721001	Site	Historic	AH04	2012 (K. Sprengeler, S.S. Mahoney, C. Peterson, ASM Affiliates, Inc.)
P-27-003100	CA-MNT-002299H	Resource Name - ASM-NPS-3; OHP PRN - USN20140721001	Site	Historic	AH04	2012 (K. Sprengeler, S.S. Mahoney, C. Peterson, ASM Affiliates, Inc.)
P-27-003101	CA-MNT-002300H	Resource Name - ASM-NPS-4; OHP PRN - USN20140721001	Site	Historic	AH04	2012 (K. Sprengeler, S.S. Mahoney, C. Peterson, ASM Affiliated, Inc.)
P-27-003102	CA-MNT-002301H	Resource Name - ASM-NPS-5; OHP PRN - USN20140721001	Site	Historic	AH04	2012 (K. Sprengeler, S.S. Mahoney, C. Peterson, ASM Affiliates, Inc.)
P-27-003171		Resource Name - Park Lane Senior Living Apartments	Building	Historic	HP03	2012 (Dana E. Supernowicz, Historic Resource Associates)
P-27-003199		Resource Name - Huckleberry Hill Quarry 1	Site	Historic	AH09	2011 (Dan Trout, Mary Oneil, Pacific Legacy)
P-27-003201		Resource Name - Community Hospital of the Monterey Peninsula	Building	Historic	HP41	2012 (Dana Supernowicz, Historic Resource Associates)
P-27-003202		Resource Name - Gordon House; OHP Property Number - 019438; OHP PRN - 3940-0002-0004; OHP PRN - NPS 70000137-0004	Building, Site	Historic	AH04; HP02	1977 (Jane Anne Wileman, Monterey Planning Department); 2012 (E. Reese, Pacific Legacy Inc)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003205		Resource Name - Don Dahvee Park Cold Case Site	Site, Other	Unknown	AP09	2013 (Mark Clark, Seaside Police Department)
P-27-003247		Other - Naval Postgraduate School, Herrmann Hall's Present Site; Other - Naval Postgraduate School, Building 221; Other - Naval Postgraduate School, Herrmann Hall Building 221; Other - Hotel Del Monte, East Annex; Other - First and Second Del Monte Hotels; OHP PRN - 3940-0046-0000; OHP Property Number - 019484; Resource Name - Herrmann Hall, Del Monte Hotel; Other - Third Del Monte Hotel; OHP PRN - 3940-0132-0000; Other - Naval Postgraduate School, Building 220; OHP PRN - DOE-27-90-0002-0001; OHP PRN - USN900426A; National Register - 27-0016	Building, Element of district	Historic	HP05; HP34	1977 (Elizabeth R. Nomellini, Monterey Planning Department); 1977 (Elizabeth R. Nomellini, Monterey Planning Department); 1994 (Sally Woodbridge, Department of the Navy)
P-27-003248		OHP PRN - DOE-27-90-0002-9999; Resource Name - Old Del Monte Hotel District; OHP Property Number - 115944; National Register - 27-0016; OHP PRN - USN900426A; OHP PRN - USN010820A; OHP PRN - 3940-0132-0000; Other - Del Monte Historic District	District	Historic	AH03; HP05; HP30; HP34; HP39	1998 ([none], Department of the Navy); 2012 (Steven Melvin, Garret Root, JRP Historical Consulting, LLC)
P-27-003257		Resource Name - Building No. 200 / Airport Terminal Building; Other - Airport Offices	Building	Historic	HP08; HP39	2014 (Debi Howell-Ardila, Emily Williams, SWCA Environmental Consultants)
P-27-003268		Resource Name - Building No. 2475; Other - FAA Tower	Building	Historic	HP39	2014 (Debi Howell-Ardila, Emily Williams, SWCA Environmental Consultants)



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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003269		Resource Name - Building No. 1105; Other - Tenant Building	Building	Historic	HP08; HP39	2014 (Debi Howell-Ardila, Emily Williams, SWCA Environmental Consultants)
P-27-003403		OHP Property Number - 019434; OHP PRN - NPS-66000216-0000; NHL - NHL-66000216-0000; CHL - SHL-0105-0000; OHP PRN - 3940-0001-0000; Other - Royal Presidio Chapel, "La Caqilla Real"; Resource Name - Royal Presidio Chapel of San Carlos de Borromeo; Voided - S-003578; Voided - E-476 MNT	Building	Historic	HP16; HP44	1959 (R.L. Perkins, [none]); 1976 (James Dillon, NPS); 1977 ([none], [none])
P-27-003423		Resource Name - Monterey Old Town Historic District; Other - Old Monterey National Historic Landmark District; OHP Property Number - 019459; OHP PRN - 3940-0002-9999; OHP PRN - NHL-70000137-9999; National Register - NPS-70000137-9999	District	Historic	HP02; HP05; HP06; HP14; HP44	([none], [none]); 1970 (Allen W. Wells, California Department of Parks and Recreation)
P-27-003428		OHP Property Number - 101287; OHP PRN - DOE-27-86-0001-0148; OHP PRN - USA860730Z; OHP PRN - 3940-0142-0001; Resource Name - Building 109, Serra Monument; OTIS Resource Number - 496165	Object, Element of district	Historic	HP26	1985 ([none], Jackson Research Projects)
P-27-003429		OHP Property Number - 019580; OHP PRN - DOE-27-86-0001-015; OHP PRN - USA860730Z; OHP PRN - 3940-0142-0004; Resource Name - Fort Mervine; Other - Ft. Mervine; OTIS Resource Number - 422320	Site, Element of district	Historic	AH02; HP34	1985 ([none], Jackson Research Projects)

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P-27-003430		OHP Property Number - 101280; OHP PRN - DOE-27-86-0001-0141; OHP PRN - USA860730Z; OHP PRN - 3940-0142-0005; Resource Name - Nino Grave Marker; OTIS Resource Number - 496158	Object, Element of district	Historic	HP26	1985 ([none], Jackson Research Projects)
P-27-003431		OHP Property Number - 101281; OHP PRN - DOE-27-86-0001-0142; OHP PRN - USA860730Z; OHP PRN - 3940-0142-0006; Resource Name - Bouchard Monument	Object, Element of district	Historic	HP26	1985 ([none], Jackson Research Projects)
P-27-003432		OHP Property Number - 019590; OHP PRN - 3940-0142-0014; Resource Name - Building 160, Building 120; OTIS Resource Number - 496156	Building, Element of district	Historic	AH15; HP08; HP34	1985 ([none], Jackson Research Projects)
P-27-003441		Resource Name - Facility No. 518; Other - Substation; Other - Transformer House, Substation	Building	Historic	HP34	2012 (Steven Melvin, Garret Root, JRP Historical Consulting, LLC)
P-27-003444	CA-MNT-002411/H	Resource Name - Picnic Site	Site	Prehistoric, Historic	AH07; AP02; AP15	2015 (Jack Meyer, FWAR, Inc.)
P-27-003466		Resource Name - Colton Hall; OHP Property Number - 019439; OHP PRN - DSA-27-SPS-3070; OHP PRN - 3940-0002-0005; OHP PRN - NPS-70000137-0005; OHP PRN - SHL-0126-0000	Building, Element of district	Historic	HP14	1932 (Laura Bridge Privers, [none]); 1977 (Elizabeth R. Nomellini, Monterey Planning Department)
P-27-003467		Resource Name - 697 Cypress Street; OHP PRN - HUD 2014_1027_003; OHP PRN - HUD 2014_1027_004; OHP PRN - HUD 2014_1027_005; Other - Carolyn Rico House	Building	Historic	HP02; HP04	2009 ([none], Page & Turnbull, Inc.)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003477		Resource Name - Larkin House; OHP Property Number - 3940-0002-0010; NHL - 66000215-0000; National Register - 66000215-0000; National Register - 70000137-0010; CHL - 0106-0000	Building	Historic	HP02	1959 (R. L. Perkins, [none]); 1976 (James Dillon, NPS); 1977 (Jane Anne Willeman, Monterey Planning Dept.); 1979 (Jim Arbuckle, [none])
P-27-003478		Resource Name - Larkin Apartment	Building	Historic	HP02	2012 (Matt Bischoff, California State Parks, Monterey District)
P-27-003587	CA-MNT-002426	Resource Name - Feature F-6	Site	Prehistoric	AP02; AP15	2016 (Tom Garlinghouse, Albion Environmental Inc.)
P-27-003630		Resource Name - Del Monte Golf Course; Other - Del Monte Golf and Country Club	Site	Historic	HP29; HP42	2000 ([none], Architectural Resources Group)
P-27-003659		Resource Name - POM-001; Other - 355 Army Street	Site	Prehistoric	AP02; AP16	2016 (Ryan Brady, Dudek)
P-27-003665		Resource Name - Bridge 44C0064; Other - Custom House Tunnel; Other - Lighthouse Avenue; Other - Lighthouse Avenue Tunnel	Structure	Historic	HP19; HP70	2014 (Helen Blackmore, Department of Transportation)
P-27-003673	CA-MNT-002468H	Resource Name - Monterey Pipeline #2; Other - M&PG Railway, Presidio of Monterey spur line	Site	Historic	AH07	2016 (Mary Gerbic, AECOM)
P-27-003674	CA-MNT-002469H	Resource Name - Monterey Pipeline #2; Other - M&PG Railway, Presidio of Monterey spur line; Other - Monterey and Pacific Grove (M&PG) Railway, Ord Barracks spur line	Site	Historic	AH07	2016 (Mary Gerbic, AECOM)
P-27-003675		Resource Name - Presidio of Monterey Building 620; Other - Nisei Hall - Middle East II	Building	Historic	HP14; HP15; HP34	2016 (Melissa Montag, US Army Corps of Engineers)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003678		Resource Name - Presidio of Monterey Building 624; Other - Pomerene Hall - Middle East III	Building	Historic	HP14; HP15; HP34	2016 (Melissa Montag, US Army Corps of Engineers)
P-27-003678		Resource Name - T-Mobile Wireless, LLC Candidate SF05750A (CAL-AM Water Tank); Other - CAL-AM Water Tank	Structure	Historic	HP11	2016 (K.A. Crawford, Crawford Historic Services)
P-27-003688		Resource Name - ca.1930 house	Building	Historic	HP02	2018 (Brian Matuk, Evans & De Shazo)
P-27-003808		Resource Name - El Estero Presbyterian Church	Building	Historic	HP16	2017 (Melanie Ihle, EBI Consulting)
P-27-003879		Resource Name - Bolio 1	Site	Prehistoric, Historic	AP16	2018 (R. Brady, J. Royer, Dudek)
P-27-003965		Resource Name - Building 209; Other - Building 49; OTIS Resource Number - 422338;	Building	Historic	HP03; HP15; HP34	1985 ([none], Jackson Research Projects)
P-27-003965		OHP Property Number - 19601; OHP PRN - USA 860730Z; OHP PRN - DOE-27-86-0001-0002; Other - Barracks #49				
P-27-003966		Resource Name - Building 210; Other - Building 51; OTIS Resource Number - 422339;	Building	Historic	HP03; HP15; HP34	1985 ([none], Jackson Research Projects)
P-27-003966		OHP Property Number - 19602; OHP PRN - USA 860730Z; OHP PRN - DOE-27-86-0001-0003; Other - Barracks #51				
P-27-003967		Resource Name - Building 212; Other - Building 55; OTIS Resource Number - 422341;	Building	Historic	HP03; HP15; HP34	1985 ([none], Jackson Research Projects)
P-27-003967		OHP Property Number - 019604; OHP PRN - DOE-27-86-0001-0005; OHP PRN - USA 860730Z; Other - Barracks #55				

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003968		Resource Name - Building 214; Other - Building 57; OTIS Resource Number - 422343; OHP Property Number - 019606; OHP PRN - DOE-27-86-0001- 0007; OHP PRN - USA 860730Z; Other - Barracks #57	Building	Historic	HP03; HP06; HP15; HP34	1985 ([none], Jackson Research Projects)
P-27-003969		Resource Name - Building 217; Other - Building 65; OTIS Resource Number - 422346; OHP Property Number - 019609; OHP PRN - DOE-27-86-0001- 0093; OHP PRN - USA 860730Z	Building	Historic	AH06; HP04; HP09; HP34	1985 ([none], Jackson Research Projects)
P-27-003970		Resource Name - Building 218; Other - Building 65; OTIS Resource Number - 422347; OHP Property Number - 019610; OHP PRN - DOE-27-86-0001- 0010; OHP PRN - USA 860730Z; Other - Barracks #65	Building	Historic	HP03; HP06; HP15; HP34	1985 ([none], Jackson Research Projects)
P-27-003971		Resource Name - Building 220; Other - Building 105; OTIS Resource Number - 422349; OHP Property Number - 019612; OHP PRN - DOE-27-86-0001- 0012; OHP PRN - USA 860730Z; Other - Bowling Alley; Other - Tailor Shop	Building	Historic	HP06; HP13; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003972		Resource Name - Building 221; Other - Post Exchange; OTIS Resource Number - 422350; OHP Property Number - 19613; OHP PRN - DOE-27-86-0001-0013; OHP PRN - USA 860730Z; Other - Band Barracks; Other - NCO Club	Building	Historic	HP13; HP34	1985 ([none], Jackson Research Projects)
P-27-003973		Resource Name - Building 231; Other - Building 355; OTIS Resource Number - 422353; OHP Property Number - 19616; OHP PRN - DOE-27-86-0001-0095; OHP PRN - USA 860730Z	Building	Historic	HP34; HP39	1985
P-27-003974		Resource Name - Building 232; Other - Building 354; Other - Induction Center; OTIS Resource Number - 422354; OHP Property Number - 019617; OHP PRN - DOE-27-86-0001-0096; OHP PRN - USA 860730Z	Building	Historic	HP34; HP39	1985 ([none], Jackson Research Projects)
P-27-003975		Resource Name - Building 255; Other - Building 7; Other - Ordnance Storage; OTIS Resource Number - 422359; OHP Property Number - 019622; OHP PRN - DOE-27-86-0001-0017; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003976		Resource Name - Building 256; Other - Building 7; Other - Ordnance Storehouse; OTIS Resource Number - 422360; OHP Property Number - 019623; OHP PRN - DOE-27-86-0001- 0018; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-003977		Resource Name - Building 257; Other - Building 179; Other - Ordnance Storehouse; OTIS Resource Number - 422361; OHP Property Number - 019624; OHP PRN - DOE-27-86-0001- 0019; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-003978		Resource Name - Building 262; Other - Building 104; Other - Building P4; OTIS Resource Number - 422363; OHP Property Number - 019626; OHP PRN - DOE-27-86-0001- 0021; OHP PRN - USA 860730Z; Other - Oil Storehouse	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-003979		Resource Name - Building 268; Other - Building 11; Other - Building 10; Other - QM Storehouse; Other - Carpenter Shop; OTIS Resource Number - 422366; OHP Property Number - 019629; OHP PRN - DOE-27-86-0001- 0024; OHP PRN - USA 860730Z	Building	Historic	HP06; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003980		Resource Name - Building 269; Other - Building 11; Other - Quartermaster Storehouse; OTIS Resource Number - 422367; OHP Property Number - 019630; OHP PRN - DOE-27-86-0001- 0025; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-003981		Resource Name - Building 270; Other - Building 151; Other - Building 13; Other - Storage Building 151; OTIS Resource Number - 422368; OHP Property Number - 019631; OHP PRN - DOE-27-86-0001- 0026; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-003982		Resource Name - Building 271; Other - Storage Building 15; OTIS Resource Number - 422369; OHP Property Number - 019632; OHP PRN - DOE-27-86-0001- 0099; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-003983		Resource Name - Building 273; Other - Building 12; Other - Barracks 12; OTIS Resource Number - 422371; OHP PRN - DOE-27-86-0001- 0028; OHP Property Number - 019634; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)



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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003984		Resource Name - Building 274; Other - Building 14; Other - Barracks 14; OTIS Resource Number - 422372; OHP Property Number - 019635; OHP PRN - USA 860730Z; OHP PRN - DOE-27-86-0001-0029	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-003985		Resource Name - Building 277; Other - Building 153; Other - Post Headquarters; Other - Post School; OTIS Resource Number - 422375; OHP Property Number - 019638; OHP PRN - DOE-27-86-0001-0032; Other - USA 860730Z	Building	Historic	HP15; HP34	1985 ([none], Jackson Research Projects)
P-27-003986		Resource Name - Building 278; Other - Building 176; Other - Telephone Exchange; Other - Storage; OTIS Resource Number - 422376; OHP Property Number - 019639; OHP PRN - DOE-27-86-0001-0033; OHP PRN - USA 860730Z	Building	Historic	HP09; HP34	1985 ([none], Jackson Research Projects)
P-27-003987		Resource Name - Building 279; Other - Building 100; Other - P19; Other - QM Garage and Pool; OTIS Resource Number - 422377; OHP Property Number - 019640; OHP PRN - DOE-27-86-0001-0034; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003990		Resource Name - Building 281 ; Other - Building 132; Other - P20; Other - Repair Shop; Other - Blacksmith Shop; OTIS Resource Number - 422378; OHP Property Number - 019644; OHP PRN - DOE-27-86-0001- 0035; OHP PRN - USA 860730Z	Building	Historic	HP09; HP34	1985 ([none], Jackson Research Projects)
P-27-003991		Resource Name - Building 282; Other - Building 22; Other - Coal Shed; Other - Plumbing Shop; OTIS Resource Number - 422379; OHP Property Number - 019642; OHP PRN - DOE-27-86-0001- 0036; OHP PRN - USA 860370Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-003992		Resource Name - Structure 301; Other - Structure 112; Other - Entrance Monument; OTIS Resource Number - 422381; OHP Property Number - 019644; OHP PRN - DOE-27-86-0001- 0038; OHP PRN - USA 860730Z	Structure	Historic	HP26; HP34	1985 ([none], Jackson Research Projects)
P-27-003993		Resource Name - Building 304; Other - Building T224; Other - Building P113; OTIS Resource Number - 422382; OHP Property Number - 019645; OHP PRN - DOE-27-86-0001- 0133; OHP PRN - USA 860730Z; Other - Garage	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003994		Resource Name - Building 305; Other - Building 113A; Other - Storage; OTIS Resource Number - 422383; OHP Property Number - 019646; OHP PRN - DOE-27-86-0001-0117; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-003995		Resource Name - Building 306; Other - Building 48; Other - Officers Quarters; OTIS Resource Number - 422384; OHP Property Number - 019647; OHP PRN - DOE-27-86-0001-0039; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-003996		Resource Name - Building 307; Other - Building 47; Other - Officers Quarters; OTIS Resource Number - 422385; OHP Property Number - 019648; OHP PRN - DOE-27-86-0001-0040; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-003997		Resource Name - Building 308; Other - Building T223; Other - Building P47; OTIS Resource Number - 422386; OHP Property Number - 019649; OHP PRN - DOE-27-86-0001-0131; OHP PRN - USA 860730Z; Other - Garage	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-003998		Resource Name - Building 309; Other - Building 46; Other - Officers Quarters; OTIS Resource Number - 422387; OHP Property Number - 019650; OHP PRN - DOE-27-86-0001-0041; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-003999		Resource Name - Building 310; Other - Building T222; Other - Building 45G; Other - Garage; OTIS Resource Number - 422388; OHP Property Number - 019651; OHP PRN - DOE-27-86-0001-0132; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004000		Resource Name - Building 311; Other - Building 45; Other - Officers Quarters; OTIS Resource Number - 422389; OHP Property Number - 019652; OHP PRN - DOE-27-86-0001-0126; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004001		Resource Name - Building 312; Other - Building 44; Other - Officers Quarters; OTIS Resource Number - 422390; OHP Property Number - 019653; OHP PRN - DOE-27-86-0001-0152; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-004002		Resource Name - Building 313; Other - Building T221; Other - P44-G; Other - Garage; OTIS Resource Number - 422391; OHP Property Number - 019654; OHP PRN - DOE-27-86-0001-0115; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004003		Resource Name - Building 314; Other - Building 43; Other - Officers Quarters; OTIS Resource Number - 422392; OHP Property Number - 019655; OHP PRN - DOE-27-86-0001-0042; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004004		Resource Name - Building 315; Other - Building 50; Other - P44-A; Other - Servants Quarters; OTIS Resource Number - 422393; OHP Property Number - 019656; OHP PRN - DOE-27-86-0001-0116; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004005		Resource Name - Building 316; Other - Building 52; Other - Building 42A; Other - Servants Quarters; OTIS Resource Number - 422394; OHP Property Number - 019657; OHP PRN - DOE-27-86-0001-0043; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-004006		Resource Name - Building 317; Other - Building 42; Other - Officers Quarters; OTIS Resource Number - 422395; OHP Property Number - 19658; OHP PRN - DOE-27-86-0001- 0044; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004007		Resource Name - Building 318; Other - Building 220; Other - 41G; Other - Garage; OTIS Resource Number - 422396; OHP Property Number - 019659; OHP PRN - DOE-27-86-0001- 0125; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004008		Resource Name - Building 319; Other - Building 41; Other - Officers Quarters; OTIS Resource Number - 422397; OHP Property Number - 019660; OHP PRN - DOE-27-86-0001- 0045; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004009		Resource Name - Building 321; Other - T130; Other - P39G; Other - Garage; OTIS Resource Number - 422399; OHP Property Number - 019662; OHP PRN - DOE-27-86-0001- 0127; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-004010		Resource Name - Structure 323; Other - Structure 185; Other - Tennis Courts; OTIS Resource Number - 422401; OHP Property Number - 019664; OHP PRN - DOE-27-86-0001- 0048; OHP PRN - USA 860730Z	Structure	Historic	HP34; HP39	1985 ([none], Jackson Research Projects)
P-27-004011		Resource Name - Building 327; Other - Building 38; Other - Officers Quarters; OTIS Resource Number - 422405; OHP Property Number - 019668; OHP PRN - DOE-27-86-0001- 0049; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004012		Resource Name - Building 328; Other - Building 38G; Other - Garage; OTIS Resource Number - 422406; OHP Property Number - 019669; OHP PRN - DOE-27-86-0001- 0130; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004013		Resource Name - Building 329; Other - Building 37A; Other - Servants Quarters; OTIS Resource Number - 422407; OHP Property Number - 019670; OHP PRN - DOE-27-86-0001- 0050; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-004014		Resource Name - Building 330; Other - Building 37; Other - Officers Quarters; OTIS Resource Number - 422408; OHP Property Number - 19671; OHP PRN - DOE-27-86-0001- 0051; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004015		Resource Name - Building 331; Other - Building 36G; OTIS Resource Number - 422409; OHP Property Number - 019672; OHP PRN - DOE-27-86-0001- 0129; OHP PRN - USA 860730Z; Other - Garage	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004016		Resource Name - Building 333; Other - Building 35; OTIS Resource Number - 422411; OHP Property Number - 019674; OHP PRN - DOE-27-86-0001- 0054; OHP PRN - USA 860730Z; Other - Officers Quarters; Other - Officers Family Housing	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004017		Resource Name - Building 334; Other - Building 34G; Other - Garage; OTIS Resource Number - 422412; OHP Property Number - 019675; OHP PRN - DOE-27-86-0001- 0128; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)



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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-004018		Resource Name - Building 335; Other - Building 34; Other - Officers Family Housing; Other - Officers Quarters; OTIS Resource Number - 422413; OHP Property Number - 019676; OHP PRN - USA 860730Z; OHP PRN - DOE-27-86-0001-0055	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004019		Resource Name - Building 337; Other - Building T213; Other - P32-G; OTIS Resource Number - 422415; OHP Property Number - 019678; Other - Garage; OHP PRN - DOE-27-86-0001-0102; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004020		Resource Name - Building 338; Other - Building 32; Other - Officers Quarters; OTIS Resource Number - 422416; OHP Property Number - 019679; OHP PRN - DOE-27-86-0001-0057; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004021		Resource Name - Building 345; Other - Building 23; Other - Officers Quarters; OTIS Resource Number - 422421; OHP Property Number - 019684; OHP PRN - DOE-27-86-0001-0058; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-004022		Resource Name - Building 346; Other - Building 24; Other - Officers Quarters; OTIS Resource Number - 422422; OHP Property Number - 019685; OHP PRN - DOE-27-86-0001- 0059; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004023		Resource Name - Building 347; Other - Building T127; Other - P24-G; Other - Garage; OTIS Resource Number - 422423; OHP Property Number - 019686; OHP PRN - DOE-27-86-0001- 0060; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004024		Resource Name - Building 348; Other - Building 25; Other - Officers Quarters; OTIS Resource Number - 422424; OHP Property Number - 019687; OHP PRN - DOE-27-86-0001- 0061; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004025		Resource Name - Building 349; Other - Building 26; OTIS Resource Number - 422425; OHP Property Number - 019688; OHP PRN - DOE-27-86-0001- 0062; OHP PRN - USA 860730Z; Other - Officers Quarters	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-004026		Resource Name - Building 350; Other - Building T128; Other - P26-G; Other - Garage; OTIS Resource Number - 422426; OHP Property Number - 019689; OHP PRN - DOE-27-86-0001-0107; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004027		Resource Name - Building 351; Other - Building 27; Other - Officers Quarters; OTIS Resource Number - 422427; OHP Property Number - 019690; OHP PRN - DOE-27-86-0001-0063; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004028		Resource Name - Building 352; Other - Building T125; Other - P27-G; Other - Garage; OTIS Resource Number - 422428; OHP Property Number - 019691; OHP PRN - DOE-27-86-0001-0108; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004029		Resource Name - Building 353; Other - Building 28G; Other - Garage; OTIS Resource Number - 422429; OHP Property Number - 019692; OHP PRN - DOE-27-86-0001-0064; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-004030		Resource Name - Building 354; Other - Building 117; Other - NCO Quarters; OTIS Resource Number - 422430; OHP Property Number - 019693; OHP PRN - DOE-27-86-0001-0065; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004031		Resource Name - Building 355; Other - Building 28; Other - Officers Quarters; OTIS Resource Number - 422431; OHP Property Number - 019694; OHP PRN - DOE-27-86-0001-0066; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004032		Resource Name - Building 356; Other - Building 116 A & B; Other - NCO Quarters; OTIS Resource Number - 422432; OHP Property Number - 019695; OHP PRN - DOE-27-86-0001-0067; OHP PRN - USA860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004033		Resource Name - Building 357; Other - Building 29 A & B; Other - Officers Quarters; OTIS Resource Number - 422433; OHP Property Number - 019696; OHP PRN - DOE-27-86-0001-0068; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)

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Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-004034		Resource Name - Building 358; Other - Building 115 A and B; Other - NCO Quarters; OTIS Resource Number - 422434; OHP Property Number - 019697; OHP PRN - DOE-27-86-0001-0069; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004035		Resource Name - Building 359; Other - Building 30; Other - Mess Hall; OTIS Resource Number - 422435; OHP Property Number - 019698; OHP PRN - DOE-27-86-0001-0070; OHP PRN - USA 860730Z	Building	Historic	HP34	1985 ([none], Jackson Research Projects)
P-27-004036		Resource Name - Building 360; Other - Building T143; Other - P115-G; Other - Garage; OTIS Resource Number - 422436; OHP Property Number - 019699; OHP PRN - DOE-27-86-0001-0109; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004037		Resource Name - Building 361; Other - Building 31 A and B; Other - Officers Quarters; OTIS Resource Number - 422437; OHP Property Number - 019700; OHP PRN - DOE-27-86-0001-0071; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)

# Resource List

NWIC File # 22-1686 City of Monterey General Plan Update

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-004038		Resource Name - Building 363; Other - Building T120; Other - P31-G; Other - Garage; OTIS Resource Number - 422438; OHP Property Number - 019701; OHP PRN - DOE-27-86-0001-0110; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004039		Resource Name - Building 364; Other - Building 118; Other - NCO Quarters; OTIS Resource Number - 422439; OHP Property Number - 019702; OHP PRN - DOE-27-86-0001-0072; OHP PRN - USA 860730Z	Building	Historic	HP03; HP34	1985 ([none], Jackson Research Projects)
P-27-004040		Resource Name - Building 428; Other - Building T182; Other - P73-G; Other - Garage; OTIS Resource Number - 422441; OHP Property Number - 019704; OHP PRN - DOE-27-86-0001-0111; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004041		Resource Name - Building 424; Other - Building T225; Other - P73-G; Other - Garage; OTIS Resource Number - 422442; OHP Property Number - 019705; OHP PRN - USA 860730Z; OHP PRN - DOE-27-86-0001-0121	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)

# Resource List

NWIC File # 22-1686 City of Monterey General Plan Update

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by
P-27-004042		Resource Name - Building 436; Other - Building T123; Other - 249G; Other - Garage; OTIS Resource Number - 422450; OHP Property Number - 019713; OHP PRN - DOE-27-86-0001-0122; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004043		Resource Name - Building 446; Other - Building T142; Other - P85; Other - Garage; OTIS Resource Number - 422454; OHP Property Number - 019717; OHP PRN - DOE-27-86-0001-0112; OHP PRN - USA 860730Z	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004044		Resource Name - Building 448; Other - Building 83; Other - Garage; OTIS Resource Number - 422456; OHP Property Number - 019719; OHP PRN - USA 860730Z; OHP PRN - DOE-27-86-0001-0113	Building	Historic	HP04; HP34	1985 ([none], Jackson Research Projects)
P-27-004045		Resource Name - Soldier Field; Other - Parade Ground; OTIS Resource Number - 422466; OHP Property Number - 019729; OHP PRN - DOE-27-86-0001-0124; OHP PRN - USA 860730Z	Site	Historic	HP34; HP35; HP42	1985 ([none], Jackson Research Projects)
P-27-004046		Resource Name - Streets; OTIS Resource Number - 482966; OHP Property Number - 84606; OHP PRN - DOE-27-86-0001-0151; OHP PRN - USA 860730Z	Site	Historic	HP34	1985 ([none], Jackson Research Projects)

Monterey City and County, OHP BERD Listings Dated 9/23/22

OTIS ID	Name	St Number	St Name	City	Evaluation Info	Const. Year(s)
683419	Pineview Housing in La Mesa Development~			MONTEREY	6Y, 04/23/2019, USA_2018_1226_001	
687619	Alta Mesa Neighborhood District			MONTEREY		
683414	Capehart Housing			Monterey		1961
422226	FIRST AND SECOND DEL MONTE HOTEL			MONTEREY	3S, , 3940-0046-0000	1880
422311	ROOT HALL, NAVAL POSTGRADUATE SCHOOL			MONTEREY	7R, , 3940-0133-0000	1956
467110	PRESIDIO OF MONTEREY DISTRICT			MONTEREY	2S2, 08/30/1986, DOE-27-86-0001-9999   2S2, 08/30/1986, USA860730Z	
477245	BUILDING #403			MONTEREY	6Y, 07/24/1992, DOE-27-92-0001-0000   6Y, 07/24/1992, USN920626B	1924
477246	BUILDING #404			MONTEREY	6Y, 07/24/1992, DOE-27-92-0002-0000   6Y, 07/24/1992, USN920626B	1924
477247	BUILDING #406			MONTEREY	6Y, 07/24/1992, DOE-27-92-0003-0000   6Y, 07/24/1992, USN920626B	1924
482965	RETAINING WALLS			MONTEREY	2S2, 08/30/1986, DOE-27-86-0001-0150   2S2, 08/30/1986, USA860730Z	1935
482966	STREET, ROAD, AVENUE, WAY, AND PATH			MONTEREY	7R, , 3940-0143-0136	1902
497638	SID ORMSBEE FIRE LOOKOUT STATION			MONTEREY	4CM, 09/18/1996, ST.AG.-3540-0065	1948



498043	EL TORO CREEK BRIDGE, BRIDGE #44-0015				MONTEREY	6Y, 01/19/1996, DOE-27-96-0008-0000   6Y, 01/19/1996, FHWA951115A   6Y, 11/12/1989, FHWA890814J	
505738	LA MESA VILLAGE (WHERRY HOUSING COMPLEX)				MONTEREY	6Y, 12/01/1997, DOE-27-97-0001-0000   6Y, 12/01/1997, USN971015A	1952
574413	NAVAL POSTGRADUATE SCHOOL Gymnasium Bldg 239				MONTEREY	6Y, 04/04/2000, DOE-27-00-0001-0000   6Y, 04/04/2000, USN991129B	1953
574451	NAVY DINING HALL				MONTEREY	6Y, 09/22/1999, USN991129B	
570019	BUILDING 205				MONTEREY	6Y, 11/28/2000, DOE-27-00-0006-0000   6Y, 11/28/2001, USN001101A	1931
570020	NAVAL POSTGRADUATE SCHOOL BOATHOUSE Bldg 27				MONTEREY	6Y, 11/28/2000, USN001101A   6Y, 11/28/2001, DOE-27-00-0007-0000	1943
570021	BUILDING 211				MONTEREY	6Y, 11/28/2000, DOE-27-00-0008-0000   6Y, 11/28/2000, USN001101A	
569222	HOTEL DEL MONTE BARRACKS #30				MONTEREY	6Y, 09/20/2001, DOE-27-01-0002-0000   6Y, 09/20/2001, USN010820A	1930-1931
532736	BUILDING 302				MONTEREY	6Y, 06/12/2006, USN060607A	1992
532737	BUILDING 258				MONTEREY	6Y, 06/12/2006, USN060607A	
468688	FIRST STREET AND PARK AVENUE SCHOOL			1ST ST	MONTEREY	6Y, 04/21/1988, HUD870615A	
482401		1240		4TH ST	MONTEREY	6Y, 08/27/1993, HUD930713E	1938
483094	BLACK, MARY C.W., STUDIO HOUSE & COMPLEX	556		ABREGO ST	MONTEREY	1S, 08/24/1994, 27-0011   1S, 08/24/1994, NPS-94001007-	1930

						9999   2S3, 05/16/2006, 537.9-27-0003	
492797	MARY BLACK STUDIO HOUSE	556	ABREGO ST	MONTEREY		1D, 08/24/1994, NPS-94001007-0001	1930
492798	ABREGO STREET WALLED ENTRY - BLACK STUDIO	556	ABREGO ST	MONTEREY		1D, 08/24/1994, NPS-94001007-0002	1930
492799	HOUSTON STREET WALLED ENTRY - BLACK STUDIO	556	ABREGO ST	MONTEREY		1D, 08/24/1994, NPS-94001007-0003	1930
492800	SERVANTS QUARTERS - BLACK STUDIO	556	ABREGO ST	MONTEREY		1D, 08/24/1994, NPS-94001007-0004	1930
492801	GARDENER'S SHED - BLACK STUDIO	556	ABREGO ST	MONTEREY		6X, 08/24/1994, NPS-94001007-0005	1930
422210	CASA ABREGO	592	ABREGO ST	MONTEREY		2S2, 07/26/2004, DOE-27-05-0004-0000   2S2, 07/26/2004, HUD040609B   3S, , 3940-0014-0000	1834
422213	CASA PACHECO	602	ABREGO ST	MONTEREY		2S2, 04/23/2003, DOE-27-03-0009-0000   2S2, 04/23/2003, HUD030310I   3S, , 3940-0021-0000	1840
422214	CASA MADARIAGA	615	ABREGO ST	MONTEREY		3S, , 3940-0023-0000	1840
687624	La Fonda Motel, Hotel Abrego	755	Abrego St	Monterey			1954-2009
687625	Harbor Light Tattoo	847	Abrego St	Monterey			1962
687626		865	Abrego St	Monterey			1965
687627	Groza Construction	883	Abrego St	Monterey			1959
687628	Jack-in-the-Box	889	Abrego St	Monterey			1968
516058		5	ABSINANTE WY	MONTEREY		6Y, 02/10/2011, HUD110207P	1962
422315	MONTEREY NIHONJINKAI, JAACL HALL	424	ADAMS ST	MONTEREY		2S2, 02/22/2005, DOE-27-05-0001-0000   2S2, 02/22/2005, HUD050211G   7R, , 3940-0137-0000	1925
687630		14	ALTA MESA CIR	Monterey			1961

687629		2	ALTA MESA CIR	Monterey		1966
687631		21	ALTA MESA CIR	Monterey		1960
687632		32	ALTA MESA CIR	Monterey		1960
687633		44	ALTA MESA CIR	Monterey		1961
687634		47	ALTA MESA CIR	Monterey		1965
687635		51	ALTA MESA CIR	Monterey		1966
687636		52	ALTA MESA CIR	Monterey		1960
687637		53	ALTA MESA CIR	Monterey		1966
687638		57	ALTA MESA CIR	Monterey		1968
687639		58	ALTA MESA CIR	Monterey		1968
687640		63	ALTA MESA CIR	Monterey		1961
687642		64	ALTA MESA CIR	Monterey		1967
687643		70	ALTA MESA CIR	Monterey		1967
687644		75	ALTA MESA CIR	Monterey		1968
687645		82	ALTA MESA CIR	Monterey		1961
687646		87	ALTA MESA CIR	Monterey		1969
687647		88	ALTA MESA CIR	Monterey		1961
687648		93	ALTA MESA CIR	Monterey		1959
687649		97	ALTA MESA CIR	Monterey		1960
687651		1101	Alta Mesa Rd	Monterey		1948-1995
687652		1104	Alta Mesa Rd	Monterey		
687653		1108	Alta Mesa Rd	Monterey		1955-1995
687654		1123	Alta Mesa Rd	Monterey		1969
687655		1125	Alta Mesa Rd	Monterey		1966
687650	Jacks House	1129	Alta Mesa Rd	Monterey		1880-1963
687656		1130	Alta Mesa Rd	Monterey		1950-2008
687657		1134	Alta Mesa Rd	Monterey		1952
687661		1135	Alta Mesa Rd	Monterey		1949
687662		1136	Alta Mesa Rd	Monterey		1950
687663		1150	Alta Mesa Rd	Monterey		1956

687664		1159	Alta Mesa Rd	Monterey		1959
687665		1160	Alta Mesa Rd	Monterey		1958
687666		1170	Alta Mesa Rd	Monterey		1959
687667		1171	Alta Mesa Rd	Monterey		1959
687668		1180	Alta Mesa Rd	Monterey		1955
687669		1185	Alta Mesa Rd	Monterey		1957
687670		1189	Alta Mesa Rd	Monterey		1942
687671		1190	Alta Mesa Rd	Monterey		1954
687672		1191	Alta Mesa Rd	Monterey		1959
422278	SAN DIEGO FEDERAL SAVINGS	316	ALVARADO ST	MONTEREY	7R, 3940-0098-0000	1972
422217	CASA RODRIGUEZ ADOBE, JACINTO RODRIGUEZ ADOBE	330	ALVARADO ST	MONTEREY	3S, 3940-0035-0000	1849
422260	ORDWAY BLOCK BUILDING, ORDWAY PHARMACY	398	ALVARADO ST	MONTEREY	3S, 3940-0080-0000	1905
422259	MONTEREY COUNTY BANK, WELLS FARGO BANK	399	ALVARADO ST	MONTEREY	3S, 3940-0079-0000	1904
422263	GOLDSTINE BLOCK BUILDING	400	ALVARADO ST	MONTEREY	3S, 3940-0083-0000	1906
422275	BURKETT BANK BUILDING, UNITED CALIFORNIA BANK	401	ALVARADO ST	MONTEREY	7R, 3940-0095-0000	1966
422261	GREENE BUILDING	402	ALVARADO ST	MONTEREY	3S, 3940-0081-0000	1905
556074	MONTEREY HOTEL	406	ALVARADO ST	MONTEREY	2S2, 04/23/2003, DOE-27-03-0007-0000   2S2, 04/23/2003, HUD030310Q	1904
422266	ORTINS BLOCK, MAROTTAS	409	ALVARADO ST	MONTEREY	3S, 3940-0086-0000	1910
422257	VILLAGE HARDWARE	410	ALVARADO ST	MONTEREY	3S, 3940-0077-0000	1880
422207	CASA SANCHEZ	412	ALVARADO ST	MONTEREY	2S2, 04/28/2003, DOE-27-03-0011-0000   2S2, 04/28/2003, HUD030310Y   3S, 3940-0009-0000	1829

422270	STATE THEATER	417	ALVARADO ST	MONTEREY	6Y, 06/06/2007, HUD070502H   6Y, 07/06/2007, 3940-0090- 0000	1924
422267	A R UNDERWOOD BUILDING, J C PENNY CO	418	ALVARADO ST	MONTEREY	3S, , 3940-0087-0000	1912
422280	ARTHURS MEN'S CLOTHES	423	ALVARADO ST	MONTEREY	7R, , 3940-0100-0000	
422264	REGENCY THEATER	426	ALVARADO ST	MONTEREY	3S, , 3940-0084-0000	1910
422281	FORTUNE COOKIE RESTAURANT	429	ALVARADO ST	MONTEREY	7R, , 3940-0101-0000	
422282	MARTINS BOOT SHOP	432	ALVARADO ST	MONTEREY	7R, , 3940-0102-0000	
422265	MONTEREY INVESTMENT CO, REDS DONUTS	433	ALVARADO ST	MONTEREY	3S, , 3940-0085-0000	1910
422268	CROCKER BANK	439	ALVARADO ST	MONTEREY	7R, , 3940-0088-0000	1922
422276	THE POPPY	444	ALVARADO ST	MONTEREY	7R, , 3940-0096-0000	1968
422258	FIRST NATIONAL BANK OF MONTEREY, A R BERGGUIST BUI	447	ALVARADO ST	MONTEREY	7N, , 3940-0078-0000	1904
422274	MONTEREY SAVINGS & LOAN ASSOCIATION	449	ALVARADO ST	MONTEREY	7R, , 3940-0094-0000	1962
422283	OLD MONTEREY HALLMARK	452	ALVARADO ST	MONTEREY	7R, , 3940-0103-0000	
422284	F W WOOLWORTH	458	ALVARADO ST	MONTEREY	7R, , 3940-0104-0000	
422262	T A WORKS OPERA HOUSE & THEATER BLDG, MULTIPLE COM	459	ALVARADO ST	MONTEREY	3S, , 3940-0082-0000	1906
422285	MONTY'S SHOES	462	ALVARADO ST	MONTEREY	7R, , 3940-0105-0000	
422286	MULTIPLE COMMERCIAL	464	ALVARADO ST	MONTEREY	7R, , 3940-0106-0000	
422287	REDMAN HALL, MONTEREY RADIO AND TELEVISION	475	ALVARADO ST	MONTEREY	5S2, , 3940-0107-0000	
422269	ROUND TABLE PIZZA	479	ALVARADO ST	MONTEREY	3S, , 3940-0089-0000	1923
422288		481	ALVARADO ST	MONTEREY	7R, , 3940-0108-0000	
422272	BANK OF AMERICA	482	ALVARADO ST	MONTEREY	7R, , 3940-0092-0000	1941
422271	MONTEREY SPORTSHOP	486	ALVARADO ST	MONTEREY	7R, , 3940-0091-0000	1941
422289	MULTIPLE COMMERCIAL	487	ALVARADO ST	MONTEREY	7R, , 3940-0110-0000	
422273	AMERICAN SAVINGS	499	ALVARADO ST	MONTEREY	7R, , 3940-0093-0000	1951

422279	PASEO DE ALVARADO	501	ALVARADO ST	MONTEREY	7R, 3940-0099-0000	1975
536907		0	ANITA ST	MONTEREY	7R, 09/20/2005, 3940-0290-0000	
537026		260	ANITA ST	MONTEREY	7R, 09/20/2005, 3940-0291-0000	1962
537148		266	ANITA ST	MONTEREY	5S3, 09/20/2005, 3940-0145-0000	1927
537149		276	ANITA ST	MONTEREY	5D3, 09/20/2005, 3940-0146-0000	1927
537027		286	ANITA ST	MONTEREY	7R, 09/20/2005, 3940-0292-0000	1962
537028		292	ANITA ST	MONTEREY	7R, 09/20/2005, 3940-0293-0000	1926
537150		299	ANITA ST	MONTEREY	5S3, 09/20/2005, 3940-0147-0000	1927
502932	LOU ELLEN PARMELEE HOUSE	570	ARCHER ST	MONTEREY	1S, 01/07/1998, NPS-97001633-0000   3S, 08/11/1997, 27-0024	1896
471650		877	ARCHER ST	MONTEREY	6Y, 01/25/1991, HUD910107B	1930
422391	GARAGE		ARMY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0115   2D2, 08/30/1986, USA860730Z	1930
422393	SERVANTS QUARTERS		ARMY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0116   2D2, 08/30/1986, USA860730Z	1932
422394	SERVANTS QUARTERS		ARMY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0043   2D2, 08/30/1986, USA860730Z	1932
422396	GARAGE		ARMY ST	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0125   6Y, 08/30/1986, USA860730Z	1940
422399	GARAGE		ARMY ST	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0127   6Y, 08/30/1986, USA860730Z	

422406	BUILDING 38G		ARMY ST	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0130   6Y, 08/30/1986, USA860730Z	1940
422407	BUILDING 37A		ARMY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0050   2D2, 08/30/1986, USA860730Z	1932
422409	BUILDING 36G		ARMY ST	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0129   6Y, 08/30/1986, USA860730Z	1940
422412	BUILDING 34G		ARMY ST	MONTEREY	7R, 3940-0143-0080	1940
422415	BUILDING T213		ARMY ST	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0102   6Y, 08/30/1986, USA860730Z	1940
422423	BUILDING T127		ARMY ST	MONTEREY	2D2, 08/30/1986, USA860730Z   2D2, 08/30/1996, DOE-27-86-0001-0060	1930
422426	BUILDING T128		ARMY ST	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0107   6Y, 08/30/1986, USA860730Z	1940
422428	BUILDING T125		ARMY ST	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0108   6Y, 08/30/1986, USA860730Z	1940
422429	BUILDING 28G		ARMY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0064   2D2, 08/30/1986, USA860730Z	1930
422430	BUILDING 117		ARMY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0065   2D2, 08/30/1986, USA860730Z	1908
422432	BUILDING 116 A & B		ARMY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0067   2D2, 08/30/1986, USA860730Z	1908
422433	BUILDING 29 A & B		ARMY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0068   2D2, 08/30/1986, USA860730Z	1903

422434	BUILDING 115 A & B		ARMY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0069   2D2, 08/30/1986, USA860730Z	1908
422436	BUILDING T143		ARMY ST	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0109   6Y, 08/30/1986, USA860730Z	1940
422438	BUILDING T120		ARMY ST	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0110   6Y, 08/30/1986, USA860730Z	1940
422462	BUILDING #319		ARMY ST	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0114   6Y, 08/30/1986, USA860730Z	1943
480186	GARAGE BUILDING #31-G, GARAGE BUILDING #363		ARMY ST	MONTEREY	2D2, 01/15/1993, DOE-27-93-0002-0007   2D2, 01/15/1993, USA921019A	1940
422302	HOWARD HOUSE	86	AVE MARIA RD	MONTEREY	2S2, 11/21/2001, DOE-27-01-0006-0000   2S2, 11/21/2001, HUD011015F   3S, , 3940-0123-0000	1929
478634		74	BARTOLOMEA WY	MONTEREY	7J, 12/01/1992, HUD921201A	
422464	BUILDING #273		BELLEGARDE WY	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0119   2D2, 08/30/1986, USA860730Z	1935
422277	BARREL HOUSE	80	BONIFACIO PLAZA	MONTEREY	7R, , 3940-0097-0000	1968
422202	CASA BORONDA, Boronda Adobe	100	BORONDA LN	MONTEREY	3S, , 3940-0003-0000	1817
422185	SHERMAN HALLECK ADOBE, SHERMAN HEADQUARTERS		CALLE PRINCIPAL	MONTEREY	1D, 04/15/1970, NPS-70000137-0009   3D, 08/01/1977, 3940-0002-0009	
422193	Old Pacific House	200	CALLE PRINCIPAL	MONTEREY	1D, 04/15/1970, NPS-70000137-0017   3D, 08/01/1977, 3940-	



						0002-0017   7L, 10/09/1939, SHL-0354-0000	
422186	Larkin House	510	CALLE PRINCIPAL	MONTEREY	1D, 04/15/1970, NPS-70000137- 0010   1S, 10/15/1966, NPS- 66000215-0000   1S, 12/09/1960, NHL-66000215- 0000   3B, 08/01/1977, 3940- 0002-0010   7L, 03/29/1933, SHL-0106-0000	1835	
684349		540	Calle Principal	Monterey	1D, 02/07/2002,		
422184	La Casa De Los Vientos; House of the Four Winds	546	CALLE PRINCIPAL	MONTEREY	1D, 04/15/1970, NPS-70000137- 0008   3D, 08/01/1977, 3940- 0002-0008   7K, 04/23/1999, DOE-27-99-0001-0000   7K, 04/23/1999, HUD9903291   7L, 10/09/1939, SHL-0353-0000	1830	
422183	CASA GUTIERREZ ADOBE	580	CALLE PRINCIPAL	MONTEREY	1D, 04/15/1970, NPS-70000137- 0007   3D, 08/01/1977, 3940- 0002-0007   7L, 09/11/1959, SHL-0713-0000	1841	
422238	AGUAJITO BUILDING	400	CAMINO AGUAJITO	MONTEREY	7R, , 3940-0058-0000	1968	
422239		666	CAMINO AGUAJITO	MONTEREY	7R, , 3940-0059-0000	1968	
422216	FIRST FRENCH CONSULATE		CAMINO EL ESTERO	MONTEREY	3S, , 3940-0034-0000	1848	
422229	G. T. MARSH & SONS	700	CAMINO EL ESTERO	MONTEREY	1S, 08/08/2007, NPS-05001113- 0000   3S, , 3940-0049-0000   3S, 03/10/2005, 27-0039	1928	
422248	AENEUS SARDINE PACKING BUILDING AND STOREHOUSE	300	CANNERY ROW	MONTEREY	2S3, 02/24/2015, 537.9-27-0004   7R, , 3940-0068-0000	1945	
422240	MURRAY ESTATE CARRIAGE HOUSE, CRISPO INCORPORATED	417	CANNERY ROW	MONTEREY	3S, , 3940-0060-0000	1900	

422241	MURRAY ESTATE CARRIAGE HOUSE, CRISPOS ANTIQUES	425	CANNERY ROW	MONTEREY	35, , 3940-0061-0000	1900
422254	WILLY LUMS CHINA ROW	444	CANNERY ROW	MONTEREY	7R, , 3940-0074-0000	1972
422253	CARMEL AND CUSTOM HOUSE BUILDING, CANNERY ROW SQUA	585	CANNERY ROW	MONTEREY	7R, , 3940-0073-0000	1971
422245	BEAR FLAG BUILDING, MULTIPLE COMMERCIAL	645	CANNERY ROW	MONTEREY	3S, , 3940-0065-0000	
422246	CHINESE HOTEL, MULTIPLE COMMERCIAL	648	CANNERY ROW	MONTEREY	3S, , 3940-0066-0000	
422244	MONTEREY CANNING CO	700	CANNERY ROW	MONTEREY	3S, , 3940-0064-0000	1917
422250	DOCS LAB	800	CANNERY ROW	MONTEREY	1D, 12/29/1994, NPS-94001498-0001   5S2, , 3940-0070-0000	1937-1945
491287	PACIFIC BIOLOGICAL LABORATORIES	800	CANNERY ROW	MONTEREY	1S, 12/29/1994, 27-0013   1S, 12/29/1994, NPS-94001498-9999	1937-1945
491288	SPECIMEN HOLDING TANK #1	800	CANNERY ROW	MONTEREY	1D, 12/29/1994, NPS-94001498-0002	1928
491289	SPECIMEN HOLDING TANK #2	800	CANNERY ROW	MONTEREY	1D, 12/29/1994, NPS-94001498-0002	1928
491291	METAL REDUCTION VAT	800	CANNERY ROW	MONTEREY	1D, 12/29/1994, NPS-94001498-0004	1939
422251	WING CHONG STORE, OLD GENERAL STORE	835	CANNERY ROW	MONTEREY	2S2, 06/18/2007,   3S, , 3940-0071-0000	1918
422252	LA IDA CAFE, KALISAS RESTAURANT	851	CANNERY ROW	MONTEREY	2S2, 08/16/2007, HUD0705021   5S2, , 3940-0072-0000	1929
422242	HOVDEN CANNERY	886	CANNERY ROW	MONTEREY	2S, 09/20/1979, 65000807   2S, 09/20/1979, 65000807   2S2, 08/15/2008, FCC080623A   3S, 01/01/1979, 3940-0062-0000	1914
571033	BROMFIELD		CARPENTER ST	MONTEREY	1CS, 02/02/2001, CR   3S, 07/31/2000, 27-0032	1888
675820		820	CASANOVA AVE	Monterey	6Y, 05/16/2014, HUD_2014_0515_002	1985

422221	JACKS ADOBE, CASA DE CASTRO		CASTRO RD	MONTEREY	35, , 3940-0041-0000	1853
422237	JULIA MORGANS STUDIO, FATHER DOMAN RESIDENCE	373	CEDAR ST	MONTEREY	35, , 3940-0057-0000	1920
422304	MATTERSON HOME	10	CHUALAR PL	MONTEREY	5S2, , 3940-0125-0000	1959
422176	ROYAL PRESIDIO CHAPEL OF SAN CARLOS BORROMEO	550	CHURCH ST	MONTEREY	1S, 10/09/1960, NHL-66000216- 0000   1S, 10/15/1966, 3940- 0001-0000   1S, 10/15/1966, NPS-66000216-0000   7L, 03/29/1933, SHL-0105-0000	1794
536912			CLAY ST	MONTEREY	7R, 09/20/2005, 3940-0294- 0000	
537151		227	CLAY ST	MONTEREY	5S3, 09/20/2005, 3940-0148- 0000	1920
537152		233	CLAY ST	MONTEREY	5S3, 09/20/2005, 3940-0149- 0000	1930
537153		241	CLAY ST	MONTEREY	5S3, 09/20/2005, 3940-0150- 0000	1930
536913		251	CLAY ST	MONTEREY	7R, 09/20/2005, 3940-0295- 0000	1962
536914		261	CLAY ST	MONTEREY	7R, 09/20/2005, 3940-0296- 0000	1912
537155		267	CLAY ST	MONTEREY	5S3, 09/20/2005, 3940-0151- 0000	1905
537158		273	CLAY ST	MONTEREY	5S3, 09/20/2005, 3940-0152- 0000	1927
537159		281	CLAY ST	MONTEREY	5S3, 09/20/2005, 3940-0153- 0000	1927
536916		309	CLAY ST	MONTEREY	7R, 09/20/2005, 3940-0297- 0000	1962
536917		317	CLAY ST	MONTEREY	7R, 09/20/2005, 3940-0298- 0000	
536918		333	CLAY ST	MONTEREY	7R, 09/20/2005, 3940-0299- 0000	1912

536919		365	CLAY ST	MONTEREY	7R, 09/20/2005, 3940-0300-0000	1962
537160		383	CLAY ST	MONTEREY	5S3, 09/20/2005, 3940-0154-0000	1908
536921		415	CLAY ST	MONTEREY	7R, 09/20/2005, 3940-0301-0000	1945
536922		421	CLAY ST	MONTEREY	7R, 09/20/2005, 3940-0302-0000	1945
537161		443	CLAY ST	MONTEREY	5S3, 09/20/2005, 3940-0155-0000	1945
537162		451	CLAY ST	MONTEREY	5S3, 09/20/2005, 3940-0156-0000	1920
537163		457	CLAY ST	MONTEREY	5S3, 09/20/2005, 3940-0157-0000	1937
537164		465	CLAY ST	MONTEREY	5S3, 09/20/2005, 3940-0158-0000	1937
537167		479	CLAY ST	MONTEREY	5S3, 09/20/2005, 3940-0159-0000	1920
687673		2	Copa del Oro	Monterey		1938
687674		42	Copa del Oro	Monterey		1957
687675		98	Copa del Oro	Monterey		1949
687676		99	Copa del Oro	Monterey		1951
480183	GARAGE BUILDING #428		CORPORAL CHURCH RD	MONTEREY	6Y, 01/20/1993, USA921019A	1940
422333	BARRACKS #345, BUILDING #204		CORPORAL EVANS RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0089   6Y, 08/30/1986, USA860730Z	1941
422334	BARRACKS #344		CORPORAL EVANS RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0090   6Y, 08/30/1986, USA860730Z	1941
422335	BARRACKS #343, BUILDING #206		CORPORAL EVANS RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0091   6Y, 08/30/1986, USA860730Z	1941

422336	BARRACKS #342		CORPORAL EVANS RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0092   6Y, 08/30/1986, USA860730Z	1941
422346	WATER PUMP BUILDING #65		CORPORAL EVANS RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0093   6Y, 08/30/1986, USA860730Z	1943
422347	BARRACKS #65		CORPORAL EVANS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0010   2D2, 08/30/1986, USA860730Z	1903
422348	BATHHOUSE		CORPORAL EVANS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0011   2D2, 08/30/1986, USA860730Z	1904
422382	BUILDING 304		CORPORAL EVANS RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0133   6Y, 08/30/1986, USA860730Z	1940
422383	BUILDING 113A		CORPORAL EVANS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0117   2D2, 08/30/1986, USA360730Z	1930
422386	BUILDING T223		CORPORAL EVANS RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0131   6Y, 08/30/1986, USA860730Z	1940
422388	BUILDING T222		CORPORAL EVANS RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0132   6Y, 08/30/1986, USA860730Z	1940
422440	BUILDING #254		CORPORAL EVANS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0120   2D2, 08/30/1986, USA860730Z	1929
480184	GARAGE BUILDING #47-6		CORPORAL EVANS RD	MONTEREY	2D2, 01/15/1993, DOE-27-93-0002-0006   2D2, 01/15/1993, USA921019A	
480185	GARAGE BUILDING #113-G		CORPORAL EVANS RD	MONTEREY	6L, 01/20/1993, USA921019A	
422321	BUILDING158, BUILDING 105		CORPORAL EWING RD	MONTEREY	7R, 3940-0142-0008	1922

422322	BUILDING #313		CORPORAL EWING RD	MONTEREY	7R, , 3940-0142-0009	1941
422323	BUILDING #367		CORPORAL EWING RD	MONTEREY	7R, , 3940-0142-0010	1943
422324	BUILDING 117, BUILDING 112		CORPORAL EWING RD	MONTEREY	7R, , 3940-0142-0011	1924
422325	BUILDING 118		CORPORAL EWING RD	MONTEREY	7R, , 3940-0142-0012	1908
422326	BUILDING 155 AND 157, BUILDING 118		CORPORAL EWING RD	MONTEREY	7R, , 3940-0142-0013	1922
422327	BUILDING 160, BUILDING 120		CORPORAL EWING RD	MONTEREY	7R, , 3940-0142-0014	1922
422328	BUILDING 161, BUILDING 121		CORPORAL EWING RD	MONTEREY	7R, , 3940-0142-0015	1923
422329	BUILDING 164, BUILDING 124		CORPORAL EWING RD	MONTEREY	7R, , 3940-0142-0016	1944
422330	BUILDING 165, BUILDING 125		CORPORAL EWING RD	MONTEREY	7R, , 3940-0142-0017	1941
422331	BUILDING 169, BUILDING 141		CORPORAL EWING RD	MONTEREY	7R, , 3940-0142-0018	1931
480177	ARTILLERY STABLES, BUILDING #1578, BUILDING #119		CORPORAL EWING RD	MONTEREY	6L, 01/20/1993, USA921019A	1922
480187	COLD STOR BLDG T-367		CORPORAL EWING RD	MONTEREY	6Y, 01/20/1993, USA921019A	1943
480188	MOTOR POOL WASHRACK BUILDING #163		CORPORAL EWING RD	MONTEREY	6Y, 01/20/1993, USA921019A	1942
496151	BUILDING 105		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86- 0001-0134   6Y, 08/30/1986, USA860730Z	1922
496152	BUILDING 141		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86- 0001-0135   6Y, 08/30/1986, USA860730Z	1931

496153	BUILDING 125		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86- 0001-0136   6Y, 08/30/1986, USA860730Z	1941
496154	BUILDING 124		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86- 0001-0137   6Y, 08/30/1986, USA860730Z	1944
496155	BUILDING 121		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86- 0001-0138   6Y, 08/30/1986, USA860730Z	1923
496156	BUILDING 120		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86- 0001-0139   6Y, 08/30/1986, USA860730Z	1922
496157	BUILDING 104		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86- 0001-0140   6Y, 08/30/1986, USA860730Z   6Y, 12/04/1992, USA921008A   7R, , 3940-0142- 0007	1941
496158	NINO GRAVE MARKER		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86- 0001-0141   6Y, 08/30/1986, USA860730Z   7R, , 3940-0142- 0005	1975
496159	BOUCHARD MONUMENT		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86- 0001-0142   6Y, 08/30/1986, USA860730Z   7R, , 3940-0142- 0006	1979
496160	BUILDING 106		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86- 0001-0143   6Y, 08/30/1986, USA860730Z	1941
496161	BUILDING 110		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86- 0001-0144   6Y, 08/30/1986, USA860730Z	1943
496162	BUILDING 113		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86- 0001-0145   6Y, 08/30/1986, USA860730Z	1908

496163	BUILDING 112		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0146   6Y, 08/30/1986, USA860730Z	1924
496164	BUILDING 118		CORPORAL EWING RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0147   6Y, 08/30/1986, USA860730Z	1922
496165	BUILDING 109, SERRA MONUMENT		CORPORAL EWING RD	MONTEREY	1D, 01/01/1971, 3940-0142-0001   2D2, 08/30/1986, DOE-27-86-0001-0148   2D2, 08/30/1986, USA860730Z	1891
516967		78	CUESTA VISTA DR	MONTEREY	6Y, 02/10/2011, HUD110207J	1962
422192	U S Custom House	20	Custom House Plaza	MONTEREY	1CL, 05/29/2014, CHL_2014_Custom_House_(U_0001   1D, 04/15/1970, NPS-70000137-0016   1S, 10/15/1966, NPS-66000217-0000   1S, 12/19/1960, NHL-66000217-0000   3B, 08/01/1977, 3940-0002-0016   7L, 06/01/1932, SHL-0001-0000	1827
422232	MAIDEN HOUSE	766	DAVID AVE	MONTEREY	7R, , 3940-0052-0000	1949
422233	LOG CABIN	766	DAVID AVE	MONTEREY	7R, , 3940-0053-0000	1918
468269		2098	DAVID ST	MONTEREY	6Y, 09/11/1989, HUD890814C	
422196	WRIGHT ADOBE, OLD WHALING STATION, WHALING STATION	341	DECATUR ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0020   3D, 08/01/1977, 3940-0002-0020	1855
422197	FIRST BRICK HOUSE	351	DECATUR ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0021   3D, 08/01/1977, 3940-0002-0021   3S, 01/01/1981, 629.0-81-HPF-27-01	1847
664193		343	DeLa Vina Ave	MONTEREY	6Y, 03/04/2016, HUD_2016_0303_005	



516059		423	DELA VINA AVE	MONTEREY	6Y, 02/10/2011, HUD110207M	1962
487609		604	DEVISIDERO ST	MONTEREY	6Y, 08/04/1994, HUD940705D	1940
468890		519	DICKMAN AVE	MONTEREY	6Y, 02/01/1990, HUD900105B	
687677		101	Don Dahvee Ln	Monterey		1956
687678		110	Don Dahvee Ln	Monterey		1948
687679		119	Don Dahvee Ln	Monterey		1969
422307	KARAS HOUSE	780	DRY CREEK RD	MONTEREY	7R, , 3940-0128-0000	1965
557652		206	DUNDEE DR	MONTEREY	6Y, 10/16/2002, DOE-27-02-0027-0000   6Y, 10/16/2002, HUD021008C	1947
422177	Governor Alvarado Adobe House	510	DUTRA ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0001   3D, 08/01/1977, 3940-0002-0001   7L, 08/08/1939, SHL-0348-0000	1836
422178	Vasquez Adobe	546	DUTRA ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0002   3D, 08/01/1977, 3940-0002-0002   7L, 10/09/1939, SHL-0351-0000	1840
536923		202	EDDIE BURNS LN	MONTEREY	7R, 09/20/2005, 3940-0303-0000	
516050		6	EL CAMINITO DEL NORTE	MONTEREY	6Y, 05/09/2011, HUD110505E	1953
687680	Gibson House	500	El Dorado St	Monterey		1941
687681	First Presbyterian Church	501	El Dorado St	Monterey		1959
687682		540	El Dorado St	Monterey		1920
687683		580	El Dorado St	Monterey		1926
516056		565	ENGLISH AVE	MONTEREY	6Y, 02/10/2011, HUD110207V   6Y, 07/24/2015, HUD_2015_0723_003   6Y, 09/10/2018, HUD_2018_0910_002	1987

516057		565	ENGLISH AVE	MONTEREY	6Y, 02/10/2011, HUD110207U   6Y, 09/10/2018, HUD_2018_0910_002	1962
667048	Monterey County Fairgrounds Cattle Barn 1	2004	Fairground Rd	Monterey	6YM, 06/07/2016, CAGEN_2016_0310_001	1950
667047	Monterey County Fairgrounds Livestock Office	2004	Fairground Rd	Monterey	6YM, 06/07/2016, CAGEN_2016_0310_001	1950
667058	Monterey County Fairgrounds Cattle Barn 2	2004	Fairground Rd	MONTEREY	6YM, 06/07/2016, CAGEN_2016_0310_001	1950
667059	Monterey County Fairgrounds Cattle Barn 3	2004	Fairground Rd	MONTEREY	6YM, 06/07/2016, CAGEN_2016_0310_001	1950
667060	Monterey County Fairgrounds Cattle Barn 4	2004	Fairground Rd	MONTEREY	6YM, 06/07/2016, CAGEN_2016_0310_001	1950
666476	Pattee Arena	2000	Fairgrounds Rd	Monterey	2S2, 08/04/2016, FCC_2016_0701_003	1939
544039		6	FERN ST	MONTEREY	6Y, 02/10/2011, HUD110207K   6Y, 05/26/2005, HUD050401F	1962
544426	MONTEREY SP PASSENGER DEPOT	290	FIGUEROA ST	MONTEREY	2S2, 05/02/2005, HUD050311B	1890
422255	BALESTERIS WHARF FRONT BUILDING	6	FISHERMANS WHARF #1	MONTEREY	7R, , 3940-0075-0000	
422256	WHARF THEATER BUILDING	89	FISHERMANS WHARF #1	MONTEREY	7R, , 3940-0076-0000	1975
422376	TELEPHONE EXCH		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0033   2D2, 08/30/1986, USA860730Z	1914
422377	QM GARAGE AND POOL		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0034   2D2, 08/30/1986, USA860730Z	1904
422384	OFFICERS QUARTERS		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0039   2D2, 08/30/1986, USA860730Z	1903

422385	OFFICERS QUARTERS		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0040   2D2, 08/30/1986, USA860730Z	1903
422387	OFFICERS QUARTERS		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0041   2D2, 08/30/1986, USA860730Z	
422389	OFFICERS QUARTERS		FITCH AVE	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0126   6Y, 08/30/1986, USA860730Z	1903
422390	OFFICERS QUARTERS		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0152   2D2, 08/30/1986, USA860730Z	1903
422392	OFFICERS QUARTERS		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0042   2D2, 08/30/1986, USA860730Z	1903
422395	OFFICERS QUARTERS		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0044   2D2, 08/30/1986, USA860730Z	1903
422397	OFFICERS QUARTERS		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0045   2D2, 08/30/1986, USA860730Z	1903
422398	OFFICERS QUARTERS		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0046   2D2, 08/30/1986, USA860730Z	1903
422400	OFFICERS QUARTERS		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0047   2D2, 08/30/1986, USA860730Z	1903
422405	BUILDING 38		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0049   2D2, 08/30/1986, USA860730Z	1903
422408	OFFICERS QUARTERS		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0051   2D2, 08/30/1986, USA860730Z	1903

422410	BUILDING 36		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0053   2D2, 08/30/1986, USA860730Z	1903
422411	BUILDING 35		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0054   2D2, 08/30/1986, USA860730Z	1903
422413	BUILDING 34		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0055   2D2, 08/30/1986, USA860730Z	1903
422414	BUILDING 33		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0056   2D2, 08/30/1986, USA860730Z	1903
422416	BUILDING 32		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0057   2D2, 08/30/1986, USA860730Z	1903
422418	BUILDING 317		FITCH AVE	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0104   6Y, 08/30/1986, USA860730Z	1943
422421	BUILDING 23		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0058   2D2, 08/30/1986, USA860730Z	1903
422422	BUILDING 24		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0059   2D2, 08/30/1986, USA860730Z	1903
422424	BUILDING 25		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0061   2D2, 08/30/1986, USA860730Z	1903
422425	BUILDING 26		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0062   2D2, 08/30/1986, USA860730Z	1903
422427	BUILDING 27		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0063   2D2, 08/30/1986, USA860730Z	1903

422431	BUILDING 28		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0066   2D2, 08/30/1986, USA860730Z	1903
422435	BUILDING 30		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0070   2D2, 08/30/1986, USA860730Z	1903
422437	BUILDING 31 A & B		FITCH AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0071   2D2, 08/30/1986, USA860730Z	1903
422352	POST EXCHANGE BLDG T162		FORT MERVINE PL	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0094   6Y, 08/30/1986, USA860730Z	1941
422353	CLOTHING ISSUE BUILDING 355, BUILDING 231		FORT MERVINE PL	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0095   6Y, 08/30/1986, USA860730Z	1941
422355	PROCESSING BUILDING 353, BUILDING 233		FORT MERVINE PL	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0097   6Y, 08/30/1986, USA860730Z	1941
480181	POST EXCHANGE SERVICE STAT'N BLDG #173, SVCE STAT'N		FORT MERVINE PL	MONTEREY	6L, 01/20/1993, USA921019A	1941
480182	TENNIS COURT BUILDING #176, TENNIS COURT BUILDING		FORT MERVINE PL	MONTEREY	2D2, 01/15/1993, DOE-27-93-0002-0005   2D2, 01/15/1993, USA921019A	1938
422351	BUILDING 272		FORT MERVINE PLAZA	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0014   2D2, 08/30/1986, USA860730Z	1934
422236	COOPER HOUSE	1608	FRANKLIN ST	MONTEREY	3S, , 3940-0056-0000	1914
422292	BLAZER DEVELOPMENT COMPANY, PROFESSIONAL BUILDING	201	FRANKLIN ST	MONTEREY	3S, , 3940-0113-0000	1928
536828		504	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0304-0000	1962

537168		530	FRANKLIN ST	MONTEREY	5S1, 09/20/2005, 3940-0160-0000	1911
537169		541	FRANKLIN ST	MONTEREY	5S3, 09/20/2005, 3940-0161-0000	1926
537172		560	FRANKLIN ST	MONTEREY	5S3, 09/20/2005, 3940-0162-0000	1907
536829		598	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0305-0000	
536830		599	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0306-0000	1962
536831		611	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0307-0000	1905
537173		632	FRANKLIN ST	MONTEREY	5S3, 09/20/2005, 3940-0163-0000	1908
536832		650	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0308-0000	1962
536833		661	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0309-0000	1962
536834		682	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0310-0000	1926
537174		698	FRANKLIN ST	MONTEREY	5S3, 09/20/2005, 3940-0164-0000	1908
537175		702	FRANKLIN ST	MONTEREY	5S3, 09/20/2005, 3940-0165-0000	1908
537177		716	FRANKLIN ST	MONTEREY	5S3, 09/20/2005, 3940-0166-0000	1913
536835		732	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0311-0000	1926
536836		739	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0312-0000	
537179		759	FRANKLIN ST	MONTEREY	5S3, 09/20/2005, 3940-0167-0000	1905
536837		766	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0313-0000	1926

536838		782	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0314-0000	
536839		783	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0315-0000	
536840		799	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0316-0000	
536841		800	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0317-0000	1962
536842		832	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0318-0000	1962
536843		833	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0319-0000	
536844		860	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0320-0000	
536845		867	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0321-0000	1912
537180		882	FRANKLIN ST	MONTEREY	5S3, 09/20/2005, 3940-0168-0000	
536846		895	FRANKLIN ST	MONTEREY	7R, 09/20/2005, 3940-0322-0000	1936
537181		898	FRANKLIN ST	MONTEREY	5S3, 09/20/2005, 3940-0169-0000	1908
537182		899	FRANKLIN ST	MONTEREY	5S3, 09/20/2005, 3940-0170-0000	
687684	Mercedes Benz of Monterey	498	Fremont St	Monterey		1926
687685	Mercedes Benz of Monterey	512	Fremont St	Monterey		1956
687686		520	Fremont St	Monterey		1954
687687	Bovine Strength Systems	524	Fremont St	Monterey		1926
687688	Boyd Busby Lamps	536	Fremont St	Monterey		1926
687689		552	Fremont St	Monterey		1926
687690		560	Fremont St	Monterey		1947
687691	Diocesan Archives & Tribunal	580	Fremont St	Monterey		1926

687692		590	Fremont St	Monterey		1925-1935
422310	MONTEREY PENINSULA COLLEGE	900	FREMONT ST	MONTEREY	7R, 3940-0131-9999	1968
422313	McGRAW HILL CTB	2500	GARDEN RD	MONTEREY	7R, 3940-0135-0000	1974
422312	FAT CITY CORPORATION AUTOLEASE	2711	GARDEN RD	MONTEREY	7R, 3940-0134-0000	1971
678370	Park Lane Senior Living Apartments	200	Glenwood Cir	Monterey	2S2, 07/05/2019,   2S2, 10/28/2016, FCC_2016_0930_003	1967
659502		300	GLENWOOD CIR	MONTEREY	6Y, 07/24/2015, HUD_2015_0723_001	1972
656869		300	GLENWOOD CIR #150	MONTEREY	6Y, 10/22/2014,	
668739		300	Glenwood Cr #153	Monterey	6Y, 08/23/2016, HUD_2016_0922_004	1970
668740		300	Glenwood Cr #293	MONTEREY	6Y, 08/23/2016, HUD_2016_0922_004	1970
422301	PETERS GATE		GROVE ST	MONTEREY	3S, 3940-0122-0000	1900
469218	BUILDING REHABILITATION	449	HANNON AVE	MONTEREY	6Y, 02/07/1990, HUD9000116D	
521514		320	HANNON ST	MONTEREY	6Y, 02/25/2009, HUD090126G	1946
422191	STOKES ADOBE	500	HARTNELL ST	MONTEREY	1D, 04/15/1970, NPS-70000137- 0015   3D, 08/01/1977, 3940- 0002-0015	1830
422219	GENERAL FREMONT'S HEADQUARTERS	539	HARTNELL ST	MONTEREY	2S2, 09/12/2007, HUD070817E   3S, 3940-0038-0000   7K, 04/23/1999, DOE-27-99-0002- 0000   7K, 04/23/1999, HUD990329J	1849
422299	PACEO ZABALA	550	HARTNELL ST	MONTEREY	7R, 3940-0120-0000	1972
422293	MONTEREY POST OFFICE	565	HARTNELL ST	MONTEREY	3S, 3940-0114-0000	1932
525649	FIRST BABTIST CHURCH OF MONTEREY	600	HAWTHORNE ST	MONTEREY	6Y, 07/01/2008, FCC080530B	1949
536847		816	HELLAM ST	MONTEREY	7R, 09/20/2005, 3940-0323- 0000	1962



536848		832	HELLAM ST	MONTEREY	7R, 09/20/2005, 3940-0324-0000	
536849		833	HELLAM ST	MONTEREY	7R, 09/20/2005, 3940-0325-0000	1912
536850		851	HELLAM ST	MONTEREY	7R, 09/20/2005, 3940-0326-0000	1912
537184		866	HELLAM ST	MONTEREY	5S3, 09/20/2005, 3940-0171-0000	1908
536851		867	HELLAM ST	MONTEREY	7R, 09/20/2005, 3940-0327-0000	1926
536852		882	HELLAM ST	MONTEREY	7R, 09/20/2005, 3940-0328-0000	1926
536853		883	HELLAM ST	MONTEREY	7R, 09/20/2005, 3940-0329-0000	1912
468657		940	HELLAM ST	MONTEREY	6Y, 03/04/1988, HUD8880309U	
536857		14	HERMANN DR	MONTEREY	7R, 09/20/2005, 3940-0333-0000	
536854		2	HERMANN DR	MONTEREY	7R, 09/20/2005, 3940-0330-0000	
550039		29	HERMANN DR	MONTEREY	6Y, 03/24/2004, DOE-27-04-0007-0000   6Y, 03/24/2004, FHWA040223A	1949
536855		6	HERMANN DR	MONTEREY	7R, 09/20/2005, 3940-0331-0000	
536856		7	HERMANN DR	MONTEREY	7R, 09/20/2005, 3940-0332-0000	1920
690652	The Monterey Clinic   Community Hospital of the Mont	23625	Holman Hwy	Monterey	2S2, 02/27/2020, FCC_2020_0124_002	1962
422208	ROBERT LOUIS STEVENSON HOUSE   GONZALES HOUSE	530	HOUSTON ST	MONTEREY	1S, 01/01/1972, 3940-0010-0000   1S, 01/07/1972, NPS-72000239-0000   7L, 10/09/1939, SHL-0352-0000	1830

422337	ASSEMBLY HALL BUILDING 132, BUILDING 208		INFANTRY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86- 0001-0001   2D2, 08/30/1986, USA860730Z	1910
422338	BARRACKS #49		INFANTRY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86- 0001-0002   2D2, 08/30/1986, USA860730Z	1903
422339	BARRACKS #51		INFANTRY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86- 0001-0003   2D2, 08/30/1986, USA860730Z	1903
422340	BARRACKS #53		INFANTRY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86- 0001-0004   2D2, 08/30/1986, USA860730Z	1903
422341	BARRACKS #55		INFANTRY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86- 0001-0005   2D2, 08/30/1986, USA860730Z	1903
422342	BARRACKS #57		INFANTRY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86- 0001-0006   2D2, 08/30/1986, USA860730Z	1903
422343	BARRACKS #57		INFANTRY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86- 0001-0007   2D2, 08/30/1986, USA860730Z	1903
422344	BARRACKS #61		INFANTRY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86- 0001-0008   2D2, 08/30/1986, USA860730Z	1903
422345	BARRACKS #63		INFANTRY ST	MONTEREY	2D2, 08/30/1986, DOE-27-86- 0001-0009   2D2, 08/30/1986, USA860730Z	1903
422356	INDUCTION BUILDING 352, BULLING 234		INFANTRY ST	MONTEREY	6Y, 08/30/1986, DOE-27-86- 0001-0098   6Y, 08/30/1986, USA860730Z	1941
480179	PROCESSING BUILDING #T-353		INFANTRY ST	MONTEREY	6L, 01/20/1993, USA921019A	1941
480180	PROCESSING BUILDING #T-353, PRINTING DIVISION BUIL		INFANTRY ST	MONTEREY	6L, 01/20/1993, USA921019A	1941

536858		560	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0334-0000	1926
537185		580	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0172-0000	1920
537186		599	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0173-0000	1890
536859		630	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0335-0000	
536860		641	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0336-0000	1962
536861		670	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0337-0000	
536862		675	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0338-0000	
537188		680	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0174-0000	1930
537189		698	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0175-0000	1928
536863		700	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0339-0000	1926
536864		725	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0340-0000	1926
536865		750	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0341-0000	1926
537190		761	JEFFERSON ST	MONTEREY	5S1, 09/20/2005, 3940-0176-0000	
536866		766	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0342-0000	
536867		783	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0343-0000	1912
536868		799	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0344-0000	
537191		801	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0177-0000	1926

536869		825	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0345-0000	
536870		832	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0346-0000	
536871		835	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0347-0000	1962
537193		845	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0178-0000	1896
537194		850	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0179-0000	1930
537196		857	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0180-0000	1925
537197		866	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0181-0000	1939
536872		867	JEFFERSON ST	MONTEREY	7R, 09/20/2005, 3940-0348-0000	1926
537198		877	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0182-0000	1930
537199		882	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0183-0000	1930
537200		889	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0184-0000	1930
537219		898	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0185-0000	1930
537222		899	JEFFERSON ST	MONTEREY	5S3, 09/20/2005, 3940-0186-0000	1930
680721		139	John St	Monterey	6Y, 09/27/2013, HUD_2013_0926_003	1962
536873		807	JOHNSON ST	MONTEREY	7R, 09/20/2005, 3940-0349-0000	1962
536874		835	JOHNSON ST	MONTEREY	7R, 09/20/2005, 3940-0350-0000	
536875		845	JOHNSON ST	MONTEREY	7R, 09/20/2005, 3940-0351-0000	1962

536876		867	JOHNSON ST	MONTEREY	7R, 09/20/2005, 3940-0352-0000	1970
537223		877	JOHNSON ST	MONTEREY	5S3, 09/20/2005, 3940-0187-0000	1927
537224		889	JOHNSON ST	MONTEREY	5S3, 09/20/2005, 3940-0188-0000	1920
536877		899	JOHNSON ST	MONTEREY	7R, 09/20/2005, 3940-0353-0000	1962
540935	AVE MARIA CONVALESCENT HOSPITAL	1249	JOSELYN CANYON RD	MONTEREY	6Y, 11/16/2005, FCC0511151	1954
422354	INDUCTION CENTER BUILDING 354, BUILDING 232		KIT CARSON PLAZA	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0096   6Y, 08/30/1986, USA860730Z	1941
422358	ORDINANCE STOREHOUSE		KIT CARSON RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0016   2D2, 08/30/1986, USA860730Z	1929
422361	ORDNANCE STOREHOUSE BUILDING 179, BUILDING 257		KIT CARSON RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0019   2D2, 08/30/1986, USA860730Z	1932
422419	BUILDING 315		KIT CARSON RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0105   6Y, 08/30/1986, USA860730Z	1943
538247	NEW MONTEREY BAPTIST CHURCH	698	LAINE ST	MONTEREY	6Y, 01/22/2006, FCC051230H	1912
507105	BRIDGE #44C-82		LARKIN ST	MONTEREY	2S2, 10/19/1986, DOE-27-86-0002-0000   2S2, 10/19/1986, FHWA860919Z	1914
537268		1950	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0388-0000	1950
536732		210	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0354-0000	
536734		211	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0355-0000	1936

537225		218	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0189-0000	1907
536735		219	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0356-0000	1936
536736		226	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0357-0000	1912
536737		227	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0358-0000	1936
536900		235	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0359-0000	1950
536901		236	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0360-0000	1926
537226		244	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0190-0000	1937
537227		245	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0191-0000	1930
536903		254	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0361-0000	
536904		255	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0362-0000	
536905		262	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0363-0000	1950
536906		267	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0364-0000	1950
537228		272	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0192-0000	1927
537229		282	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0193-0000	
536773		283	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0365-0000	1950
537230		290	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0194-0000	1908
537033		291	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0195-0000	1937

537035		298	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0196-0000	1907
537036		299	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0197-0000	1937
536774		300	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0366-0000	1912
537042		301	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0198-0000	1935
537043		309	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0199-0000	1904
537044		316	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0200-0000	1911
536775		317	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0367-0000	
536776		322	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0368-0000	
536777		332	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0369-0000	1925
536778		333	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0370-0000	
536779		342	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0371-0000	
536781		343	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0372-0000	1912
537045		359	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0201-0000	1930
537046		366	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0202-0000	1892
536808		379	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0405-0000	1970
537047		382	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0203-0000	1915
536783		384	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0373-0000	

537048		394	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0204-0000	1927
537049		404	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0205-0000	
536786		414	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0374-0000	
536787		419	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0375-0000	
537051		428	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0206-0000	1912
537254		429	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0376-0000	1936
537255		431	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0377-0000	1950
537256		434	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0378-0000	
537052		442	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0207-0000	1895
537257		445	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0379-0000	
537258		450	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0380-0000	1892
537259		456	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0381-0000	
537261		459	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0382-0000	
537262		463	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0383-0000	
537263		464	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0384-0000	1940
537264		469	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0385-0000	
537265		472	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0386-0000	



537053		475	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0208-0000	1893
537267		478	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0387-0000	1915
537054		479	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0209-0000	1901
537269		492	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0389-0000	
537270		502	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0390-0000	
537055		504	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0210-0000	1906
537271		514	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0391-0000	1912
536795		522	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0392-0000	1926
537057		527	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0211-0000	1890
536796		532	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0393-0000	1912
536797		536	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0394-0000	1962
536798		537	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0395-0000	
537058		545	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0212-0000	1890
536799		554	LARKIN ST	MONTEREY	7R, 09/02/2005, 3940-0396-0000	
537059		555	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0213-0000	1936
537060		562	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0214-0000	1927
536800		563	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0397-0000	

537061		570	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0215-0000	1902
536801		573	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0398-0000	
537063		576	LARKIN ST	MONTEREY	3CS, 09/20/2005, 3940-0216-0000	1908
536802		602	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0399-0000	1926
537064		610	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0217-0000	1928
550040		612	LARKIN ST	MONTEREY	5S3, 09/20/2005, 3940-0218-0000   6Y, 03/24/2004, DOE-27-04-0008-0000   6Y, 03/24/2004, FHWA040223A	1928
536803		641	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0400-0000	
536804		643	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0401-0000	1936
536805		651	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0402-0000	1936
536806		653	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0403-0000	1926
536807		661	LARKIN ST	MONTEREY	7R, 09/20/2005, 3940-0404-0000	
550037		671	LARKIN ST	MONTEREY	6Y, 03/24/2004, DOE-27-04-0005-0000   6Y, 03/24/2004, FHWA040223A   7R, 09/20/2005, 3940-0407-0000	1928
550038		699	LARKIN ST	MONTEREY	6Y, 03/24/2004, DOE-27-04-0006-0000   6Y, 03/24/2004, FHWA040223A	1926
422441	BUILDING #T182		LAWTON RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0111   6Y, 08/30/1986, USA860730Z	1940

422442	BUILDING #T225		LAWTON RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0121   2D2, 08/30/1986, USA860730Z	1930
422446	BUILDING #74		LAWTON RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0076   2D2, 08/30/1986, USA860730Z	1930
422449	BUILDING #T183		LAWTON RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0079   2D2, 08/30/1986, USA860730Z	1930
422450	BUILDING #T123		LAWTON RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0122   2D2, 08/30/1986, USA860730Z   6Y, 01/10/1993, USA921019A   6Y, 01/19/2000, DOE-27-00-003-0000   6Y, 01/19/2000, USA991222A	1943
546988		253	LERWICK DR	MONTEREY	6Y, 07/29/2004, DOE-27-04-0054-0000   6Y, 07/29/2004, HUDD040712D	1940
422443	BUILDING #73.5		LEWIS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0073   2D2, 08/30/1986, USA860730Z	1922
422444	BUILDING #83		LEWIS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0074   2D2, 08/30/1986, USA860730Z	1903
422445	BUILDING #84		LEWIS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0075   2D2, 08/30/1986, USA860730Z	1903
422447	BUILDING #85		LEWIS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0077   2D2, 08/30/1986, USA860730Z	1903
422448	BUILDING #86		LEWIS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0078   2D2, 08/30/1986, USA860730Z	1903

422451	BUILDING #87		LEWIS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0080   2D2, 08/30/1986, USA860730Z	1903
422452	BUILDING #86		LEWIS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0081   2D2, 08/30/1986, USA860730Z	1922
422453	BUILDING #84		LEWIS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0082   2D2, 08/30/1986, USA860730Z	1922
422454	BUILDING #T142		LEWIS RD	MONTEREY	2D2, 01/15/1993, DOE-27-93-0002-0004   2D2, 01/15/1993, USA921019A   6Y, 08/30/1986, DOE-27-86-0001-0112   6Y, 08/30/1986, USA860730Z	1940
422455	BUILDING #84		LEWIS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0083   2D2, 08/30/1986, USA860730Z	1922
422456	BUILDING #83		LEWIS RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0113   6Y, 08/30/1986, USA860730Z	1940
422457	BUILDING #83		LEWIS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0084   2D2, 08/30/1986, USA860730Z	1922
478806	GARAGE		LEWIS RD	MONTEREY	2D2, 01/15/1993, DOE-27-93-0002-0002   2D2, 01/15/1993, USA921019A	1940
422467	PRESIDIO OF MONTEREY		LIGHTHOUSE AVE	MONTEREY	2B, 01/01/1986, 3940-0143-9999	1902-1939
470752	BUILDING #308 MONTEREY HARBOR		LIGHTHOUSE AVE	MONTEREY	6Y, 01/21/1988, USCG880107A	
422231	MRS. A. E. GREENE RESIDENCE	301	LIGHTHOUSE AVE	MONTEREY	3S, , 3940-0051-0000	1899
422230	HARRY GREENE MANSION, CONSUELOS	361	LIGHTHOUSE AVE	MONTEREY	3S, , 3940-0050-0000	1886

568686		543	LIGHTHOUSE AVE	MONTEREY	2S2, 12/05/2001, DOE-27-01- 0007-0000   2S2, 12/05/2001, HUDD011015G	1904
469307		872	LOMITA	MONTEREY	6Y, 03/22/1990, HUD900226N	
521515		891	LOTTIE ST	MONTEREY	6Y, 02/25/2009, HUD090126F	1949
516062		665	LYNDON ST	MONTEREY	6Y, 02/10/2011, HUDD110207S	1962
422182	UNDERWOOD BROWN ADOBE		MADISON ST	MONTEREY	1D, 04/15/1970, NPS-70000137- 0006   3D, 08/01/1977, 3940- 0002-0006	
422295	MONTEREY PUBLIC LIBRARY		MADISON ST	MONTEREY	5S2, 3940-0116-0000	1951
536628		521	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0408- 0000	
537066		540	MADISON ST	MONTEREY	5S3, 09/20/2005, 3940-0219- 0000	1932
536810		555	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0409- 0000	
537067		560	MADISON ST	MONTEREY	5S3, 09/20/2005, 3940-0220- 0000	1890
536811		571	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0410- 0000	1962
536812		598	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0411- 0000	1905
536813		602	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0412- 0000	1912
537068		660	MADISON ST	MONTEREY	5S3, 09/20/2005, 3940-0221- 0000	1910
536814		661	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0413- 0000	1962
537069		681	MADISON ST	MONTEREY	3S, 09/20/2005, 3940-0222- 0000	1932
536815		698	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0414- 0000	1926

537070		699	MADISON ST	MONTEREY	5S3, 09/20/2005, 3940-0223-0000	
537071		701	MADISON ST	MONTEREY	5S3, 09/20/2005, 3940-0224-0000	1930
536816		717	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0415-0000	1930
537072		733	MADISON ST	MONTEREY	5S3, 09/20/2005, 3940-0225-0000	1930
536817		765	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0416-0000	1962
536818		765	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0417-0000	
536819		767	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0418-0000	
536820		769	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0419-0000	
536821		805	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0420-0000	
536822		844	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0421-0000	1926
537073		877	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0226-0000	1884
536823		878	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0422-0000	
536824		898	MADISON ST	MONTEREY	7R, 09/20/2005, 3940-0423-0000	
687693		805	Major Sherman Ln	Monterey		
687694		805	Major Sherman Ln	Monterey		1910
687696		901	Major Sherman Ln	Monterey		1927
422306	MONTE VISTA APARTMENTS	114	MAR VISTA DR	MONTEREY	5S2, 3940-0127-0000	1963

435487		116	MAR VISTA DR	MONTEREY	6Y, 07/24/2015,	1959
498045	SANTA CATALINA SCHOOL FOR GIRLS, WITHOUT THE 'HACI		MARK THOMAS DR	MONTEREY	6Y, 01/19/1996, DOE-27-96-0002-0000   6Y, 01/19/1996, FHWA951115A	1953-1980
498046	ADMINISTRATION BUILDING- SANTA CATALINA SCHOOL FOR		MARK THOMAS DR	MONTEREY	2S2, 01/19/1996, DOE-27-96-0003-0000   2S2, 01/19/1996, FHWA951115A	1930-1938
422227	ST JOHNS EPISCOPAL CHAPEL	1490	MARK THOMAS DR	MONTEREY	3S, , 3940-0047-0000	1890
478804	WATER TANK, BUILDING #195		MASON RD	MONTEREY	6Y, 01/20/1993, USA921019A	1936
422204	CASA BUELNA	801	MESA RD	MONTEREY	3S, , 3940-0005-0000	1821
422211	SHERMAN ROSE ADOBE, CASA BONIFACIO	949	MESA RD	MONTEREY	3S, , 3940-0015-0000	1835
687698	Pierce, Lucy Valentine, House	954	Mesa Rd	Monterey		1923
687697		954	Mesa Rd	Monterey		1954
687699		955	Mesa Rd	Monterey		1958
687700		976	Mesa Rd	Monterey		1927
469980	POOLHOUSE - OLD DEL MONTE HOTEL		MIDDLE RD	MONTEREY	2D2, 05/25/1990, DOE-27-90-0002-0012   2D2, 05/25/1990, USN900426A	
513735	OLD DEL MONTE HOTEL DISTRICT		MIDDLE RD	MONTEREY	2S2, 05/25/1990, DOE-27-90-0002-9999   2S2, 05/25/1990, USN900426A   7W, 10/17/1994, 27-0016	1880-1926
513736	Del Monte Hotel, HERRMANN HALL		MIDDLE RD	MONTEREY	2D2, 05/25/1990, DOE-27-90-0002-0001   2D2, 05/25/1990, USN900426A   3S, , 3940-0132-0000   7W, 12/19/1994, 27-0016	1880-1926
513737	MAIN RESIDENCE		MIDDLE RD	MONTEREY	2D2, 05/25/1990, DOE-27-90-0002-0002   2D2, 05/25/1990, USN900426A	1880-1926

513738	COTTAGE		MIDDLE RD	MONTEREY	2D2, 05/25/1990, DOE-27-90-0002-0003   2D2, 05/25/1990, USN900426A	
513739	COTTAGE		MIDDLE RD	MONTEREY	2D2, 05/25/1990, DOE-27-90-0002-0004   2D2, 05/25/1990, USN900426A	
513740	COTTAGE		MIDDLE RD	MONTEREY	2D2, 05/25/1990, DOE-27-90-0002-0005   2D2, 05/25/1990, USN900426A	
513741	COTTAGE		MIDDLE RD	MONTEREY	2D2, 05/25/1990, DOE-27-90-0002-0006   2D2, 05/25/1990, USN900426A	
513742	COTTAGE		MIDDLE RD	MONTEREY	2D2, 05/25/1990, DOE-27-90-0002-0007   2D2, 05/25/1990, USN900426A	
513743	COTTAGE		MIDDLE RD	MONTEREY	2D2, 05/25/1990, DOE-27-90-0002-0008   2D2, 05/25/1990, USN900426A	
513744	COTTAGE		MIDDLE RD	MONTEREY	2D2, 05/25/1990, DOE-27-90-0002-0009   2D2, 05/25/1990, USN900426A	
513745	COTTAGE		MIDDLE RD	MONTEREY	2D2, 05/25/1990, DOE-27-90-0002-0010   2D2, 05/25/1990, USN900426A	
513746	POOL		MIDDLE RD	MONTEREY	2D2, 05/25/1990, DOE-27-90-0002-0011   2D2, 05/25/1990, USN900426A   7J, 09/20/2001, DOE-27-01-0003-0000   7J, 09/20/2001, USN010820A	1916
536825		201	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0424-0000	
537074		225	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0227-0000	1905



536827		227	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0425-0000	
537075		232	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0228-0000	1938
536629		234	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0426-0000	1926
537076		241	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0229-0000	1930
536630		250	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0427-0000	1912
536631		253	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0428-0000	1905
536632		256	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0429-0000	1912
536633		263	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0430-0000	
536634		264	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0431-0000	1912
537077		275	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0230-0000	1906
536635		278	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0432-0000	1912
536636		286	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0433-0000	1912
537078		287	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0231-0000	1932
536637		298	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0434-0000	1926
536638		299	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0435-0000	1912
536639		301	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0436-0000	1912
536640		307	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0437-0000	1912

536641		310	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0438-0000	1912
536642		315	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0439-0000	1926
536643		318	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0440-0000	1912
537079		323	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0232-0000	1925
537080		326	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0233-0000	1908
536644		331	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0441-0000	
537081		335	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0234-0000	1937
536645		347	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0442-0000	1926
536646		351	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0443-0000	1926
536647		354	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0444-0000	
537082		355	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0235-0000	1924
537083		371	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0236-0000	1924
537084		372	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0237-0000	1908
537085		377	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0238-0000	1932
537086		382	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0239-0000	1907
536648		393	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0445-0000	
537087		402	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0240-0000	1922

422316	JAMES W. FINCH HOUSE	410	MONROE ST	MONTEREY	1S, 01/01/1982, 3940-0138-0000   1S, 09/20/2005, 3940-0242-0000   1S, 10/19/1982, NPS-82000974-0000   3S, , 3940-0054-0000   7K, 04/23/1999, DOE-27-99-0004-0000   7K, 04/23/1999, HUD990329L	1870
536649		421	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0446-0000	
536650		427	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0447-0000	
536651		428	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0448-0000	1962
536652		431	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0449-0000	1912
536653		441	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0450-0000	
536654		442	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0451-0000	
536655		450	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0452-0000	1962
536958		453	MONROE ST	MONTEREY	5D3, 09/20/2005, 3940-0243-0000	1908
536959		456	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0244-0000	1908
536656		461	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0453-0000	1962
536657		466	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0455-0000	
536658		469	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0456-0000	
536659		472	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0457-0000	

536660		478	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0458-0000	
536661		481	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0459-0000	
536662		486	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0460-0000	
536961		487	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0245-0000	1930
536663		490	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0461-0000	1912
536664		492	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0462-0000	
536665		498	MONROE ST	MONTEREY	7R, 09/20/2005, 3940-0463-0000	
536962		499	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0246-0000	1932
536963		529	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0247-0000	1908
536964		543	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0248-0000	1911
536966		560	MONROE ST	MONTEREY	5S3, 09/20/2005, 3940-0249-0000	1907
664252		242	Montecito Ave	Monterey	6Y, 04/08/2016, HUD_2016_0406_006   6Y, 08/13/2014, HUD_2014_0811_041	1983
498048	STALICH RESIDENCE	1014	MONTEREY RD	MONTEREY	2S2, 01/19/1996, DOE-27-96-0005-0000   2S2, 01/19/1996, FHWA951115A	1941
498050	TORO PLACE GAS STATION COMPLEX	663	MONTEREY RD	MONTEREY	2S2, 01/19/1996, DOE-27-96-0007-0000   2S2, 01/19/1996, FHWA951115A	1930

498049	JEFFERSON'S HOUSE	715	MONTEREY RD	MONTEREY	6Y, 01/19/1996, DOE-27-96-0006-0000   6Y, 01/19/1996, FHWA951115A	1920
422201	MONTEREY OLD TOWN HISTORIC DISTRICT, MONTEREY OLD		MUNRAS AVE	MONTEREY	1S, 04/15/1970, NHL-70000137-9999   1S, 04/15/1970, NPS-70000137-9999   3S, 08/01/1977, 3940-0002-9999	1776-1850
422297	DEL MONTE SHOPPING CENTER		MUNRAS AVE	MONTEREY	7R, , 3940-0118-0000	1966
677915	Del Monte Shopping Center, Munras Ave Overlook	1340	Munras Ave	Monterey	6Y, 06/09/2014, FCC_2014_0505_005	1967
422188	COOPER-MOLERA ADOBE	506	MUNRAS AVE	MONTEREY	1D, 04/15/1970, NPS-70000137-0012   3D, 08/01/1977, 3940-0002-0012   3S, 01/01/1975, 629.0-75-HPF-27-01	1826
422203	CASA MUNRAS	700	MUNRAS AVE	MONTEREY	3S, , 3940-0004-0000	1820
690949	Monterey Municipal Wharf 1 Old Fisherman's Wharf		Olivier St	Monterey	2S2, 04/09/2020, COE_2020_0309_001	1850
548995	COLE HOUSE & DUARTE STORE	220	OLIVIER ST	MONTEREY	7J, 09/13/2004, 537.9-27-0002	1856
422194	HOUSE OF GOLD; CASA DEL ORO	230	OLIVIER ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0018   3D, 08/01/1977, 3940-0002-0018   7L, 03/07/1955, SHL-0532-0000	1845
422181	Colton Hall		PACIFIC ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0005   3D, 08/01/1977, 3940-0002-0005   7K, 04/05/1995, DSA-27-SPS-3070   7L, 01/31/1934, SHL-0126-0000	1847
422195	Californias First Theater		PACIFIC ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0019   3D, 08/01/1977, 3940-0002-0019   7L, 01/31/1934, SHL-0136-0000	1846
422222	OLD MONTEREY JAIL		PACIFIC ST	MONTEREY	3S, , 3940-0042-0000	1854

422294	FEW MEMORIAL HALL OF RECORDS		PACIFIC ST	MONTEREY	35, , 3940-0115-0000	1934
422296	MONTEREY HERALD BUILDING		PACIFIC ST	MONTEREY	5S2, , 3940-0117-0000	1953
422212	Soberanes Adobe; Casa Soberanes	336	PACIFIC ST	MONTEREY	2S2, 01/01/1980, 3940-0019-0000   7L, 09/11/1959, SHL-0712-0000	1839
422220	JOSIAH MERRITT ADOBE   MERRITT HOUSE	386	PACIFIC ST	MONTEREY	1S, 01/01/1977, 3940-0039-0000   1S, 11/22/1977, NPS-77000311-0000	1852
422290	MONTEREY FIRST PRESBYTERIAN CHURCH, SCIENCE OF MIN	398	PACIFIC ST	MONTEREY	3S, , 3940-0111-0000	1910
422209	LA VALLEE ADOBE, CAPITULAR HALL	400	PACIFIC ST	MONTEREY	3S, , 3940-0013-0000   6Y, 08/31/2007, HUD070817D	
422215	CASA SERRANO	412	PACIFIC ST	MONTEREY	2S2, 04/28/2003, DOE-27-03-0008-0000   2S2, 04/28/2003, HUD030310U   3S, , 3940-0027-0000	1843
422298	CASA FUENTE	434	PACIFIC ST	MONTEREY	7R, , 3940-0119-0000	1966
528309	J.E. FREEMAN MORTUARY BUILDING	559	PACIFIC ST	MONTEREY	6Y, 01/07/2008, HUD071224B	1929
489867		216	PARK AVE	MONTEREY	6Y, 11/28/1994, HUD941007A	1935
422349	BOWLING ALLEY		PATTON AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0012   2D2, 08/30/1986, USA860730Z	1908
422350	POST EXCHANGE		PATTON AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0013   2D2, 08/30/1986, USA860730Z	1904
422359	ORDINANCE STORAGE BUILDING #7		PATTON AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0017   2D2, 08/30/1986, USA860730Z	1904
422360	ORDNANCE STOREHOUSE BUILDING #7		PATTON AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0018   2D2, 08/30/1986, USA860730Z	1904

422363	OIL STOREHOUSE BLDG 104		PATTON AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0021   2D2, 08/30/1986, USA860730Z	1904
422364	GUARD HOUSE BUILDING #8		PATTON AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0022   2D2, 08/30/1986, USA860730Z	1903
664194		590	PEARL ST	MONTEREY	6Y, 03/04/2016, HUD_2016_0303_005   6Y, 09/11/2017, HUD_2017_0911_004	
467881		608	PEARL ST	MONTEREY	6Y, 03/07/1989, HUD890210B	
422187	JUAN BAUTISTA ALVARADO ABOBE #2, BANK OF AMERICA	71	PEARL ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0011   3D, 08/01/1977, 3940-0002-0011	1835
422218	LARA ADOBE, CASA JESUS SOTO	460	PIERCE ST	MONTEREY	3S, , 3940-0036-0000	1849
422179	CASA DE LA TORRE	502	PIERCE ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0003   3D, 08/01/1977, 3940-0002-0003	1852
422180	GORDON HOUSE	526	PIERCE ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0004   3D, 08/01/1977, 3940-0002-0004	1849
571781	CHAPPEL HOUSE	798	PINE ST	MONTEREY	2S2, 04/23/1999, DOE-27-99-0003-0000   2S2, 04/23/1999, HUD990329K	1937-1938
422365	COMMISSARY		PLUMMER ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0023   2D2, 08/30/1986, USA860730Z	1903
422366	QM STOREHSE		PLUMMER ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0024   2D2, 08/30/1986, USA860730Z	1903
422369	STORAGE BUILDING 15, BUILDING 271		PLUMMER ST	MONTEREY	6Y, 08/30/1986, USA860730Z   6Y, 08/30/1996, DOE-27-86-0001-0099	1940

422370	SERVICE CLUB		PLUMMER ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0027   2D2, 08/30/1986, USA860730Z	1922
422371	BARRACKS 12, BUILDING 273		PLUMMER ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0028   2D2, 08/30/1986, USA860730Z	1903
422372	BARRACKS 14, BUILDING 274		PLUMMER ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0029   2D2, 08/30/1986, USA860730Z	1903
422373	BARRACKS 16, BUILDING 275		PLUMMER ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0030   2D2, 08/30/1986, USA860730Z	1903
422374	BARRACKS 18, BUILDING 276		PLUMMER ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0031   2D2, 08/30/1986, USA860730Z	1903
422375	BLDNG 153		PLUMMER ST	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0032   2D2, 08/30/1986, USA860730Z	1922
478803	POST ENGINEER WASHRACK, BUILDING #20-A		PLUMMER ST	MONTEREY	6Y, 01/20/1993, USA921019A	1938
480178	POST ENGINEER TOOL AND EQUIPMENT BUILDING #15		PLUMMER ST	MONTEREY	2D2, 01/15/1993, DOE-27-93-0002-0003   2D2, 01/15/1993, USA921019A	
422362	WAREHOUSE		PLUMMER WY	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0020   2D2, 08/30/1986, USA860730Z	1903
422198	CARRIAGE HOUSE, COOPER-MOLERA ADOBE NORTH BA		POLK ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0022   3D, 12/28/1987, 3940-0002-0022	1895
422199	CARRIAGE HOUSE (OR) STABLE, COOPER-MOLERA ADOBE SO		POLK ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0023   3D, 12/28/1987, 3940-0002-0023	1860



422200	BUGGY SHED, STOREROOM, HARNES ROOM, SOUTH BARN SH		POLK ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0024   3D, 12/28/1987, 3940-0002-0024	1886
422189	CASA AMESTI	516	POLK ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0013   3D, 08/01/1977, 3940-0002-0013	1833
422190	GABRIEL DE LA TORRE ADOBE, FIRST FEDERAL COURT	599	POLK ST	MONTEREY	1D, 04/15/1970, NPS-70000137-0014   3D, 08/01/1977, 3940-0002-0014	1842
674828		15	Portola Ave	Monterey	6Y, 10/30/2017, HUD_2017_1027_002   6Y, 10/30/2017, HUD_2017_1027_003	1992
422300	CUSTOM HOUSE BUILDING COMPLEX	1	PORTOLA PLAZA	MONTEREY	7R, , 3940-0121-0000	1978
422314	LOWER PRESIDIO HILL		PRESIDIO OF MONTEREY	MONTEREY	7R, , 3940-0136-0000	
422367	QUARTERMASTER STOREHSE		PRIVATE BOLIO RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0025   2D2, 08/30/1986, USA860730Z	1912
422368	STORAGE BUILLING 151		PRIVATE BOLIO RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0026   2D2, 08/30/1986, USA860730Z	1918
422463	BUILDING #20		PRIVATE BOLIO RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0118   2D2, 08/30/1986, USA860730Z	1931
478802	GAS METER HOUSE, BUILDING #23-A		PRIVATE BOLIO RD	MONTEREY	2D2, 01/15/1993, DOE-27-93-0002-0001   2D2, 01/15/1993, USA921019A	1930-1930
487610		16	RALSTON DR	MONTEREY	6Y, 08/04/1994, HUD940705G	1939
516061		2	RALSTON DR	MONTEREY	6Y, 02/10/2011, HUD110207R	1962
567274		339	RAMONA AVE	MONTEREY	6Y, 03/20/2002, DOE-27-02-0001-0000   6Y, 03/20/2002, HUD020315B	1940

422465	BUILDING #281		RIFLE RANGE RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0123   2D2, 08/30/1986, USA860730Z	1936
489868		1168	ROOSEVELT ST	MONTEREY	6Y, 11/28/1994, HUD9410171	1939
422417	WAC BARRACKS, BUILDING 339		SARGEANT BEANS RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0103   6Y, 08/30/1986, USA860730Z	1943
422439	BUILDING 118		SARGEANT BEANS RD	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0072   6Y, 08/30/1986, USA860730Z	1903
422458	BUILDING #81		SARGEANT BEANS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0085   2D2, 08/30/1986, USA860730Z	1903
422459	BUILDING #79		SARGEANT BEANS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0086   2D2, 08/30/1986, USA860730Z	1903
422460	BUILDING #77		SARGEANT BEANS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0087   2D2, 08/30/1986, USA860730Z	1903
422461	BUILDING #75		SARGEANT BEANS RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0088   2D2, 08/30/1986, USA860730Z	1903
536666		560	SCOTT ST	MONTEREY	7R, 09/20/2005, 3940-0464-0000	1939
536667		580	SCOTT ST	MONTEREY	7R, 09/20/2005, 3940-0465-0000	1939
536967		581	SCOTT ST	MONTEREY	5S3, 09/20/2005, 3940-0250-0000	1892
536668		590	SCOTT ST	MONTEREY	7R, 09/20/2005, 3940-0466-0000	1939
536669		600	SCOTT ST	MONTEREY	7R, 09/20/2005, 3940-0467-0000	1939
536670		610	SCOTT ST	MONTEREY	7R, 09/20/2005, 3940-0468-0000	1939

536671		620	SCOTT ST	MONTEREY	7R, 09/20/2005, 3940-0469-0000	
536672		640	SCOTT ST	MONTEREY	7R, 09/20/2005, 3940-0470-0000	
536673		641	SCOTT ST	MONTEREY	7R, 09/20/2005, 3940-0471-0000	
536674		660	SCOTT ST	MONTEREY	7R, 09/20/2005, 3940-0472-0000	
536675		680	SCOTT ST	MONTEREY	7R, 09/20/2005, 3940-0473-0000	
536677			SEENO ST	MONTEREY	7R, 09/20/2005, 3940-0474-0000	
536678		107	SEENO ST	MONTEREY	7R, 09/20/2005, 3940-0475-0000	1939
536679		113	SEENO ST	MONTEREY	7R, 09/20/2005, 3940-0476-0000	
536680		125	SEENO ST	MONTEREY	7R, 09/20/2005, 3940-0477-0000	
536681		131	SEENO ST	MONTEREY	7R, 09/20/2005, 3940-0478-0000	
536682		137	SEENO ST	MONTEREY	7R, 09/20/2005, 3940-0479-0000	
536683		141	SEENO ST	MONTEREY	7R, 09/20/2005, 3940-0480-0000	
536684		149	SEENO ST	MONTEREY	7R, 09/20/2005, 3940-0481-0000	
536685		151	SEENO ST	MONTEREY	7R, 09/20/2005, 3940-0482-0000	
536686		161	SEENO ST	MONTEREY	7R, 09/20/2005, 3940-0483-0000	
536687		167	SEENO ST	MONTEREY	7R, 09/20/2005, 3940-0484-0000	
536688		179	SEENO ST	MONTEREY	7R, 09/20/2005, 3940-0485-0000	

536689		199	SEENO ST	MONTEREY	7R, 09/20/2005, 3940-0486-0000	
422378	REPAIR SHOP		SILL RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0035   2D2, 08/30/1986, USA860730Z	1921
422379	COAL SHED		SILL RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0036   2D2, 08/30/1986, USA860730Z	1903
422380	WATER PUMP STATION		SILL RD	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0037   2D2, 08/30/1986, USA860730Z   6Y, 10/19/2004, USA040924A	1903
422319	SLOAT MONUMENT, BUILDING 152		SLOAT PATH	MONTEREY	3D, 08/30/1986, DOE-27-86-0001-0153   3D, 08/30/1986, USA860730Z	1910
551518		204	SOLEIDAD PL	MONTEREY	6Y, 01/12/2004, DOE-27-04-0001-0000   6Y, 01/12/2004, HUD031210G   6Y, 02/10/2011, HUD110207N	1948
521516		205	SOLEIDAD PL	MONTEREY	6Y, 02/25/2009, HUD090126E	1954
498044	GUIDOTTI BARN	20950	SPENCE RD	MONTEREY	6Y, 01/19/1996, DOE-27-96-0001-0000   6Y, 01/19/1996, FHWA951115A	1920
550848	PETERSON CATTLE COMPANY SHED		SR 1	MONTEREY	6Y, 07/10/2003, DOE-27-03-0124-0000   6Y, 07/10/2003, FHWA030611B	
550845	BLIMP MOORING CIRCLE REMAINS		SR 1	MONTEREY	6Y, 07/10/2003, DOE-27-03-0123-0000   6Y, 07/10/2003, FHWA030611B	1942
550843	EQUIPMENT SHED		SR 1	MONTEREY	6Y, 07/10/2003, DOE-27-03-0122-0000   6Y, 07/10/2003, FHWA030611B	1955
666993	Community Hospital of the Monterey Peninsula	23625	SR 68	Monterey	2S2, 08/29/2016, FCC_2016_0727_001	1962

498047	RYAN HOUSE		SR 68 AT HIGHWAY 218	MONTEREY	252, 01/19/1996, DOE-27-96-0004-0000   252, 01/19/1996, FHWA951115A	1919-1925
422357	FLAGPOLE STRUCTURE 133, STRUCTURE 251		STILWELL AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0015   2D2, 08/30/1986, USA860730Z	1935
422381	ENTANCE MONUMENT		STILWELL AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0038   2D2, 08/30/1986, USA860730Z	1935
422402	BUILDING 349		STILWELL AVE	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0100   6Y, 08/30/1986, USA860730Z	1941
422403	POST CHAPEL		STILWELL AVE	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0101   6Y, 08/30/1986, USA860730Z	1941
422404	OFFICERS CLUB		STILWELL AVE	MONTEREY	2D2, 08/30/1986, DOE-27-86-0001-0052   2D2, 08/30/1986, USA860730Z	1904
422420	BLDG T314		STILWELL AVE	MONTEREY	6Y, 08/30/1986, DOE-27-86-0001-0106   6Y, 08/30/1986, USA860730Z	1942
422308	OCEAN HOUSE	1	SURF WY	MONTEREY	7R, , 3940-0129-0000	1971
422309	HARBOR HOUSE	125	SURF WY	MONTEREY	7R, , 3940-0130-0000	1972
422205	ESTRADA ADOBE	456	TYLER ST	MONTEREY	3S, , 3940-0006-0000	1823
536690		565	UNION ST	MONTEREY	7R, 09/20/2005, 3940-0487-0000	
689155	Presidio Stable Building 118 and 119	118 & 119	US Army Garrison	Monterey	6Y, 01/17/2020, USA_2019_1209_001	1922
422225	FIRST MONTEREY PROTESTANT CH, MAYO HAYES O'DONNELL	155	VAN BUREN ST	MONTEREY	252, 01/18/2002, DOE-27-02-0028-0000   252, 01/18/2002, HUD011029G   3S, , 3940-0045-0000	1876

536968		160	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0251-0000	1940
536691		170	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0488-0000	
422223	DOUD HOUSE	177	VAN BUREN ST	MONTEREY	2S2, 04/28/2000, HUD030310W   2S2, 04/28/2003, DOE-27-03-0010-0000   3S, , 3940-0043-0000	1860
536692		180	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0489-0000	
536693		190	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0490-0000	
536969		198	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0252-0000	1946
422224	MANUEL PERRY HOUSE	201	VAN BUREN ST	MONTEREY	3S, , 3940-0044-0000   6Y, 01/08/2008, HUD071224A	1883
536694		218	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0491-0000	1936
536695		226	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0492-0000	
536696		238	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0493-0000	1940
536701		244	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0494-0000	1920
536702		254	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0495-0000	
536970		272	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0253-0000	1932
536972		282	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0254-0000	1932
536547		290	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0496-0000	1946
536548		296	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0497-0000	1950

536549		300	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0498-0000	
536550		308	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0499-0000	
536551		316	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0500-0000	
536552		342	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0501-0000	1936
536553		350	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0502-0000	1945
536554		366	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0503-0000	
536555		400	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0504-0000	
422228	OLD MONTEREY LIBRARY, MONTEREY FOREIGN INSTITUTE	425	VAN BUREN ST	MONTEREY	3S, , 3940-0048-0000	1910
536556		440	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0505-0000	
536557		442	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0506-0000	
536973		456	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0255-0000	1911
536982		462	VAN BUREN ST	MONTEREY		1893
536558		468	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0508-0000	
536983		474	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0257-0000	
536986		484	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0258-0000	1906
536987		486	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0259-0000	1906
536564		492	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0509-0000	

536988		498	VAN BUREN ST	MONTEREY	5S1, 09/20/2005, 3940-0260-0000	1908
536990		504	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0261-0000	1891
536565		510	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0510-0000	
536993		536	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0262-0000	1925
536566		544	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0511-0000	
536994		556	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0263-0000	1908
536996		562	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0264-0000	1925
536567		572	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0512-0000	
536997		582	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0265-0000	1932
536998		598	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0266-0000	1890
536568		614	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0513-0000	
536569		634	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0514-0000	
536570		644	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0515-0000	
536571		650	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0516-0000	1905
536572		666	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0517-0000	1912
537000		668	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0267-0000	1927
475134		669	VAN BUREN ST	MONTEREY	6Y, 01/30/1992, HUD920116B	1923



536573		670	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0518-0000	
536574		672	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0519-0000	1926
536575		674	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0520-0000	1926
536576		676	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0521-0000	1926
537001		678	VAN BUREN ST	MONTEREY	5S3, 09/20/2005, 3940-0268-0000	1892
536577		698	VAN BUREN ST	MONTEREY	7R, 09/20/2005, 3940-0522-0000	
422303	NAKAMURA HOUSE	325	VIA DEL REY	MONTEREY	7R, 3940-0124-0000	1956
482400		71	VIA DEL REY	MONTEREY	6Y, 08/27/1993, HUD930713D	1940
422305	WYETH HOUSE	60	VIA DESCANSO	MONTEREY	5S2, 3940-0126-0000	1952
516054		31	VIA ENCINA	MONTEREY	6Y, 02/10/2011, HUD110207L	1962
516055		98	VIA ENCINA	MONTEREY	6Y, 02/10/2011, HUD110207O	1962
422206	CASA JOAQUIN SOTO	5	VIA JOAQUIN	MONTEREY	3S, 3940-0008-0000	1827
571782	CASTRO ADOBE, La Mirada	720	VIA MIRADA	MONTEREY	6Y, 01/22/2004, DOE-27-04-0003-0000   6Y, 01/22/2004, HUD031215E	1836
687701		750	Via Mirada	Monterey		1935
687702		778	Via Mirada	Monterey		1954
687703		798	Via Mirada	Monterey		
687704		799	Via Mirada	Monterey		1951
687705		800	Via Mirada	Monterey		1924
687706		817	Via Mirada	Monterey		1957
687707		820	Via Mirada	Monterey		1957
687708		827	Via Mirada	Monterey		1958
687709		834	Via Mirada	Monterey		1966
687710		843	Via Mirada	Monterey		1954

687711	Dormody House	848	Via Mirada	Monterey		1931
687712		867	Via Mirada	Monterey		1960
687713		877	Via Mirada	Monterey		1955
687714	Richter House	901	Via Mirada	Monterey		1930
687715		940	Via Mirada	Monterey		1958
687716		941	Via Mirada	Monterey		1954
687717		960	Via Mirada	Monterey		1960
687718		999	Via Mirada	Monterey		
516060		260	VIA PARAISO	MONTEREY	6Y, 02/10/2011, HUDD110207T	1962
422291	SAN CARLOS HOTEL		W FRANKLIN ST	MONTEREY	3S, 3940-0112-0000	1926
536578		801	WAINWRIGHT ST	MONTEREY	7R, 09/20/2005, 3940-0523-0000	
536560		814	WAINWRIGHT ST	MONTEREY	7R, 09/20/2005, 3940-0524-0000	
536579		833	WAINWRIGHT ST	MONTEREY	7R, 09/20/2005, 3940-0525-0000	
537003		201	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0269-0000	1926
537004		202	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0270-0000	1907
537005		211	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0271-0000	1930
537006		212	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0272-0000	1907
536580		219	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0526-0000	
536581		224	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0527-0000	
536582		227	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0528-0000	
536583		235	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0529-0000	

536584		239	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0530-0000	
536585		255	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0531-0000	1930
536586		256	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0532-0000	
536587		262	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0533-0000	
536588		263	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0534-0000	
536589		274	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0535-0000	
537008		283	WATSON ST	MONTEREY	5S3, 09/30/2005, 3940-0273-0000	1930
536590		286	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0536-0000	1912
536591		291	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0537-0000	
536592		298	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0538-0000	1926
536593		299	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0539-0000	1912
537009		300	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0274-0000	1930
536595		301	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0540-0000	1926
537010		308	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0275-0000	1930
536596		309	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0541-0000	1926
568687	FRISBEE-DEVOE HOUSE	314	WATSON ST	MONTEREY	2S2, 12/05/2001, DOE-27-01-0008-0000   2S2, 12/05/2001, HUD011015K	1927

537011		314	WATSON ST	MONTEREY	252, 09/20/2005, 3940-0276-0000	1927
536597		317	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0543-0000	1912
536598		320	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0544-0000	1926
536599		325	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0545-0000	
537012		330	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0277-0000	1925
536600		333	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0546-0000	
536601		338	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0547-0000	1926
536909		343	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0278-0000	1908
536910		346	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0279-0000	1928
536911		351	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0280-0000	
537015		354	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0281-0000	1937
537016		359	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0282-0000	1910
536602		362	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0548-0000	
537018		367	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0283-0000	1925
536603		376	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0549-0000	
537019		383	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0284-0000	1928
536604		402	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0550-0000	

537020		419	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0285-0000	1880
536605		424	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0552-0000	
536606		425	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0553-0000	
536608		431	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0554-0000	
536609		433	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0555-0000	
536428		434	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0556-0000	
536610		436	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0557-0000	
536611		442	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0558-0000	
537021		443	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0286-0000	1908
536612		450	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0559-0000	
536613		455	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0560-0000	
536614		456	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0561-0000	1906
536615		463	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0562-0000	
536616		468	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0563-0000	
536617		475	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0564-0000	
536618		480	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0565-0000	
536619		481	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0566-0000	

536620		486	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0567-0000	
536621		487	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0568-0000	
537022		521	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0287-0000	1908
537023		524	WATSON ST	MONTEREY	5S3, 09/20/2005, 3940-0288-0000	1920
536622		531	WATSON ST	MONTEREY	6Y, 04/08/2016, HUD_2016_0406_005   6Y, 08/13/2014, HUD_2014_0811_040   7R, 09/20/2005, 3940-0569-0000	
536623		538	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0570-0000	
536624		551	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0571-0000	
536625		571	WATSON ST	MONTEREY	7R, 09/20/2005, 3940-0572-0000	
422235		574	WATSON ST	MONTEREY	3S, 3940-0055-0000   3S, 09/20/2005, 3940-0289-0000	1906
422247	CARMEL CANNING WAREHOUSE, NICHOLS PLUMBING SHOP	471	WAVE ST	MONTEREY	7R, 3940-0067-0000	1942
422249	EDGEWATER PACKING COMPANY, THE WAREHOUSE	698	WAVE ST	MONTEREY	7R, 3940-0069-0000	1946
422243	SARDINE FACTORY	701	WAVE ST	MONTEREY	3S, 3940-0063-0000	1915
479275	YMCA (USD) BUILDING	600	WEBSTER ST	MONTEREY	2S2, 04/12/1993, DOE-27-93-0001-0000   2S2, 04/12/1993, USA930201A	1941
481490		2298	WITHERS AVE	MONTEREY	6Y, 07/22/1993, HUD930614E	1940
499739	CARMEL HILL FOREST FIRE STATION	23685	WR HOLMAN SR	MONTEREY	2S2, 09/05/2003, DOE-27-03-0015-0000   2S2, 09/05/2003, FCC0308121   4CM, 12/24/1996, ST.AG.-3540-0208	1943

499740	CARMEL HILL FOREST FIRE STATION	23685	WR HOLMAN SR	MONTEREY	4CM, 12/24/1996, ST.AG.-3540-0209	1943
499741	CARMEL HILL FOREST FIRE STATION GAS & OIL HOUSE	23685	WR HOLMAN SR	MONTEREY	4CM, 12/24/1996, ST.AG.-3540-0210	1943
664056		6	Yerba Buena	Monterey	6Y, 10/27/2015, HUD_2015_1026_001	1985
513186		20	YERBA BUENA CT	MONTEREY	6Y, 08/23/2011, HUD110818D   6Y, 08/23/2016, HUD_2016_0922_003	1985
675381	San Carlos Inn	812	MUNRAS AVE	Monterey	6Y, 01/29/2018, FCC_2017_1228_002	1970

## CALIFORNIA HISTORICAL RESOURCE STATUS CODES

(effective 5/1/2017)

### **1 Listed in the National Register (NR) or the California Register (CR)**

- 1D Contributor to a multi-component resource like a district listed in the NR by the Keeper. Listed in the CR.
- 1S Individually listed in the NR by the Keeper. Listed in the CR.
- 1CD Contributor to a multi-component resource listed in the CR by the SHRC.
- 1CS Individually listed in the CR by the SHRC.
- 1CL State Historical Landmarks (CHL) numbered 770 and above, or SHRC reevaluated CHLs that also meet CR criteria. Listed in the CR.
- 1CP State Points of Historical Interest (CPHI) nominated after December 1997 and recommended for listing by the SHRC or SHRC reevaluated CPHIs that also meet CR criteria. Listed in the CR.

### **2 Determined eligible for listing in the National Register (NR) or the California Register (CR)**

- 2B Determined eligible for the NR both individually and as a contributor to a NR eligible multi-component resource like a district in a federal regulatory process. Listed in the CR.
- 2D Contributor to a multi-component resource determined eligible for the NR by the Keeper. Listed in the CR.
- 2D2 Contributor to a multi-component resource determined eligible for NR by consensus through Section 106 process. Listed in the CR.
- 2D3 Contributor to a multi-component resource determined eligible for NR by Part I Tax Certification. Listed in the CR.
- 2D4 Contributor to a multi-component resource determined eligible for NR pursuant to Section 106 without review by SHPO. Listed in the CR.
- 2S Individually determined eligible for NR by the Keeper. Listed in the CR.
- 2S2 Individually determined eligible for NR by consensus through Section 106 process. Listed in the CR.
- 2S3 Individually determined eligible for NR by Part I Tax Certification. Listed in the CR.
- 2S4 Individually determined eligible for NR pursuant to Section 106 without review by SHPO. Listed in the CR.
- 2CB Determined eligible for CR both individually and as a contributor to a CR eligible multi-component resource by the SHRC.
- 2CD Contributor to a multi-component resource determined eligible for CR by the SHRC.
- 2CS Individually determined eligible for CR by the SHRC.

### **3 Appears eligible for National Register (NR) or California Register (CR).**

- 3B Appears eligible for NR both individually and as a contributor to a NR eligible multi-component resource like a district through survey evaluation.
- 3D Appears eligible for NR as a contributor to a NR eligible multi-component resource through survey evaluation.
- 3S Appears eligible for NR individually through survey evaluation.
  
- 3CB Appears eligible for CR both individually and as a contributor to a CR eligible multi-component resource through survey evaluation.
- 3CD Appears eligible for CR as a contributor to a CR eligible multi-component resource through survey evaluation.
- 3CS Appears eligible for CR individually through survey evaluation.

### **4 Appears eligible for National Register (NR) or State Historical Landmark (CHL) through PRC§ 5024**

- 4CM State agency owned resource added to Master List - appears to meet NR and/or CHL criterion.

### **5 Recognized as Historically Significant by Local Government**

- 5B Locally significant both individually (listed, eligible, or appears eligible) and as contributor to a multi-component resource like a district that is locally listed, designated, determined eligible, or appears eligible through survey evaluation.
- 5D1 Contributor to a multi-component resource that is listed or designated locally.
- 5D2 Contributor to a multi-component resource that is eligible for local listing or designation.
- 5D3 Appears to be a contributor to a multi-component resource that appears eligible for local listing or designation.
- 5S1 Individually listed or designated locally.
- 5S2 Individually eligible for local listing or designation.
- 5S3 Appears to be individually eligible for local listing or designation through survey evaluation.

### **6 Not Eligible for Listing or Designation as specified**

- 6C Determined ineligible for or removed from California Register (CR) by the SHRC.
- 6CD Determined ineligible for or removed from CR by the SHRC as a component of a CR listed multi-component resource. [Code to differentiate a resource that has more than one CR evaluation. Example, a resource that is on the CR as both contributor to a district and individually would still be on the CR if the district was removed/determined ineligible. This code would convey the change of a specific evaluation rather than the resource's CR status.]
- 6J State Historic Landmarks (CHL) or State Points of Historical Interest (SPHI) determined ineligible for or removed as a CHL or SPHI by the SHRC.
- 6L Determined ineligible for local listing or designation through local government review process; may warrant special consideration in local planning.
- 6T Determined ineligible for NR through Part I Tax Certification process.
- 6U Determined ineligible for NR pursuant to Section 106 without review by SHPO.
- 6W Removed from NR by the Keeper.
- 6X Determined ineligible for NR by the SHRC or the Keeper.
- 6Y Determined ineligible for NR by consensus through Section 106 process – Not evaluated for CR or local listing.
- 6Z Found ineligible for NR, CR or local designation through survey evaluation.
- 6WM Removed from Master List because no longer state owned.
- 6XM Removed from Master List because of historic feature loss or further evaluation.
- 6YM State agency owned resource determined ineligible for Master List.

### **7 Not Evaluated for National Register (NR) or California Register (CR) or Needs Re-evaluation**

- 7E Treated as eligible for the purpose of OHP review.
- 7J Received by OHP for evaluation or action but not yet evaluated.
- 7K Submitted to OHP for action but not reevaluated.
- 7L State Historical Landmarks 1-769 – that do not meet CR criteria.
- 7M Submitted to OHP but not evaluated - referred to NPS.
- 7N Needs to be reevaluated - formerly coded as may become NR eligible with specific conditions.
- 7N1 Needs to be reevaluated (former status code 4) - may become NR eligible with restoration or other specific conditions.
- 7P State Point of Historical Interests that do not meet CR criteria.
- 7R Identified in Reconnaissance Level Survey or in an Area of Potential Effect (APE): Not evaluated.
- 7W Submitted to OHP for action – withdrawn or inactive.



Bridge	Name	Fac	City	Yr Blt	Notes
44 0070E	N1-W68,E68-N1 CONNECTOR	N1-W68 & E68-N1 CN	Monterey	1959	Does not meet significance criteria.
44 0145L	MUNRAS AVE UC	STATE ROUTE 1	Monterey	1968	
44 0145R	MUNRAS AVE UC	STATE ROUTE 1	Monterey	1968	
44 0146L	AGUAJITO RD UC	ROUTE 1 SB	Monterey	1968	
44 0146R	AGUAJITO ROAD UC	ROUTE 1 NB	Monterey	1968	
44 0149E	W68-S1,S1-E68 CONNECTOR	W68-S1 & S1-E68 CN	Monterey	1968	
44 0151	FAIRGROUND ROAD OC	FAIRGROUNDS RD	Monterey	1967	
44 0152S	FREMONT STREET OC (S)	N1-FREMONT ST OFF	Monterey	1968	
44 0153K	FREMONT STREET OC	FREMONT ST-S1 ONRP	Monterey	1968	
44 0156L	DEL MONTE OH	SR 1 SB	Monterey	1968	
44 0156R	DEL MONTE OH	SR 1 NB	Monterey	1968	
44 0157K	DEL MONTE RAMP OH	S1-DEL MONTE OFFRP	Monterey	1968	
44 0168L	SLOAT AVE UC	STATE ROUTE 1	Monterey	1968	
44 0168R	SLOAT AVE UC	STATE ROUTE 1	Monterey	1968	
44 0187L	CASA VRDE A UC	STATE ROUTE 1	Monterey	1968	
44 0187R	CASA VRDE A UC	STATE ROUTE 1	Monterey	1968	
44 0191L	SOLEDAD DR UC	STATE ROUTE 1	Monterey	1968	
44 0191R	SOLEDAD DR UC	STATE ROUTE 1	Monterey	1968	
44 0192L	IRIS CANYON RD UC	STATE ROUTE 1	Monterey	1968	
44 0192R	IRIS CANYON RD UC	STATE ROUTE 1	Monterey	1968	
44C0064	CUSTOM HSE TU(LIGHTHOUSE	CITY PARKING LOT	Monterey	1968	
44C0082	HARTNELL GULCH	LARKIN ST	Monterey	1914	Remains eligible in the Bridge Survey Update.
44C0083	SCENIC DRIVE UC	SKYLINE FOREST DR	Monterey	1965	
44C0084	EL ESTERO LAKE WEST	PEARL ST	Monterey	1991	
44C0085	EL ESTERO LAKE EAST	PEARL ST	Monterey	1991	
44C0094	DEL MONTE DRAIN	VIA ARBOLES	Monterey	1964	
44C0166	PACIFIC ST POC	PACIFIC ST	Monterey	1980	
44C0171	SHERATON HOTEL POC	DEL MONTE AVE	Monterey	1985	

44C0172	MONTEREY PLAZA HOTEL POC	CANNERY ROW	Monterey	1982	
44C0173	MONTEREY PLAZA HOTEL POC	CANNERY ROW	Monterey	1982	
44C0174	PARKING GARAGE OC	TYLER ST	Monterey	1978	
44C0175	CANNERY ROW POC	CANNERY ROW - AENAS	Monterey	1930	Pedestrian bridge between two buildings. Not evaluated in bridge survey.
44C0176	MONTEREY CANNERY POC	CANNERY ROW	Monterey	1930	Pedestrian bridge between two buildings. Not evaluated in bridge survey.
44C0177	HOFFMAN AVE POC	HOFFMAN AVE	Monterey	1975	



# D

**APPENDIX**

**MATERIALS FOR TRIBAL  
CULTURAL RESOURCES**

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Native American Heritage Commission (NAHC) Tribal Consultation Results..... D-1

NAHC Tribal Consultation Letters.....D-4

## NATIVE AMERICAN HERITAGE COMMISSION

November 1, 2022

Christy Sabdo  
City of Monterey

Via Email to: [sabdo@monterey.org](mailto:sabdo@monterey.org)

**Re: Native American Consultation, Pursuant to Senate Bill 18 (SB18), Government Codes §65352.3 and §65352.4, as well as Assembly Bill 52 (AB52), Public Resources Codes §21080.1, §21080.3.1 and §21080.3.2, Monterey 2031 – General Plan Update Project, Monterey County**

Dear Ms. Sabdo:

Attached is a consultation list of tribes with traditional lands or cultural places located within the boundaries of the above referenced counties or projects.

Government Codes §65352.3 and §65352.4 require local governments to consult with California Native American tribes identified by the Native American Heritage Commission (NAHC) for the purpose of avoiding, protecting, and/or mitigating impacts to cultural places when creating or amending General Plans, Specific Plans and Community Plans.

Public Resources Codes §21080.3.1 and §21080.3.2 requires public agencies to consult with California Native American tribes identified by the Native American Heritage Commission (NAHC) for the purpose of avoiding, protecting, and/or mitigating impacts to tribal cultural resources as defined, for California Environmental Quality Act (CEQA) projects.

The law does not preclude local governments and agencies from initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction. The NAHC believes that this is the best practice to ensure that tribes are consulted commensurate with the intent of the law.

Best practice for the AB52 process and in accordance with Public Resources Code §21080.3.1 (d), is to do the following:

*Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section.*

The NAHC also recommends, but does not require that lead agencies include in their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential affect (APE), such as:



CHAIRPERSON  
**Laura Miranda**  
Luiseño

VICE CHAIRPERSON  
**Reginald Pagaling**  
Chumash

SECRETARY  
**Sara Dutschke**  
Miwok

COMMISSIONER  
**Isaac Bojorquez**  
Ohlone-Costanoan

COMMISSIONER  
**Buffy McQuillen**  
Yokayo Pomo, Yuki,  
Nomlaki

COMMISSIONER  
**Wayne Nelson**  
Luiseño

COMMISSIONER  
**Stanley Rodriguez**  
Kumeyaay

COMMISSIONER  
**[Vacant]**

COMMISSIONER  
**[Vacant]**

EXECUTIVE SECRETARY  
**Raymond C. Hitchcock**  
Miwok/Nisenan

**NAHC HEADQUARTERS**  
1550 Harbor Boulevard  
Suite 100  
West Sacramento,  
California 95691  
(916) 373-3710  
[nahc@nahc.ca.gov](mailto:nahc@nahc.ca.gov)  
[NAHC.ca.gov](http://NAHC.ca.gov)

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:
  - A listing of any and all known cultural resources have already been recorded on or adjacent to the APE, such as known archaeological sites;
  - Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
  - Whether the records search indicates a low, moderate or high probability that unrecorded cultural resources are located in the APE; and
  - If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.
2. The results of any archaeological inventory survey that was conducted, including:
  - Any report that may contain site forms, site significance, and suggested mitigation measures.  
  
All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code Section 6254.10.
3. The result of the Sacred Lands File (SFL) check conducted through the Native American Heritage Commission was positive. Please contact the tribes on the attached list for more information.
4. Any ethnographic studies conducted for any area including all or part of the potential APE; and
5. Any geotechnical reports regarding all or part of the potential APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS is not exhaustive, and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event, that they do, having the information beforehand well help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address:

[Cody.Campagne@nahc.ca.gov](mailto:Cody.Campagne@nahc.ca.gov).

Sincerely,

*Cody Campagne*

Cody Campagne  
Cultural Resources Analyst

Attachment

**Native American Heritage Commission  
Tribal Consultation List  
Monterey County  
11/1/2022**

**Amah Mutsun Tribal Band**

Valentin Lopez, Chairperson  
P.O. Box 5272  
Galt, CA, 95632  
Phone: (916) 743 - 5833  
vlopez@amahmutsun.org

Costanoan  
Northern Valley  
Yokut

**Ohlone/Costanoan-Esselen Nation**

Louise Miranda-Ramirez,  
Chairperson  
P.O. Box 1301  
Monterey, CA, 93942  
Phone: (408) 629 - 5189  
ramirez.louise@yahoo.com

Costanoan  
Esselen

**Amah Mutsun Tribal Band of Mission San Juan Bautista**

Irene Zwierlein, Chairperson  
3030 Soda Bay Road  
Lakeport, CA, 95453  
Phone: (650) 851 - 7489  
Fax: (650) 332-1526  
amahmutsuntribal@gmail.com

Costanoan

**Wuksache Indian Tribe/Eshom Valley Band**

Kenneth Woodrow, Chairperson  
1179 Rock Haven Ct.  
Salinas, CA, 93906  
Phone: (831) 443 - 9702  
kwood8934@aol.com

Foothill Yokut  
Mono

**Costanoan Ohlone Rumsen-Mutsen Tribe**

Patrick Orozco, Chairman  
644 Peartree Drive  
Watsonville, CA, 95076  
Phone: (831) 728 - 8471  
yanapvoic97@gmail.com

Ohlone

**Kakoon Ta Ruk Band of Ohlone-Costanoan Indians of the Big Sur Rancheria**

Isaac Bojorquez, Chairman  
PO Box 541  
Esparto, CA, 95627  
Phone: (530) 723 - 2380  
Ohlone\_1@yahoo.com

Ohlone

**Esselen Tribe of Monterey County**

Tom Little Bear Nason, Chairman  
P. O. Box 95  
Carmel Valley, CA, 93924  
Phone: (831) 659 - 2153  
Fax: (831) 659-0111  
TribalChairman@EsselenTribe.org

Costanoan  
Esselen

**Rumsen Am:a Tur:ataj Ohlone**

Dee Dee Ybarra, Chairperson  
14671 Farmington Street  
Hesperia, CA, 92345  
Phone: (760) 403 - 1756  
rumsenama@gmail.com

Costanoan

**Indian Canyon Mutsun Band of Costanoan**

Ann Marie Sayers, Chairperson  
P.O. Box 28  
Hollister, CA, 95024  
Phone: (831) 637 - 4238  
ams@indiancanyons.org

Costanoan

**Indian Canyon Mutsun Band of Costanoan**

Kanyon Sayers-Roods, MLD  
Contact  
1615 Pearson Court  
San Jose, CA, 95122  
Phone: (408) 673 - 0626  
kanyon@kanyonconsulting.com

Costanoan

This list is current only as of the date of this document and is based on the information available to the Commission on the date it was produced. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is applicable only for consultation with Native American tribes under Government Code Sections 65352.3, 65352.4 et seq. and Public Resources Code Sections 21080.3.1 for the proposed Monterey 2031 – General Plan Update Project, Monterey County.





December 8, 2022

Isaac Bojorquez  
PO Box 541  
Esparto, CA, 95627

**Re: Native American and Tribal Consultation under SB 18**

Dear Mr. Bojorquez,

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December 8, 2022

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Kindest Regards,

Christy Sabdo, Associate Planner  
City of Monterey  
Tel. 831-646-3885  
sabdo@monterey.org

Attachments:

- Figure 1 - Planning Area Map
- Figure 2 - USGS 7.5' Quadrangle Map



December 8, 2022

Valentin Lopez  
P.O. Box 5272  
Galt, CA, 95632

**Re: Native American and Tribal Consultation under SB 18**

Dear Ms. Lopez,

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sabdo@monterey.org

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December 8, 2022

Louise Miranda-Ramirez  
P.O. Box 1301  
Monterey, CA, 93942

**Re: Native American and Tribal Consultation under SB 18**

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sabdo@monterey.org

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December 8, 2022

Tom Little Bear Nason  
P. O. Box 95  
Carmel Valley, CA, 93924

**Re: Native American and Tribal Consultation under SB 18**

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December 8, 2022

Patrick Orozco  
644 Peartree Drive  
Watsonville, CA, 95076

**Re: Native American and Tribal Consultation under SB 18**

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City of Monterey  
Tel. 831-646-3885  
sabdo@monterey.org

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December 8, 2022

Kanyon Sayers-Roods  
1615 Pearson Court  
San Jose, CA, 95122

**Re: Native American and Tribal Consultation under SB 18**

Dear Ms. Sayers-Roods,

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sabdo@monterey.org

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December 8, 2022

Ann Marie Sayers  
P.O. Box 28  
Hollister, CA, 95024

**Re: Native American and Tribal Consultation under SB 18**

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December 8, 2022

Kenneth Woodrow  
1179 Rock Haven Ct.  
Salinas, CA, 93906

**Re: Native American and Tribal Consultation under SB 18**

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December 8, 2022

Dee Dee Ybarra  
14671 Farmington Street  
Hesperia, CA, 92345

**Re: Native American and Tribal Consultation under SB 18**

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This letter serves to invite consultation in accordance with California Government Code Sections 65352.3 – 65352.4 per Senate Bill 18 (SB 18). SB 18 requires local governments to conduct meaningful consultation with California Native American tribes prior to adopting an update to the General Plan, for the purpose of protecting, or mitigating impacts to, cultural places. To assist in your evaluation of the Project, the Town has requested a Sacred Lands File (SFL) check through the NAHC, the result of which was positive.

Your input is important to the City's planning process. Please advise the City in writing if you wish to initiate consultations with the City on the Project. Under the provisions of SB 18, you have 90 days from the date of this notice to advise the Town if you are interested in further consultation on the Project. After your written request is received, we will contact you as soon as possible to begin the consultation process.

If the Town does not receive a written request within 90 calendar days, we will conclude that the invitation to consult been declined. This notification does not limit the ability of the Tribe to submit information to the Town or comment on the environmental review document when that is available later in the process.

Kindest Regards,

Christy Sabdo, Associate Planner  
City of Monterey  
Tel. 831-646-3885  
sabdo@monterey.org

Attachments:

- Figure 1 - Planning Area Map
- Figure 2 - USGS 7.5' Quadrangle Map



December 8, 2022

Irene Zwierlein  
3030 Soda Bay Road  
Lakeport, CA, 95453

**Re: Native American and Tribal Consultation under SB 18**

Dear Ms. Zwierlein

The City of Monterey is preparing an update to the Housing, Land Use, and Safety Elements of its General Plan ('Project'). The Planning Area for the Housing Element covers the corporate limits of the Town of Monterey as shown in the attached maps. Figure 1 depicts the approximately 20-square mile Planning Area, including parcels, the City of Monterey boundary, and the Sphere of Influence. Figure 2 shows the USGS 7.5" topographic quadrangles that covers the Planning Area.

The Monterey 2031 General Plan update will be a collaborative effort between the City and its residents to create a blueprint that will guide Monterey in the years to come. Critical issues to be addressed include:

- Housing supply and affordability
- Land use mix and community character
- Climate change and community resilience
- Airport safety
- Emergency preparedness and response

Amid the ongoing housing shortage in California, in our Housing Element the City of Monterey is required to plan for 3,654 new homes over the next 8 years to accommodate projected need. Given that Monterey is a largely built out community with few vacant sites, the City will need to explore a variety of potential solutions for identifying additional capacity, including increased residential development downtown; higher density infill development along commercial corridors such as Lighthouse Avenue, North Fremont Street, Garden Road, and Del Monte Avenue; and on-campus student and workforce housing. New accessory dwelling units and small-scale housing in residential neighborhoods throughout Monterey will also be part of the solution.

The Project will also involve an update to the Safety Element to incorporate new information and strategies to respond to natural hazards and the effects of climate change, as well as updates to the Land Use Element to accommodate Monterey's share of the projected regional housing need, ensure consistency with the 2019 Monterey Regional Airport Land Use Compatibility Plan, and consider the impact of new growth on

Page 2

RE: Native American and Tribal Consultation under SB 18

December 8, 2022

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July 12, 2023

Kakoon Ta Ruk Band of Ohlone-Costanoan Indians of the Big Sur Rancheria  
Isaac Bojorquez  
PO Box 541  
Esparto, CA, 95627

**Re: Native American and Tribal Consultation under AB 52**

Dear Mr. Bojorquez,

The City of Monterey is preparing an update to the Housing, Land Use, and Safety Elements of its General Plan ('Project'). The Planning Area for the Housing Element covers the corporate limits of the City of Monterey as shown in the attached maps. Figure 1 depicts the approximately 20-square mile Planning Area, including parcels, the City of Monterey boundary, and the Sphere of Influence. Figure 2 shows the USGS 7.5" topographic quadrangles that covers the Planning Area.

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- Housing supply and affordability
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Amid the ongoing housing shortage in California, the City of Monterey is required by law to plan for at least 3,654 new homes over the next 8 years to accommodate current and projected need. Given that Monterey is a largely built out community with few vacant sites, the City will need to explore a variety of potential solutions for identifying additional capacity, including increased residential development downtown; higher density infill development along commercial corridors such as Lighthouse Avenue, North Fremont Street, Garden Road, and Del Monte Avenue; redevelopment on the site of the former Fort Ord military base, and development of a portion of a vacant 50-acre property owned by the Monterey Peninsula Unified School District south of Highway 68. New accessory dwelling units and small-scale housing in residential neighborhoods throughout Monterey will also be part of the solution.

December 7, 2023

On June 20, the Monterey City Council approved a preliminary list of sites for housing, shown on Figure 3. These sites have a projected capacity for 5,802 new homes, which is sufficient to meet the City's assessed share of the regional housing need with a buffer.

The Project will also involve an update to the Safety Element to incorporate new information and strategies to respond to natural hazards and the effects of climate change, as well as updates to the Land Use Element to accommodate Monterey's share of the projected regional housing need, ensure consistency with the 2019 Monterey Regional Airport Land Use Compatibility Plan, and consider the impact of new growth on military readiness activities at the Presidio of Monterey Army Base, the US Coast Guard Station Monterey, and US Navy operations in the City.

This letter serves to initiate consultation pursuant to Assembly Bill 52 (AB 52, Chapter 532, Statutes of 2014), to evaluate the Project's potential impacts to tribal cultural resources as part of the Project's environmental review under CEQA. To ensure compliance with AB 52 and Public Resources Code Section 21080.3.1, we are requesting any information you may have of tribal cultural resources within the Planning Area boundaries and respectfully invite you to consult on and participate in the review process for this Project.

Your input is important to the City's planning process. Under the provisions of AB 52, you have 30 days from the receipt of this notice to advise the City if you are interested in consultation as part of CEQA environmental review; however, given the statutory deadline for adoption of the Housing Element, we would appreciate a response at your earliest convenience. After your written request is received, we will contact you as soon as possible and not later than 30 calendar days after receipt to begin the consultation process.

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sabdo@monterey.org

Attachments:

- Figure 1 - Planning Area Map
- Figure 2 - USGS 7.5' Quadrangle Map
- Figure 3 - Sites Available for Housing



July 12, 2023

Amah Mutsun Tribal Band  
Valentin Lopez  
P.O. Box 5272  
Galt, CA, 95632

**Re: Native American and Tribal Consultation under AB 52**

Dear Ms. Lopez

The City of Monterey is preparing an update to the Housing, Land Use, and Safety Elements of its General Plan ('Project'). The Planning Area for the Housing Element covers the corporate limits of the City of Monterey as shown in the attached maps. Figure 1 depicts the approximately 20-square mile Planning Area, including parcels, the City of Monterey boundary, and the Sphere of Influence. Figure 2 shows the USGS 7.5" topographic quadrangles that covers the Planning Area.

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# E

**APPENDIX**

**GHG AND AIR  
QUALITY DATA**

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**CalEEMod 2022.1.21 Defaults**

Land Use Sub Type	Size	Size Metric	Trip Rate (/size/day)			Trip Length (mi)						Trip Type (%)			Trip Type by Use(%)					
			WkDy	Sat	Sun	Res H-W	Res H-S	Res H-O	Non Res	Non Res	Non Res	Primary	Diverted	Pass-By	Res H-W	Res H-S	Res H-O	Non Res	Non Res	Non Res
									H-W	W-O	O-O							H-W	W-O	O-O
High School		1000 s.f.	14.07	3.98	1.71	0	0	0	7.76	3.59	3.42	100	0	0	0	0	0	30.30	16.57	53.13
Industrial Park		1000 s.f.	3.37	2.54	1.24	0	0	0	7.76	3.59	3.42	100	0	0	0	0	0	30.30	16.57	53.13
City Park		Acre	0.78	1.96	2.19	0	0	0	7.76	3.59	3.42	100	0	0	0	0	0	30.30	16.57	53.13
Strip Mall		1000 s.f.	44.32	42.04	20.43	0	0	0	7.76	3.59	3.42	100	0	0	0	0	0	30.30	16.57	53.13
Government Civic Center		1000 s.f.	33.98	0.00	0.00	0	0	0	7.76	3.59	3.42	100	0	0	0	0	0	30.30	16.57	53.13
Research and Development		1000 s.f.	11.26	1.90	1.11	0	0	0	7.76	3.59	3.42	100	0	0	0	0	0	30.30	16.57	53.13
Single Family Housing		DU	9.44	9.54	8.55	6.82	2.39	1.99	0	0	0	100	0	0	33.2	11.5	55.3	0	0	0
Condo/Townhouse		DU	7.32	8.14	6.28	6.82	2.39	1.99	0	0	0	100	0	0	33.2	11.5	55.3	0	0	0
Apartments Low Rise		DU	7.32	8.14	6.28	6.82	2.39	1.99	0	0	0	100	0	0	33.2	11.5	55.3	0	0	0
Mobile Home Park		DU	5.00	4.61	4.24	6.82	2.39	1.99	0	0	0	100	0	0	33.2	11.5	55.3	0	0	0

**Notes:**

Based on 2015 California Statewide Travel Demand Model (CSTDM). Metropolitan Planning Organization/Regional Transportation Planning Agency defaults not available. Modeled using CARB Unmitigated Unpaved Road Statewide Emission Inventory Method in place of US EPA's AP-42 methodology (default unchecked option).

**Existing (2022) Conditions**

Land Use Sub Type	Size	Size Metric	Trip Rate (/size/day)			Trip Length (mi)						Trip Type (%)			Trip Type by Use(%)					
			WkDy	Sat	Sun	Res H-W	Res H-S	Res H-O	Non Res	Non Res	Non Res	Primary	Diverted	Pass-By	Res H-W	Res H-S	Res H-O	Non Res	Non Res	Non Res
									H-W	W-O	O-O							H-W	W-O	O-O
High School	1,286	1000 s.f.	0.82	0.23	0.10	0.00	0	0	5.00	0	0	100	0	0	0	0	0	100	0	0
Industrial Park	515	1000 s.f.	0.20	0.15	0.07	0.00	0	0	5.00	0	0	100	0	0	0	0	0	100	0	0
City Park	618	Acre	0.05	0.11	0.13	0.00	0	0	5.00	0	0	100	0	0	0	0	0	100	0	0
Strip Mall	5,875	1000 s.f.	2.58	2.45	1.19	0.00	0	0	5.00	0	0	100	0	0	0	0	0	100	0	0
Government Civic Center	501	1000 s.f.	1.98	0.00	0.00	0.00	0	0	5.00	0	0	100	0	0	0	0	0	100	0	0
Research and Development	11,259	1000 s.f.	0.66	0.11	0.06	0.00	0	0	5.00	0	0	100	0	0	0	0	0	100	0	0
Single Family Housing	6,826	DU	0.55	0.56	0.50	5.00	0	0	0	0	0	100	0	0	100	0	0	0	0	0
Condo/Townhouse	2,623	DU	0.43	0.47	0.37	5.00	0	0	0	0	0	100	0	0	100	0	0	0	0	0
Apartments Low Rise	4,329	DU	0.43	0.47	0.37	5.00	0	0	0	0	0	100	0	0	100	0	0	0	0	0
Mobile Home Park	47	DU	0.29	0.27	0.25	5.00	0	0	0	0	0	100	0	0	100	0	0	0	0	0

**Existing Conditions**

Non-residential land use calculated using SCAG's median range employment densities (square foot per employee/job); employment data from Census OnTheMap. Consistent method and scale as used for Proposed Plan below. Residential (dwelling units from Dept. of Finance). Condo/Townhouse includes two- to four-unit multifamily units; Apartments Low Rise includes multifamily with 5+ units.

**Future (2031) with Proposed Plan**

Land Use Sub Type	Size	Size Metric	Trip Rate (/size/day)			Trip Length (mi)						Trip Type (%)			Trip Type by Use(%)					
			WkDy	Sat	Sun	Res H-W	Res H-S	Res H-O	Non Res H-W	Non Res W-O	Non Res O-O	Primary	Diverted	Pass-By	Res H-W	Res H-S	Res H-O	Non Res H-W	Non Res W-O	Non Res O-O
High School	1,686	1000 s.f.	0.96	0.27	0.12	0	0	0	5.20	0	0	100	0	0	0	0	0	100	0	0
Industrial Park	642	1000 s.f.	0.23	0.17	0.08	0	0	0	5.20	0	0	100	0	0	0	0	0	100	0	0
City Park	618	Acre	0.05	0.13	0.15	0	0	0	5.20	0	0	100	0	0	0	0	0	100	0	0
Strip Mall	7,514	1000 s.f.	3.02	2.87	1.39	0	0	0	5.20	0	0	100	0	0	0	0	0	100	0	0
Government Civic Center	674	1000 s.f.	2.32	0.00	0.00	0	0	0	5.20	0	0	100	0	0	0	0	0	100	0	0
Research and Development	14,005	1000 s.f.	0.77	0.13	0.08	0	0	0	5.20	0	0	100	0	0	0	0	0	100	0	0
Single Family Housing	7,057	DU	0.64	0.65	0.58	5.20	0	0	0	0	0	100	0	0	100	0	0	0	0	0
Condo/Townhouse	2,623	DU	0.50	0.56	0.43	5.20	0	0	0	0	0	100	0	0	100	0	0	0	0	0
Apartments Low Rise	9,877	DU	0.50	0.56	0.43	5.20	0	0	0	0	0	100	0	0	100	0	0	0	0	0
Mobile Home Park	47	DU	0.34	0.31	0.29	5.20	0	0	0	0	0	100	0	0	100	0	0	0	0	0

**Future Conditions**

Industrial Park includes assumed area from job growth in Manufacturing and Wholesale; Strip Mall includes Retail, Finance and Real Estate, and Services; High School includes Education and Self Employed; Research and Development includes Healthcare; Government Civic Center includes Public Administration. Single Family Housing includes RHNA Capacity from ADUs.

**Scaling Factors**

Metric	Calculation	Existing	Proposed Plan	Change
Factor to get from default to existing conditions trip rate:	Daily VMT / Daily VMT based on Land Use Subtypes and Default Trip Rates	0.06	0.07	
Daily Weekday VMT Assuming Existing Buildings and Default Trip Rates:	Sum of: Size * WkDy Trip Rate * Average Trip Length, for each Land Use Subtype	2,698,888	3,631,300	
Average Trip Length (mi): <sup>1</sup>		5.00	5.20	
Average Daily Vehicle Trips <sup>1</sup>		31,486	47,728	51.6%
Daily VMT:		157,209	247,740	57.6%

1. Traffic data provided by Project transportation engineers (Kimley Horn) on 12/4/2023. Data analysis was conducted for only home-based VMT.

# Monterey GPU Existing 2023 Detailed Report

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## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Monterey GPU Existing 2023
Operational Year	2023
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	27.6
Location	36.598122450759476, -121.89086679211236
County	Monterey
City	Monterey
Air District	Monterey Bay ARD
Air Basin	North Central Coast
TAZ	3238
EDFZ	6
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

## 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
High School	1,286	1000sqft	29.5	1,286,000	0.00	0.00	—	Education and Self Employed jobs to sqft

Industrial Park	515	1000sqft	11.8	515,000	0.00	—	—	Manufacturing and Wholesale jobs to sqft
City Park	618	Acre	618	0.00	0.00	0.00	—	Park/open space acres.
Strip Mall	5,875	1000sqft	135	5,875,000	0.00	—	—	Retail, Finance and Real Estate, and Services jobs to sqft
Government (Civic Center)	501	1000sqft	11.5	501,000	0.00	—	—	Public Administration jobs to sqft
Research & Development	11,259	1000sqft	258	11,259,000	0.00	—	—	—
Single Family Housing	6,826	Dwelling Unit	2,216	13,310,700	79,951,962	—	22,662	One-unit detached or attached
Condo/Townhouse	2,623	Dwelling Unit	164	2,780,380	0.00	—	8,708	Multifamily 2-4 units
Apartments Low Rise	4,329	Dwelling Unit	271	4,588,740	0.00	—	14,372	Multifamily 5+ units
Mobile Home Park	47.0	Dwelling Unit	5.92	61,100	0.00	—	156	Mobile homes

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	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.	608	1,500	454	2,821	3.90	59.2	153,287	153,347	58.7	15,339	15,397	28,883	800,914	829,797	2,705	45.4	1,255	912,220

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	378	1,285	457	1,245	3.75	57.3	153,287	153,345	57.2	15,339	15,396	28,883	789,150	818,033	2,707	46.3	630	900,134
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	453	1,315	381	2,409	4.79	90.0	53.3	143	87.3	13.7	101	41,577	680,736	722,313	2,776	44.4	855	805,812
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	82.7	240	69.6	440	0.87	16.4	9.73	26.1	15.9	2.50	18.4	6,883	112,704	119,587	460	7.36	142	133,411

## 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	147	138	99.0	794	1.43	1.29	153,287	153,289	1.21	15,339	15,340	—	145,784	145,784	9.52	7.87	642	149,008
Area	436	1,349	131	1,891	1.08	40.4	—	40.4	39.9	—	39.9	2,901	146,582	149,483	3.24	0.66	—	149,760
Energy	25.4	12.7	223	136	1.39	17.6	—	17.6	17.6	—	17.6	—	485,484	485,484	58.3	4.63	—	488,322
Water	—	—	—	—	—	—	—	—	—	—	—	13,050	23,065	36,116	1,342	32.2	—	79,273
Waste	—	—	—	—	—	—	—	—	—	—	—	12,932	0.00	12,932	1,292	0.00	—	45,243
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	613	613
Total	608	1,500	454	2,821	3.90	59.2	153,287	153,347	58.7	15,339	15,397	28,883	800,914	829,797	2,705	45.4	1,255	912,220
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	145	135	117	843	1.37	1.30	153,287	153,289	1.22	15,339	15,340	—	139,592	139,592	11.4	8.79	16.7	142,515
Area	208	1,137	116	266	0.99	38.4	—	38.4	38.4	—	38.4	2,901	141,008	143,909	3.00	0.61	—	144,167

Energy	25.4	12.7	223	136	1.39	17.6	—	17.6	17.6	—	17.6	—	485,484	485,484	58.3	4.63	—	488,322
Water	—	—	—	—	—	—	—	—	—	—	—	13,050	23,065	36,116	1,342	32.2	—	79,273
Waste	—	—	—	—	—	—	—	—	—	—	—	12,932	0.00	12,932	1,292	0.00	—	45,243
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	613	613
Total	378	1,285	457	1,245	3.75	57.3	153,287	153,345	57.2	15,339	15,396	28,883	789,150	818,033	2,707	46.3	630	900,134
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	124	116	95.8	683	1.20	1.13	53.3	54.4	1.06	13.7	14.8	—	122,011	122,011	9.19	7.33	242	124,668
Area	304	1,186	62.2	1,590	2.20	71.3	—	71.3	68.7	—	68.7	15,595	50,176	65,771	74.1	0.23	—	67,692
Energy	25.4	12.7	223	136	1.39	17.6	—	17.6	17.6	—	17.6	—	485,484	485,484	58.3	4.63	—	488,322
Water	—	—	—	—	—	—	—	—	—	—	—	13,050	23,065	36,116	1,342	32.2	—	79,273
Waste	—	—	—	—	—	—	—	—	—	—	—	12,932	0.00	12,932	1,292	0.00	—	45,243
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	613	613
Total	453	1,315	381	2,409	4.79	90.0	53.3	143	87.3	13.7	101	41,577	680,736	722,313	2,776	44.4	855	805,812
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.6	21.1	17.5	125	0.22	0.21	9.73	9.94	0.19	2.50	2.69	—	20,200	20,200	1.52	1.21	40.0	20,640
Area	55.5	216	11.3	290	0.40	13.0	—	13.0	12.5	—	12.5	2,582	8,307	10,889	12.3	0.04	—	11,207
Energy	4.64	2.32	40.7	24.8	0.25	3.21	—	3.21	3.21	—	3.21	—	80,377	80,377	9.66	0.77	—	80,847
Water	—	—	—	—	—	—	—	—	—	—	—	2,161	3,819	5,979	222	5.34	—	13,125
Waste	—	—	—	—	—	—	—	—	—	—	—	2,141	0.00	2,141	214	0.00	—	7,491
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	102	102
Total	82.7	240	69.6	440	0.87	16.4	9.73	26.1	15.9	2.50	18.4	6,883	112,704	119,587	460	7.36	142	133,411

## 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	4.84	4.56	3.27	26.2	0.05	0.04	5,064	5,064	0.04	507	507	—	4,816	4,816	0.31	0.26	21.2	4,922
Industrial Park	0.47	0.45	0.32	2.56	< 0.005	< 0.005	495	495	< 0.005	49.5	49.5	—	470	470	0.03	0.03	2.07	481
City Park	0.37	0.35	0.25	2.00	< 0.005	< 0.005	386	386	< 0.005	38.6	38.6	—	367	367	0.02	0.02	1.62	375
Strip Mall	69.6	65.5	47.0	377	0.68	0.61	72,786	72,786	0.58	7,283	7,284	—	69,223	69,223	4.52	3.74	305	70,754
Government (Civic Center)	4.56	4.29	3.08	24.7	0.04	0.04	4,763	4,763	0.04	477	477	—	4,530	4,530	0.30	0.24	20.0	4,630
Research & Development	34.1	32.1	23.0	185	0.33	0.30	35,683	35,683	0.28	3,571	3,571	—	33,936	33,936	2.22	1.83	150	34,687
Single Family Housing	17.6	16.5	11.9	95.1	0.17	0.15	18,356	18,356	0.15	1,837	1,837	—	17,457	17,457	1.14	0.94	76.9	17,843
Condo/Townhouse	5.66	5.33	3.82	30.7	0.06	0.05	5,920	5,920	0.05	592	592	—	5,630	5,630	0.37	0.30	24.8	5,755
Apartments Low Rise	9.35	8.80	6.31	50.6	0.09	0.08	9,770	9,770	0.08	978	978	—	9,292	9,292	0.61	0.50	40.9	9,497
Mobile Home Park	0.06	0.06	0.04	0.34	< 0.005	< 0.005	65.5	65.5	< 0.005	6.55	6.55	—	62.2	62.2	< 0.005	< 0.005	0.27	63.6
Total	147	138	99.0	794	1.43	1.29	153,287	153,289	1.21	15,339	15,340	—	145,784	145,784	9.52	7.87	642	149,008

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	4.78	4.46	3.87	27.9	0.05	0.04	5,064	5,064	0.04	507	507	—	4,611	4,611	0.38	0.29	0.55	4,708
Industrial Park	0.47	0.44	0.38	2.72	< 0.005	< 0.005	495	495	< 0.005	49.5	49.5	—	450	450	0.04	0.03	0.05	460
City Park	0.36	0.34	0.29	2.12	< 0.005	< 0.005	386	386	< 0.005	38.6	38.6	—	351	351	0.03	0.02	0.04	359
Strip Mall	68.7	64.1	55.7	400	0.65	0.62	72,786	72,786	0.58	7,283	7,284	—	66,283	66,283	5.43	4.18	7.91	67,671
Government (Civic Center)	4.49	4.20	3.64	26.2	0.04	0.04	4,763	4,763	0.04	477	477	—	4,338	4,338	0.36	0.27	0.52	4,429
Research & Development	33.7	31.4	27.3	196	0.32	0.30	35,683	35,683	0.28	3,571	3,571	—	32,495	32,495	2.66	2.05	3.88	33,175
Single Family Housing	17.3	16.2	14.0	101	0.16	0.16	18,356	18,356	0.15	1,837	1,837	—	16,716	16,716	1.37	1.05	1.99	17,066
Condo/Townhouse	5.58	5.21	4.53	32.6	0.05	0.05	5,920	5,920	0.05	592	592	—	5,391	5,391	0.44	0.34	0.64	5,504
Apartments Low Rise	9.22	8.61	7.47	53.8	0.09	0.08	9,770	9,770	0.08	978	978	—	8,897	8,897	0.73	0.56	1.06	9,084
Mobile Home Park	0.06	0.06	0.05	0.36	< 0.005	< 0.005	65.5	65.5	< 0.005	6.55	6.55	—	59.6	59.6	< 0.005	< 0.005	0.01	60.9
Total	145	135	117	843	1.37	1.30	153,287	153,289	1.22	15,339	15,340	—	139,592	139,592	11.4	8.79	16.7	142,515
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	0.66	0.62	0.51	3.65	0.01	0.01	0.28	0.29	0.01	0.07	0.08	—	591	591	0.04	0.04	1.17	604
Industrial Park	0.07	0.07	0.06	0.40	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	65.2	65.2	< 0.005	< 0.005	0.13	66.6

City Park	0.04	0.03	0.03	0.19	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	31.4	31.4	< 0.005	< 0.005	0.06	32.1
Strip Mall	11.3	10.5	8.72	62.2	0.11	0.10	4.86	4.96	0.10	1.25	1.34	—	10,081	10,081	0.76	0.61	20.0	10,300
Government (Civic Center)	0.57	0.54	0.45	3.18	0.01	0.01	0.25	0.25	< 0.005	0.06	0.07	—	515	515	0.04	0.03	1.02	526
Research & Development	4.53	4.24	3.51	25.0	0.04	0.04	1.95	1.99	0.04	0.50	0.54	—	4,053	4,053	0.31	0.24	8.03	4,141
Single Family Housing	3.01	2.82	2.33	16.6	0.03	0.03	1.30	1.33	0.03	0.33	0.36	—	2,698	2,698	0.20	0.16	5.34	2,757
Condo/Townhouse	0.91	0.85	0.70	5.02	0.01	0.01	0.39	0.40	0.01	0.10	0.11	—	814	814	0.06	0.05	1.61	831
Apartments Low Rise	1.50	1.40	1.16	8.29	0.01	0.01	0.65	0.66	0.01	0.17	0.18	—	1,343	1,343	0.10	0.08	2.66	1,372
Mobile Home Park	0.01	0.01	0.01	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.61	9.61	< 0.005	< 0.005	0.02	9.81
Total	22.6	21.1	17.5	125	0.22	0.21	9.73	9.94	0.19	2.50	2.69	—	20,200	20,200	1.52	1.21	40.0	20,640

## 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



High School	—	—	—	—	—	—	—	—	—	—	—	—	3,220	3,220	0.52	0.06	—	3,251
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	6,007	6,007	0.97	0.12	—	6,066
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	27,176	27,176	4.40	0.53	—	27,445
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	5,844	5,844	0.95	0.11	—	5,902
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	131,326	131,326	21.2	2.58	—	132,625
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	23,130	23,130	3.74	0.45	—	23,359
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	5,192	5,192	0.84	0.10	—	5,243
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	7,632	7,632	1.23	0.15	—	7,707
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	122	122	0.02	< 0.005	—	123
Total	—	—	—	—	—	—	—	—	—	—	—	—	209,649	209,649	33.9	4.11	—	211,722
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	3,220	3,220	0.52	0.06	—	3,251
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	6,007	6,007	0.97	0.12	—	6,066
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	27,176	27,176	4.40	0.53	—	27,445
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	5,844	5,844	0.95	0.11	—	5,902
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	131,326	131,326	21.2	2.58	—	132,625
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	23,130	23,130	3.74	0.45	—	23,359
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	5,192	5,192	0.84	0.10	—	5,243
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	7,632	7,632	1.23	0.15	—	7,707
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	122	122	0.02	< 0.005	—	123
Total	—	—	—	—	—	—	—	—	—	—	—	—	209,649	209,649	33.9	4.11	—	211,722
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	533	533	0.09	0.01	—	538
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	995	995	0.16	0.02	—	1,004
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	4,499	4,499	0.73	0.09	—	4,544
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	967	967	0.16	0.02	—	977

Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	21,743	21,743	3.52	0.43	—	21,958
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	3,829	3,829	0.62	0.08	—	3,867
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	860	860	0.14	0.02	—	868
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,264	1,264	0.20	0.02	—	1,276
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	20.1	20.1	< 0.005	< 0.005	—	20.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	34,710	34,710	5.62	0.68	—	35,053

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	1.56	0.78	14.2	11.9	0.08	1.08	—	1.08	1.08	—	1.08	—	16,903	16,903	1.50	0.03	—	16,950
Industrial Park	0.34	0.17	3.12	2.62	0.02	0.24	—	0.24	0.24	—	0.24	—	3,728	3,728	0.33	0.01	—	3,738
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	1.04	0.52	9.43	7.92	0.06	0.72	—	0.72	0.72	—	0.72	—	11,246	11,246	1.00	0.02	—	11,277

Government (Civic Center)	0.33	0.17	3.04	2.55	0.02	0.23	—	0.23	0.23	—	0.23	—	3,627	3,627	0.32	0.01	—	3,637
Research & Development	7.51	3.76	68.3	57.4	0.41	5.19	—	5.19	5.19	—	5.19	—	81,505	81,505	7.21	0.15	—	81,731
Single Family Housing	8.05	4.02	68.8	29.3	0.44	5.56	—	5.56	5.56	—	5.56	—	87,287	87,287	7.72	0.16	—	87,529
Condo/Townhouse	3.12	1.56	26.6	11.3	0.17	2.15	—	2.15	2.15	—	2.15	—	33,819	33,819	2.99	0.06	—	33,913
Apartments Low Rise	3.43	1.71	29.3	12.5	0.19	2.37	—	2.37	2.37	—	2.37	—	37,173	37,173	3.29	0.07	—	37,276
Mobile Home Park	0.05	0.03	0.43	0.18	< 0.005	0.03	—	0.03	0.03	—	0.03	—	548	548	0.05	< 0.005	—	549
Total	25.4	12.7	223	136	1.39	17.6	—	17.6	17.6	—	17.6	—	275,835	275,835	24.4	0.52	—	276,600
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	1.56	0.78	14.2	11.9	0.08	1.08	—	1.08	1.08	—	1.08	—	16,903	16,903	1.50	0.03	—	16,950
Industrial Park	0.34	0.17	3.12	2.62	0.02	0.24	—	0.24	0.24	—	0.24	—	3,728	3,728	0.33	0.01	—	3,738
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	1.04	0.52	9.43	7.92	0.06	0.72	—	0.72	0.72	—	0.72	—	11,246	11,246	1.00	0.02	—	11,277
Government (Civic Center)	0.33	0.17	3.04	2.55	0.02	0.23	—	0.23	0.23	—	0.23	—	3,627	3,627	0.32	0.01	—	3,637

Research & Development	7.51	3.76	68.3	57.4	0.41	5.19	—	5.19	5.19	—	5.19	—	81,505	81,505	7.21	0.15	—	81,731
Single Family Housing	8.05	4.02	68.8	29.3	0.44	5.56	—	5.56	5.56	—	5.56	—	87,287	87,287	7.72	0.16	—	87,529
Condo/Townhouse	3.12	1.56	26.6	11.3	0.17	2.15	—	2.15	2.15	—	2.15	—	33,819	33,819	2.99	0.06	—	33,913
Apartments Low Rise	3.43	1.71	29.3	12.5	0.19	2.37	—	2.37	2.37	—	2.37	—	37,173	37,173	3.29	0.07	—	37,276
Mobile Home Park	0.05	0.03	0.43	0.18	< 0.005	0.03	—	0.03	0.03	—	0.03	—	548	548	0.05	< 0.005	—	549
Total	25.4	12.7	223	136	1.39	17.6	—	17.6	17.6	—	17.6	—	275,835	275,835	24.4	0.52	—	276,600
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	0.28	0.14	2.59	2.17	0.02	0.20	—	0.20	0.20	—	0.20	—	2,798	2,798	0.25	0.01	—	2,806
Industrial Park	0.06	0.03	0.57	0.48	< 0.005	0.04	—	0.04	0.04	—	0.04	—	617	617	0.05	< 0.005	—	619
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.19	0.09	1.72	1.44	0.01	0.13	—	0.13	0.13	—	0.13	—	1,862	1,862	0.16	< 0.005	—	1,867
Government (Civic Center)	0.06	0.03	0.55	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	—	600	600	0.05	< 0.005	—	602
Research & Development	1.37	0.69	12.5	10.5	0.07	0.95	—	0.95	0.95	—	0.95	—	13,494	13,494	1.19	0.03	—	13,532
Single Family Housing	1.47	0.73	12.5	5.34	0.08	1.01	—	1.01	1.01	—	1.01	—	14,451	14,451	1.28	0.03	—	14,491

Condo/T	0.57	0.28	4.86	2.07	0.03	0.39	—	0.39	0.39	—	0.39	—	5,599	5,599	0.50	0.01	—	5,615
Apartments Low Rise	0.63	0.31	5.34	2.27	0.03	0.43	—	0.43	0.43	—	0.43	—	6,154	6,154	0.54	0.01	—	6,171
Mobile Home Park	0.01	< 0.005	0.08	0.03	< 0.005	0.01	—	0.01	0.01	—	0.01	—	90.6	90.6	0.01	< 0.005	—	90.9
Total	4.64	2.32	40.7	24.8	0.25	3.21	—	3.21	3.21	—	3.21	—	45,668	45,668	4.04	0.09	—	45,794

### 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	208	202	116	266	0.99	38.4	—	38.4	38.4	—	38.4	2,901	141,008	143,909	3.00	0.61	—	144,167
Consumer Products	—	860	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	75.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	227	212	15.1	1,625	0.08	1.94	—	1.94	1.46	—	1.46	—	5,573	5,573	0.23	0.05	—	5,593
Total	436	1,349	131	1,891	1.08	40.4	—	40.4	39.9	—	39.9	2,901	146,582	149,483	3.24	0.66	—	149,760
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	208	202	116	266	0.99	38.4	—	38.4	38.4	—	38.4	2,901	141,008	143,909	3.00	0.61	—	144,167

Consum Products	—	860	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	75.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total Annual	208	1,137	116	266	0.99	38.4	—	38.4	38.4	—	38.4	2,901	141,008	143,909	3.00	0.61	—	144,167
Hearths	27.1	19.3	9.46	87.2	0.39	12.8	—	12.8	12.4	—	12.4	2,582	7,675	10,257	12.2	0.03	—	10,573
Consum er Products	—	157	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	13.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipme nt	28.4	26.5	1.88	203	0.01	0.24	—	0.24	0.18	—	0.18	—	632	632	0.03	0.01	—	634
Total	55.5	216	11.3	290	0.40	13.0	—	13.0	12.5	—	12.5	2,582	8,307	10,889	12.3	0.04	—	11,207

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	81.8	129	211	8.41	0.20	—	481
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	228	360	588	23.5	0.56	—	1,343

City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	834	1,316	2,150	85.7	2.06	—	4,906
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	191	301	492	19.6	0.47	—	1,122
Research & Development	—	—	—	—	—	—	—	—	—	—	—	10,608	16,739	27,348	1,090	26.2	—	62,409
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	547	3,335	3,882	56.6	1.40	—	5,714
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	210	332	542	21.6	0.52	—	1,236
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	347	547	894	35.6	0.86	—	2,040
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	3.77	5.94	9.71	0.39	0.01	—	22.2
Total	—	—	—	—	—	—	—	—	—	—	—	13,050	23,065	36,116	1,342	32.2	—	79,273
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	81.8	129	211	8.41	0.20	—	481
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	228	360	588	23.5	0.56	—	1,343
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	834	1,316	2,150	85.7	2.06	—	4,906



Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	191	301	492	19.6	0.47	—	1,122
Research & Development	—	—	—	—	—	—	—	—	—	—	—	10,608	16,739	27,348	1,090	26.2	—	62,409
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	547	3,335	3,882	56.6	1.40	—	5,714
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	210	332	542	21.6	0.52	—	1,236
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	347	547	894	35.6	0.86	—	2,040
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	3.77	5.94	9.71	0.39	0.01	—	22.2
Total	—	—	—	—	—	—	—	—	—	—	—	13,050	23,065	36,116	1,342	32.2	—	79,273
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	13.5	21.4	34.9	1.39	0.03	—	79.7
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	37.8	59.6	97.4	3.88	0.09	—	222
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	138	218	356	14.2	0.34	—	812
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	31.6	49.8	81.4	3.25	0.08	—	186
Research & Development	—	—	—	—	—	—	—	—	—	—	—	1,756	2,771	4,528	181	4.33	—	10,332

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	90.5	552	643	9.37	0.23	—	946
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	34.8	54.9	89.7	3.58	0.09	—	205
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	57.4	90.6	148	5.90	0.14	—	338
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	0.62	0.98	1.61	0.06	< 0.005	—	3.67
Total	—	—	—	—	—	—	—	—	—	—	—	2,161	3,819	5,979	222	5.34	—	13,125

### 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	901	0.00	901	90.1	0.00	—	3,152
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	344	0.00	344	34.4	0.00	—	1,204
City Park	—	—	—	—	—	—	—	—	—	—	—	28.6	0.00	28.6	2.86	0.00	—	100
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	3,325	0.00	3,325	332	0.00	—	11,632
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	1,539	0.00	1,539	154	0.00	—	5,385

Researc & Development	—	—	—	—	—	—	—	—	—	—	—	461	0.00	461	46.1	0.00	—	1,613
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3,544	0.00	3,544	354	0.00	—	12,399
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1,045	0.00	1,045	104	0.00	—	3,657
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	1,725	0.00	1,725	172	0.00	—	6,036
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	18.7	0.00	18.7	1.87	0.00	—	65.5
Total	—	—	—	—	—	—	—	—	—	—	—	12,932	0.00	12,932	1,292	0.00	—	45,243
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	901	0.00	901	90.1	0.00	—	3,152
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	344	0.00	344	34.4	0.00	—	1,204
City Park	—	—	—	—	—	—	—	—	—	—	—	28.6	0.00	28.6	2.86	0.00	—	100
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	3,325	0.00	3,325	332	0.00	—	11,632
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	1,539	0.00	1,539	154	0.00	—	5,385
Researc h & Development	—	—	—	—	—	—	—	—	—	—	—	461	0.00	461	46.1	0.00	—	1,613
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3,544	0.00	3,544	354	0.00	—	12,399

Condo/T	—	—	—	—	—	—	—	—	—	—	—	1,045	0.00	1,045	104	0.00	—	3,657
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	1,725	0.00	1,725	172	0.00	—	6,036
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	18.7	0.00	18.7	1.87	0.00	—	65.5
Total	—	—	—	—	—	—	—	—	—	—	—	12,932	0.00	12,932	1,292	0.00	—	45,243
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	149	0.00	149	14.9	0.00	—	522
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	57.0	0.00	57.0	5.70	0.00	—	199
City Park	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	550	0.00	550	55.0	0.00	—	1,926
Governm ent (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	255	0.00	255	25.5	0.00	—	891
Researc & Development	—	—	—	—	—	—	—	—	—	—	—	76.3	0.00	76.3	7.63	0.00	—	267
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	587	0.00	587	58.6	0.00	—	2,053
Condo/T ownhous e	—	—	—	—	—	—	—	—	—	—	—	173	0.00	173	17.3	0.00	—	605
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	286	0.00	286	28.5	0.00	—	999
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	3.10	0.00	3.10	0.31	0.00	—	10.8

Total	—	—	—	—	—	—	—	—	—	—	—	—	2,141	0.00	2,141	214	0.00	—	7,491
-------	---	---	---	---	---	---	---	---	---	---	---	---	-------	------	-------	-----	------	---	-------

### 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.97	4.97
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	134	134
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	36.6	36.6
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288	288
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95.3	95.3
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9

Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.44	0.44
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	613	613
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.97	4.97
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	134	134
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	36.6	36.6
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288	288
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95.3	95.3
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.44	0.44
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	613	613
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.82	0.82
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.2	22.2
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.06	6.06
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47.6	47.6
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.8	15.8
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.30	3.30
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.44	5.44
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.07	0.07
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	102	102

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



### 4.9. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

## 5. Activity Data

### 5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
High School	1,055	296	129	297,057	5,273	1,479	643	1,485,284
Industrial Park	103	77.3	36.1	32,761	515	386	180	163,807
City Park	30.9	68.0	80.3	15,790	155	340	402	78,950
Strip Mall	15,158	14,394	6,991	5,066,852	75,788	71,969	34,956	25,334,259
Government (Civic Center)	992	0.00	0.00	258,623	4,960	0.00	0.00	1,293,117
Research & Development	7,431	1,238	676	2,037,155	37,155	6,192	3,378	10,185,776
Single Family Housing	3,754	3,823	3,413	1,356,082	18,772	19,113	17,065	6,780,412
Condo/Townhouse	1,128	1,233	971	408,944	5,639	6,164	4,853	2,044,722
Apartments Low Rise	1,861	2,035	1,602	674,922	9,307	10,173	8,009	3,374,610
Mobile Home Park	13.6	12.7	11.8	4,828	68.1	63.5	58.8	24,140

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	205
Gas Fireplaces	6143
Propane Fireplaces	478
Electric Fireplaces	0
No Fireplaces	0

Conventional Wood Stoves	0
Catalytic Wood Stoves	341
Non-Catalytic Wood Stoves	341
Pellet Wood Stoves	478
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	2623
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	4329
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Mobile Home Park	—
Wood Fireplaces	0
Gas Fireplaces	47

Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
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)
42000363	14,000,121	29,154,000	9,718,000	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
High School	5,761,116	204	0.0330	0.0040	52,742,058
Industrial Park	10,748,758	204	0.0330	0.0040	11,632,796
City Park	0.00	204	0.0330	0.0040	0.00
Strip Mall	48,628,505	204	0.0330	0.0040	35,090,651

Government (Civic Center)	10,456,558	204	0.0330	0.0040	11,316,565
Research & Development	234,990,802	204	0.0330	0.0040	254,317,769
Single Family Housing	41,388,447	204	0.0330	0.0040	272,358,208
Condo/Townhouse	9,289,753	204	0.0330	0.0040	105,524,601
Apartments Low Rise	13,656,250	204	0.0330	0.0040	115,988,822
Mobile Home Park	217,555	204	0.0330	0.0040	1,708,380

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
High School	42,701,167	0.00
Industrial Park	119,093,750	0.00
City Park	0.00	0.00
Strip Mall	435,176,064	0.00
Government (Civic Center)	99,528,503	0.00
Research & Development	5,535,982,152	0.00
Single Family Housing	285,375,265	1,143,555,007
Condo/Townhouse	109,660,023	0.00
Apartments Low Rise	180,982,936	0.00
Mobile Home Park	1,964,934	0.00

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
High School	1,672	—

Industrial Park	639	—
City Park	53.1	—
Strip Mall	6,169	—
Government (Civic Center)	2,856	—
Research & Development	856	—
Single Family Housing	6,576	—
Condo/Townhouse	1,940	—
Apartments Low Rise	3,201	—
Mobile Home Park	34.7	—

### 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
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00



Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government (Civic Center)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Research & Development	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Research & Development	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Mobile Home Park	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Mobile Home Park	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
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### 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
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#### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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### 5.17. User Defined

Equipment Type	Fuel Type
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### 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
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#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	31.3	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
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Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	13.6
AQ-PM	2.92
AQ-DPM	26.4
Drinking Water	38.7
Lead Risk Housing	56.7
Pesticides	0.00
Toxic Releases	0.54
Traffic	27.1
Effect Indicators	—
CleanUp Sites	83.0
Groundwater	87.5
Haz Waste Facilities/Generators	30.6
Impaired Water Bodies	77.3
Solid Waste	59.2
Sensitive Population	—
Asthma	35.9
Cardio-vascular	13.1
Low Birth Weights	19.9
Socioeconomic Factor Indicators	—

Education	24.1
Housing	64.0
Linguistic	24.8
Poverty	26.7
Unemployment	37.7

### 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	64.9557295
Employed	60.78532016
Median HI	46.47760811
Education	—
Bachelor's or higher	81.58603875
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	57.21801617
Active commuting	87.89939689
Social	—
2-parent households	65.78981137
Voting	70.98678301
Neighborhood	—
Alcohol availability	40.65186706
Park access	81.35506224
Retail density	93.41716925

Supermarket access	64.09598358
Tree canopy	81.52187861
Housing	—
Homeownership	12.72937251
Housing habitability	27.37071731
Low-inc homeowner severe housing cost burden	19.88964455
Low-inc renter severe housing cost burden	39.67663288
Uncrowded housing	84.29359682
Health Outcomes	—
Insured adults	64.90440139
Arthritis	0.0
Asthma ER Admissions	75.6
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	79.6
Cognitively Disabled	32.0
Physically Disabled	36.0
Heart Attack ER Admissions	94.8
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	84.3
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	4.5
SLR Inundation Area	47.2
Children	88.7
Elderly	20.2
English Speaking	64.4
Foreign-born	44.0
Outdoor Workers	70.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	31.0
Traffic Density	1.4
Traffic Access	0.0
Other Indices	—
Hardship	20.0
Other Decision Support	—
2016 Voting	74.8

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	22.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No



# Monterey GPU Future 2031 Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Monterey GPU Future 2031
Operational Year	2031
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	27.6
Location	36.598122450759476, -121.89086679211236
County	Monterey
City	Monterey
Air District	Monterey Bay ARD
Air Basin	North Central Coast
TAZ	3238
EDFZ	6
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

## 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
High School	1,686	1000sqft	38.7	1,686,000	0.00	0.00	—	Education and Self Employed jobs to sqft

Industrial Park	642	1000sqft	14.7	642,000	0.00	—	—	Manufacturing and Wholesale jobs to sqft
City Park	618	Acre	618	0.00	0.00	0.00	—	Park/open space acres.
Strip Mall	7,514	1000sqft	172	7,514,000	0.00	—	—	Retail, Finance and Real Estate, and Services jobs to sqft
Government (Civic Center)	674	1000sqft	15.5	674,000	0.00	—	—	Public Administration jobs to sqft
Research & Development	14,005	1000sqft	322	14,005,000	0.00	—	—	—
Single Family Housing	7,057	Dwelling Unit	2,291	13,761,150	82,657,632	—	23,429	One-unit detached or attached
Condo/Townhouse	2,623	Dwelling Unit	164	2,780,380	0.00	—	8,708	Multifamily 2-4 units
Apartments Low Rise	9,877	Dwelling Unit	617	10,469,620	0.00	—	32,792	Multifamily 5+ units
Mobile Home Park	47.0	Dwelling Unit	5.92	61,100	0.00	—	156	Mobile homes

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Transportation	T-4	Integrate Affordable and Below Market Rate Housing
Transportation	T-19-A	Construct or Improve Bike Facility
Transportation	T-19-B	Construct or Improve Bike Boulevard
Transportation	T-24	Implement Market Price Public Parking (On-Street)
Transportation	T-34*	Provide Bike Parking
Transportation	T-35*	Provide Traffic Calming Measures
Transportation	T-46*	Improve Transit Access, Safety, and Comfort
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-11	Procure Electricity from Lower Carbon Intensity Power Supply



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

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	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.	691	1,841	515	3,430	4.83	66.1	242,219	242,285	65.5	24,237	24,303	36,679	995,781	1,032,460	3,501	56.3	1,237	1,137,995
Mit.	691	1,841	513	3,428	4.82	66.0	241,713	241,779	65.4	24,187	24,252	36,679	993,951	1,030,630	3,501	56.3	1,236	1,136,155
% Reduced	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	399	1,568	510	1,287	4.63	63.7	242,219	242,282	63.6	24,237	24,301	36,679	980,142	1,016,822	3,502	57.2	786	1,122,210
Mit.	398	1,568	509	1,285	4.62	63.6	241,713	241,776	63.5	24,187	24,250	36,679	978,330	1,015,009	3,502	57.2	786	1,120,387
% Reduced	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	514	1,634	438	2,845	5.67	97.8	83.6	181	95.0	21.5	116	49,802	863,723	913,526	3,573	55.2	948	1,020,254
Mit.	514	1,634	437	2,843	5.66	97.7	83.4	181	94.9	21.4	116	49,802	861,960	911,763	3,573	55.2	947	1,018,481
% Reduced	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	93.9	298	80.0	519	1.04	17.8	15.3	33.1	17.3	3.92	21.3	8,245	142,999	151,245	592	9.14	157	168,915
Mit.	93.8	298	79.8	519	1.03	17.8	15.2	33.1	17.3	3.91	21.2	8,245	142,707	150,953	592	9.13	157	168,621
% Reduced	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%

## 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	152	143	86.4	798	1.89	1.27	242,219	242,220	1.19	24,237	24,238	—	192,880	192,880	9.35	9.05	464	196,274
Area	507	1,682	140	2,458	1.14	42.1	—	42.1	41.5	—	41.5	2,999	153,139	156,139	3.41	0.70	—	156,432
Energy	32.9	16.5	289	174	1.79	22.7	—	22.7	22.7	—	22.7	—	621,199	621,199	74.3	5.86	—	624,802
Water	—	—	—	—	—	—	—	—	—	—	—	16,481	28,562	45,043	1,695	40.7	—	99,539
Waste	—	—	—	—	—	—	—	—	—	—	—	17,199	0.00	17,199	1,719	0.00	—	60,174
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	774	774
Total	691	1,841	515	3,430	4.83	66.1	242,219	242,285	65.5	24,237	24,303	36,679	995,781	1,032,460	3,501	56.3	1,237	1,137,995
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	150	142	102	838	1.81	1.27	242,219	242,220	1.19	24,237	24,238	—	184,601	184,601	11.1	10.0	12.0	187,875
Area	215	1,410	120	275	1.03	39.7	—	39.7	39.7	—	39.7	2,999	145,780	148,780	3.11	0.63	—	149,046
Energy	32.9	16.5	289	174	1.79	22.7	—	22.7	22.7	—	22.7	—	621,199	621,199	74.3	5.86	—	624,802
Water	—	—	—	—	—	—	—	—	—	—	—	16,481	28,562	45,043	1,695	40.7	—	99,539
Waste	—	—	—	—	—	—	—	—	—	—	—	17,199	0.00	17,199	1,719	0.00	—	60,174
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	774	774

Total	399	1,568	510	1,287	4.63	63.7	242,219	242,282	63.6	24,237	24,301	36,679	980,142	1,016,82	3,502	57.2	786	1,122,21
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	129	121	82.9	682	1.58	1.10	83.6	84.7	1.03	21.5	22.5	—	160,994	160,994	8.95	8.36	174	163,883
Area	353	1,496	66.8	1,989	2.30	73.9	—	73.9	71.2	—	71.2	16,122	52,968	69,091	76.6	0.25	—	71,081
Energy	32.9	16.5	289	174	1.79	22.7	—	22.7	22.7	—	22.7	—	621,199	621,199	74.3	5.86	—	624,802
Water	—	—	—	—	—	—	—	—	—	—	—	16,481	28,562	45,043	1,695	40.7	—	99,539
Waste	—	—	—	—	—	—	—	—	—	—	—	17,199	0.00	17,199	1,719	0.00	—	60,174
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	774	774
Total	514	1,634	438	2,845	5.67	97.8	83.6	181	95.0	21.5	116	49,802	863,723	913,526	3,573	55.2	948	1,020,254
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	23.5	22.1	15.1	124	0.29	0.20	15.3	15.5	0.19	3.92	4.10	—	26,654	26,654	1.48	1.38	28.8	27,133
Area	64.4	273	12.2	363	0.42	13.5	—	13.5	13.0	—	13.0	2,669	8,770	11,439	12.7	0.04	—	11,768
Energy	6.00	3.00	52.7	31.8	0.33	4.15	—	4.15	4.15	—	4.15	—	102,847	102,847	12.3	0.97	—	103,443
Water	—	—	—	—	—	—	—	—	—	—	—	2,729	4,729	7,457	281	6.74	—	16,480
Waste	—	—	—	—	—	—	—	—	—	—	—	2,848	0.00	2,848	285	0.00	—	9,963
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	128	128
Total	93.9	298	80.0	519	1.04	17.8	15.3	33.1	17.3	3.92	21.3	8,245	142,999	151,245	592	9.14	157	168,915

## 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	151	143	86.2	797	1.89	1.26	241,713	241,714	1.18	24,187	24,188	—	192,477	192,477	9.34	9.03	463	195,865
Area	507	1,682	140	2,458	1.14	42.1	—	42.1	41.5	—	41.5	2,999	153,139	156,139	3.41	0.70	—	156,432
Energy	32.8	16.4	287	174	1.79	22.6	—	22.6	22.6	—	22.6	—	619,772	619,772	74.2	5.85	—	623,372

Water	—	—	—	—	—	—	—	—	—	—	—	16,481	28,562	45,043	1,695	40.7	—	99,539
Waste	—	—	—	—	—	—	—	—	—	—	—	17,199	0.00	17,199	1,719	0.00	—	60,174
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	774	774
Total	691	1,841	513	3,428	4.82	66.0	241,713	241,779	65.4	24,187	24,252	36,679	993,951	1,030,630	3,501	56.3	1,236	1,136,155
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	150	141	101	837	1.81	1.26	241,713	241,714	1.18	24,187	24,188	—	184,215	184,215	11.1	9.99	12.0	187,482
Area	215	1,410	120	275	1.03	39.7	—	39.7	39.7	—	39.7	2,999	145,780	148,780	3.11	0.63	—	149,046
Energy	32.8	16.4	287	174	1.79	22.6	—	22.6	22.6	—	22.6	—	619,772	619,772	74.2	5.85	—	623,372
Water	—	—	—	—	—	—	—	—	—	—	—	16,481	28,562	45,043	1,695	40.7	—	99,539
Waste	—	—	—	—	—	—	—	—	—	—	—	17,199	0.00	17,199	1,719	0.00	—	60,174
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	774	774
Total	398	1,568	509	1,285	4.62	63.6	241,713	241,776	63.5	24,187	24,250	36,679	978,330	1,015,009	3,502	57.2	786	1,120,387
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	128	121	82.8	680	1.58	1.10	83.4	84.5	1.03	21.4	22.4	—	160,658	160,658	8.93	8.34	174	163,541
Area	353	1,496	66.8	1,989	2.30	73.9	—	73.9	71.2	—	71.2	16,122	52,968	69,091	76.6	0.25	—	71,081
Energy	32.8	16.4	287	174	1.79	22.6	—	22.6	22.6	—	22.6	—	619,772	619,772	74.2	5.85	—	623,372
Water	—	—	—	—	—	—	—	—	—	—	—	16,481	28,562	45,043	1,695	40.7	—	99,539
Waste	—	—	—	—	—	—	—	—	—	—	—	17,199	0.00	17,199	1,719	0.00	—	60,174
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	774	774
Total	514	1,634	437	2,843	5.66	97.7	83.4	181	94.9	21.4	116	49,802	861,960	911,763	3,573	55.2	947	1,018,481
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	23.4	22.1	15.1	124	0.29	0.20	15.2	15.4	0.19	3.91	4.10	—	26,599	26,599	1.48	1.38	28.7	27,076
Area	64.4	273	12.2	363	0.42	13.5	—	13.5	13.0	—	13.0	2,669	8,770	11,439	12.7	0.04	—	11,768
Energy	5.98	2.99	52.5	31.7	0.33	4.13	—	4.13	4.13	—	4.13	—	102,610	102,610	12.3	0.97	—	103,206

Water	—	—	—	—	—	—	—	—	—	—	—	2,729	4,729	7,457	281	6.74	—	16,480
Waste	—	—	—	—	—	—	—	—	—	—	—	2,848	0.00	2,848	285	0.00	—	9,963
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	128	128
Total	93.8	298	79.8	519	1.03	17.8	15.2	33.1	17.3	3.91	21.2	8,245	142,707	150,953	592	9.13	157	168,621

## 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	5.06	4.79	2.88	26.6	0.06	0.04	8,083	8,083	0.04	809	809	—	6,437	6,437	0.31	0.30	15.5	6,550
Industrial Park	0.46	0.44	0.26	2.43	0.01	< 0.005	737	737	< 0.005	73.8	73.8	—	587	587	0.03	0.03	1.41	598
City Park	0.29	0.27	0.17	1.53	< 0.005	< 0.005	463	463	< 0.005	46.3	46.3	—	369	369	0.02	0.02	0.89	375
Strip Mall	70.9	67.1	40.4	374	0.89	0.59	113,326	113,326	0.55	11,340	11,340	—	90,242	90,242	4.38	4.23	217	91,830
Government (Civic Center)	4.88	4.62	2.79	25.7	0.06	0.04	7,809	7,809	0.04	781	781	—	6,218	6,218	0.30	0.29	14.9	6,328
Research & Development	33.7	31.9	19.2	178	0.42	0.28	53,855	53,855	0.26	5,389	5,389	—	42,885	42,885	2.08	2.01	103	43,640

Single Family Housing	14.3	13.6	8.17	75.5	0.18	0.12	22,908	22,908	0.11	2,292	2,292	—	18,242	18,242	0.88	0.86	43.8	18,563
Condo/Townhouse	4.59	4.34	2.62	24.2	0.06	0.04	7,336	7,336	0.04	734	734	—	5,841	5,841	0.28	0.27	14.0	5,944
Apartments Low Rise	17.3	16.4	9.85	91.0	0.22	0.14	27,623	27,623	0.14	2,764	2,764	—	21,996	21,996	1.07	1.03	52.9	22,383
Mobile Home Park	0.05	0.05	0.03	0.26	< 0.005	< 0.005	79.8	79.8	< 0.005	7.99	7.99	—	63.5	63.5	< 0.005	< 0.005	0.15	64.7
Total	152	143	86.4	798	1.89	1.27	242,219	242,220	1.19	24,237	24,238	—	192,880	192,880	9.35	9.05	464	196,274
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	5.02	4.72	3.39	28.0	0.06	0.04	8,083	8,083	0.04	809	809	—	6,160	6,160	0.37	0.33	0.40	6,270
Industrial Park	0.46	0.43	0.31	2.55	0.01	< 0.005	737	737	< 0.005	73.8	73.8	—	562	562	0.03	0.03	0.04	572
City Park	0.29	0.27	0.19	1.60	< 0.005	< 0.005	463	463	< 0.005	46.3	46.3	—	353	353	0.02	0.02	0.02	359
Strip Mall	70.3	66.2	47.5	392	0.85	0.59	113,326	113,326	0.56	11,340	11,340	—	86,368	86,368	5.19	4.69	5.62	87,900
Government (Civic Center)	4.85	4.56	3.27	27.0	0.06	0.04	7,809	7,809	0.04	781	781	—	5,951	5,951	0.36	0.32	0.39	6,057
Research & Development	33.4	31.5	22.6	186	0.40	0.28	53,855	53,855	0.26	5,389	5,389	—	41,044	41,044	2.47	2.23	2.67	41,772
Single Family Housing	14.2	13.4	9.60	79.3	0.17	0.12	22,908	22,908	0.11	2,292	2,292	—	17,459	17,459	1.05	0.95	1.14	17,768
Condo/Townhouse	4.55	4.29	3.07	25.4	0.05	0.04	7,336	7,336	0.04	734	734	—	5,591	5,591	0.34	0.30	0.36	5,690

Apartme Low Rise	17.1	16.1	11.6	95.6	0.21	0.14	27,623	27,623	0.14	2,764	2,764	—	21,052	21,052	1.27	1.14	1.37	21,425
Mobile Home Park	0.05	0.05	0.03	0.28	< 0.005	< 0.005	79.8	79.8	< 0.005	7.99	7.99	—	60.8	60.8	< 0.005	< 0.005	< 0.005	61.9
Total	150	142	102	838	1.81	1.27	242,219	242,220	1.19	24,237	24,238	—	184,601	184,601	11.1	10.0	12.0	187,875
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	0.70	0.66	0.45	3.69	0.01	0.01	0.45	0.46	0.01	0.12	0.12	—	790	790	0.04	0.04	0.85	804
Industrial Park	0.07	0.07	0.05	0.38	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	81.2	81.2	< 0.005	< 0.005	0.09	82.6
City Park	0.03	0.02	0.02	0.14	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	29.6	29.6	< 0.005	< 0.005	0.03	30.1
Strip Mall	11.6	10.9	7.46	61.3	0.14	0.10	7.52	7.62	0.09	1.93	2.02	—	13,138	13,138	0.73	0.68	14.2	13,374
Governm ent (Civic Center)	0.62	0.59	0.40	3.30	0.01	0.01	0.40	0.41	< 0.005	0.10	0.11	—	706	706	0.04	0.04	0.76	719
Researc h & Development	4.52	4.26	2.92	24.0	0.06	0.04	2.94	2.98	0.04	0.75	0.79	—	5,135	5,135	0.29	0.27	5.55	5,228
Single Family Housing	2.48	2.34	1.60	13.2	0.03	0.02	1.62	1.64	0.02	0.41	0.43	—	2,824	2,824	0.16	0.15	3.05	2,874
Condo/T ownhous e	0.73	0.69	0.47	3.86	0.01	0.01	0.47	0.48	0.01	0.12	0.13	—	827	827	0.05	0.04	0.89	842
Apartme nts Low Rise	2.74	2.58	1.77	14.5	0.03	0.02	1.78	1.81	0.02	0.46	0.48	—	3,113	3,113	0.17	0.16	3.36	3,169
Mobile Home Park	0.01	0.01	0.01	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	9.76	9.76	< 0.005	< 0.005	0.01	9.94
Total	23.5	22.1	15.1	124	0.29	0.20	15.3	15.5	0.19	3.92	4.10	—	26,654	26,654	1.48	1.38	28.8	27,133

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	5.05	4.78	2.88	26.6	0.06	0.04	8,066	8,066	0.04	807	807	—	6,423	6,423	0.31	0.30	15.4	6,536
Industrial Park	0.46	0.44	0.26	2.43	0.01	< 0.005	736	736	< 0.005	73.6	73.6	—	586	586	0.03	0.03	1.41	596
City Park	0.29	0.27	0.16	1.52	< 0.005	< 0.005	462	462	< 0.005	46.2	46.2	—	368	368	0.02	0.02	0.88	374
Strip Mall	70.7	67.0	40.3	373	0.88	0.59	113,089	113,090	0.55	11,316	11,317	—	90,053	90,053	4.37	4.23	216	91,638
Government (Civic Center)	4.87	4.62	2.78	25.7	0.06	0.04	7,793	7,793	0.04	780	780	—	6,205	6,205	0.30	0.29	14.9	6,315
Research & Development	33.6	31.8	19.2	177	0.42	0.28	53,742	53,743	0.26	5,378	5,378	—	42,795	42,795	2.08	2.01	103	43,548
Single Family Housing	14.3	13.5	8.16	75.3	0.18	0.12	22,860	22,860	0.11	2,287	2,288	—	18,204	18,204	0.88	0.85	43.7	18,524
Condo/Townhouse	4.58	4.34	2.61	24.1	0.06	0.04	7,320	7,320	0.04	732	733	—	5,829	5,829	0.28	0.27	14.0	5,932
Apartments Low Rise	17.2	16.3	9.83	90.9	0.22	0.14	27,565	27,565	0.13	2,758	2,758	—	21,950	21,950	1.06	1.03	52.8	22,336
Mobile Home Park	0.05	0.05	0.03	0.26	< 0.005	< 0.005	79.6	79.6	< 0.005	7.97	7.97	—	63.4	63.4	< 0.005	< 0.005	0.15	64.5
Total	151	143	86.2	797	1.89	1.26	241,713	241,714	1.18	24,187	24,188	—	192,477	192,477	9.34	9.03	463	195,865



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	5.01	4.71	3.38	27.9	0.06	0.04	8,066	8,066	0.04	807	807	—	6,147	6,147	0.37	0.33	0.40	6,257
Industrial Park	0.46	0.43	0.31	2.55	0.01	< 0.005	736	736	< 0.005	73.6	73.6	—	561	561	0.03	0.03	0.04	571
City Park	0.29	0.27	0.19	1.60	< 0.005	< 0.005	462	462	< 0.005	46.2	46.2	—	352	352	0.02	0.02	0.02	358
Strip Mall	70.2	66.1	47.4	391	0.85	0.59	113,089	113,090	0.55	11,316	11,317	—	86,188	86,188	5.18	4.68	5.61	87,716
Government (Civic Center)	4.84	4.55	3.27	27.0	0.06	0.04	7,793	7,793	0.04	780	780	—	5,939	5,939	0.36	0.32	0.39	6,044
Research & Development	33.4	31.4	22.5	186	0.40	0.28	53,742	53,743	0.26	5,378	5,378	—	40,958	40,958	2.46	2.22	2.67	41,685
Single Family Housing	14.2	13.4	9.58	79.1	0.17	0.12	22,860	22,860	0.11	2,287	2,288	—	17,422	17,422	1.05	0.95	1.13	17,731
Condo/Townhouse	4.54	4.28	3.07	25.3	0.05	0.04	7,320	7,320	0.04	732	733	—	5,579	5,579	0.34	0.30	0.36	5,678
Apartments Low Rise	17.1	16.1	11.6	95.4	0.21	0.14	27,565	27,565	0.14	2,758	2,758	—	21,008	21,008	1.26	1.14	1.37	21,380
Mobile Home Park	0.05	0.05	0.03	0.28	< 0.005	< 0.005	79.6	79.6	< 0.005	7.97	7.97	—	60.7	60.7	< 0.005	< 0.005	< 0.005	61.8
Total	150	141	101	837	1.81	1.26	241,713	241,714	1.18	24,187	24,188	—	184,215	184,215	11.1	9.99	12.0	187,482
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	0.69	0.65	0.45	3.68	0.01	0.01	0.45	0.46	0.01	0.12	0.12	—	789	789	0.04	0.04	0.85	803
Industrial Park	0.07	0.07	0.05	0.38	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	81.0	81.0	< 0.005	< 0.005	0.09	82.5

City Park	0.03	0.02	0.02	0.14	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	29.5	29.5	< 0.005	< 0.005	0.03	30.1
Strip Mall	11.5	10.9	7.44	61.2	0.14	0.10	7.51	7.61	0.09	1.93	2.02	—	13,111	13,111	0.73	0.68	14.2	13,346
Government (Civic Center)	0.62	0.58	0.40	3.29	0.01	0.01	0.40	0.41	< 0.005	0.10	0.11	—	705	705	0.04	0.04	0.76	717
Research & Development	4.51	4.25	2.91	23.9	0.06	0.04	2.93	2.97	0.04	0.75	0.79	—	5,125	5,125	0.28	0.27	5.54	5,217
Single Family Housing	2.48	2.34	1.60	13.2	0.03	0.02	1.61	1.63	0.02	0.41	0.43	—	2,818	2,818	0.16	0.15	3.04	2,868
Condo/Townhouse	0.73	0.68	0.47	3.85	0.01	0.01	0.47	0.48	0.01	0.12	0.13	—	825	825	0.05	0.04	0.89	840
Apartments Low Rise	2.73	2.58	1.76	14.5	0.03	0.02	1.78	1.80	0.02	0.46	0.48	—	3,107	3,107	0.17	0.16	3.36	3,163
Mobile Home Park	0.01	0.01	0.01	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	9.74	9.74	< 0.005	< 0.005	0.01	9.92
Total	23.4	22.1	15.1	124	0.29	0.20	15.2	15.4	0.19	3.91	4.10	—	26,599	26,599	1.48	1.38	28.7	27,076

## 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

High School	—	—	—	—	—	—	—	—	—	—	—	—	4,221	4,221	0.68	0.08	—	4,263
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,488	7,488	1.21	0.15	—	7,562
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	34,758	34,758	5.62	0.68	—	35,102
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	7,862	7,862	1.27	0.15	—	7,939
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	163,356	163,356	26.4	3.20	—	164,971
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	23,913	23,913	3.87	0.47	—	24,149
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	5,192	5,192	0.84	0.10	—	5,243
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	17,413	17,413	2.82	0.34	—	17,585
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	122	122	0.02	< 0.005	—	123
Total	—	—	—	—	—	—	—	—	—	—	—	—	264,324	264,324	42.8	5.18	—	266,938
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	4,221	4,221	0.68	0.08	—	4,263
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,488	7,488	1.21	0.15	—	7,562
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	34,758	34,758	5.62	0.68	—	35,102
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	7,862	7,862	1.27	0.15	—	7,939
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	163,356	163,356	26.4	3.20	—	164,971
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	23,913	23,913	3.87	0.47	—	24,149
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	5,192	5,192	0.84	0.10	—	5,243
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	17,413	17,413	2.82	0.34	—	17,585
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	122	122	0.02	< 0.005	—	123
Total	—	—	—	—	—	—	—	—	—	—	—	—	264,324	264,324	42.8	5.18	—	266,938
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	699	699	0.11	0.01	—	706
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	1,240	1,240	0.20	0.02	—	1,252
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	5,755	5,755	0.93	0.11	—	5,811
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	1,302	1,302	0.21	0.03	—	1,314

Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	27,045	27,045	4.38	0.53	—	27,313
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	3,959	3,959	0.64	0.08	—	3,998
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	860	860	0.14	0.02	—	868
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,883	2,883	0.47	0.06	—	2,911
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	20.1	20.1	< 0.005	< 0.005	—	20.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	43,762	43,762	7.08	0.86	—	44,195

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	4,221	4,221	0.68	0.08	—	4,263
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,488	7,488	1.21	0.15	—	7,562
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	34,758	34,758	5.62	0.68	—	35,102

Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	7,862	7,862	1.27	0.15	—	7,939
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	163,356	163,356	26.4	3.20	—	164,971
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	23,913	23,913	3.87	0.47	—	24,149
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	5,192	5,192	0.84	0.10	—	5,243
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	17,389	17,389	2.81	0.34	—	17,561
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	122	122	0.02	< 0.005	—	123
Total	—	—	—	—	—	—	—	—	—	—	—	—	264,300	264,300	42.8	5.18	—	266,913
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	4,221	4,221	0.68	0.08	—	4,263
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,488	7,488	1.21	0.15	—	7,562
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	34,758	34,758	5.62	0.68	—	35,102
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	7,862	7,862	1.27	0.15	—	7,939

Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	163,356	163,356	26.4	3.20	—	164,971
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	23,913	23,913	3.87	0.47	—	24,149
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	5,192	5,192	0.84	0.10	—	5,243
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	17,389	17,389	2.81	0.34	—	17,561
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	122	122	0.02	< 0.005	—	123
Total	—	—	—	—	—	—	—	—	—	—	—	—	264,300	264,300	42.8	5.18	—	266,913
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	699	699	0.11	0.01	—	706
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	1,240	1,240	0.20	0.02	—	1,252
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	5,755	5,755	0.93	0.11	—	5,811
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	1,302	1,302	0.21	0.03	—	1,314
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	27,045	27,045	4.38	0.53	—	27,313
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	3,959	3,959	0.64	0.08	—	3,998

Condo/T	—	—	—	—	—	—	—	—	—	—	—	—	860	860	0.14	0.02	—	868
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,879	2,879	0.47	0.06	—	2,907
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	20.1	20.1	< 0.005	< 0.005	—	20.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	43,758	43,758	7.08	0.86	—	44,191

#### 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	2.04	1.02	18.6	15.6	0.11	1.41	—	1.41	1.41	—	1.41	—	22,161	22,161	1.96	0.04	—	22,222
Industrial Park	0.43	0.21	3.90	3.27	0.02	0.30	—	0.30	0.30	—	0.30	—	4,648	4,648	0.41	0.01	—	4,660
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	1.33	0.66	12.1	10.1	0.07	0.92	—	0.92	0.92	—	0.92	—	14,383	14,383	1.27	0.03	—	14,423
Government (Civic Center)	0.45	0.22	4.09	3.43	0.02	0.31	—	0.31	0.31	—	0.31	—	4,879	4,879	0.43	0.01	—	4,893
Research & Development	9.35	4.67	85.0	71.4	0.51	6.46	—	6.46	6.46	—	6.46	—	101,384	101,384	8.97	0.19	—	101,665
Single Family Housing	8.32	4.16	71.1	30.3	0.45	5.75	—	5.75	5.75	—	5.75	—	90,241	90,241	7.99	0.17	—	90,491



Condo/Townhouse	3.12	1.56	26.6	11.3	0.17	2.15	—	2.15	2.15	—	2.15	—	33,819	33,819	2.99	0.06	—	33,913
Apartments Low Rise	7.82	3.91	66.8	28.4	0.43	5.40	—	5.40	5.40	—	5.40	—	84,813	84,813	7.51	0.16	—	85,048
Mobile Home Park	0.05	0.03	0.43	0.18	< 0.005	0.03	—	0.03	0.03	—	0.03	—	548	548	0.05	< 0.005	—	549
Total	32.9	16.5	289	174	1.79	22.7	—	22.7	22.7	—	22.7	—	356,875	356,875	31.6	0.67	—	357,864
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	2.04	1.02	18.6	15.6	0.11	1.41	—	1.41	1.41	—	1.41	—	22,161	22,161	1.96	0.04	—	22,222
Industrial Park	0.43	0.21	3.90	3.27	0.02	0.30	—	0.30	0.30	—	0.30	—	4,648	4,648	0.41	0.01	—	4,660
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	1.33	0.66	12.1	10.1	0.07	0.92	—	0.92	0.92	—	0.92	—	14,383	14,383	1.27	0.03	—	14,423
Government (Civic Center)	0.45	0.22	4.09	3.43	0.02	0.31	—	0.31	0.31	—	0.31	—	4,879	4,879	0.43	0.01	—	4,893
Research & Development	9.35	4.67	85.0	71.4	0.51	6.46	—	6.46	6.46	—	6.46	—	101,384	101,384	8.97	0.19	—	101,665
Single Family Housing	8.32	4.16	71.1	30.3	0.45	5.75	—	5.75	5.75	—	5.75	—	90,241	90,241	7.99	0.17	—	90,491
Condo/Townhouse	3.12	1.56	26.6	11.3	0.17	2.15	—	2.15	2.15	—	2.15	—	33,819	33,819	2.99	0.06	—	33,913
Apartments Low Rise	7.82	3.91	66.8	28.4	0.43	5.40	—	5.40	5.40	—	5.40	—	84,813	84,813	7.51	0.16	—	85,048

Mobile Home Park	0.05	0.03	0.43	0.18	< 0.005	0.03	—	0.03	0.03	—	0.03	—	548	548	0.05	< 0.005	—	549
Total	32.9	16.5	289	174	1.79	22.7	—	22.7	22.7	—	22.7	—	356,875	356,875	31.6	0.67	—	357,864
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	0.37	0.19	3.39	2.85	0.02	0.26	—	0.26	0.26	—	0.26	—	3,669	3,669	0.32	0.01	—	3,679
Industrial Park	0.08	0.04	0.71	0.60	< 0.005	0.05	—	0.05	0.05	—	0.05	—	769	769	0.07	< 0.005	—	772
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.24	0.12	2.20	1.85	0.01	0.17	—	0.17	0.17	—	0.17	—	2,381	2,381	0.21	< 0.005	—	2,388
Government Center (Civic Center)	0.08	0.04	0.75	0.63	< 0.005	0.06	—	0.06	0.06	—	0.06	—	808	808	0.07	< 0.005	—	810
Research & Development	1.71	0.85	15.5	13.0	0.09	1.18	—	1.18	1.18	—	1.18	—	16,785	16,785	1.49	0.03	—	16,832
Single Family Housing	1.52	0.76	13.0	5.52	0.08	1.05	—	1.05	1.05	—	1.05	—	14,940	14,940	1.32	0.03	—	14,982
Condo/Townhouse	0.57	0.28	4.86	2.07	0.03	0.39	—	0.39	0.39	—	0.39	—	5,599	5,599	0.50	0.01	—	5,615
Apartments Low Rise	1.43	0.71	12.2	5.19	0.08	0.99	—	0.99	0.99	—	0.99	—	14,042	14,042	1.24	0.03	—	14,081
Mobile Home Park	0.01	< 0.005	0.08	0.03	< 0.005	0.01	—	0.01	0.01	—	0.01	—	90.6	90.6	0.01	< 0.005	—	90.9
Total	6.00	3.00	52.7	31.8	0.33	4.15	—	4.15	4.15	—	4.15	—	59,085	59,085	5.23	0.11	—	59,249

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	2.04	1.02	18.6	15.6	0.11	1.41	—	1.41	1.41	—	1.41	—	22,161	22,161	1.96	0.04	—	22,222
Industrial Park	0.43	0.21	3.90	3.27	0.02	0.30	—	0.30	0.30	—	0.30	—	4,648	4,648	0.41	0.01	—	4,660
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	1.33	0.66	12.1	10.1	0.07	0.92	—	0.92	0.92	—	0.92	—	14,383	14,383	1.27	0.03	—	14,423
Government (Civic Center)	0.45	0.22	4.09	3.43	0.02	0.31	—	0.31	0.31	—	0.31	—	4,879	4,879	0.43	0.01	—	4,893
Research & Development	9.35	4.67	85.0	71.4	0.51	6.46	—	6.46	6.46	—	6.46	—	101,384	101,384	8.97	0.19	—	101,665
Single Family Housing	8.32	4.16	71.1	30.3	0.45	5.75	—	5.75	5.75	—	5.75	—	90,241	90,241	7.99	0.17	—	90,491
Condo/Townhouse	3.12	1.56	26.6	11.3	0.17	2.15	—	2.15	2.15	—	2.15	—	33,819	33,819	2.99	0.06	—	33,913
Apartments Low Rise	7.69	3.84	65.7	28.0	0.42	5.31	—	5.31	5.31	—	5.31	—	83,410	83,410	7.38	0.16	—	83,642
Mobile Home Park	0.05	0.03	0.43	0.18	< 0.005	0.03	—	0.03	0.03	—	0.03	—	548	548	0.05	< 0.005	—	549
Total	32.8	16.4	287	174	1.79	22.6	—	22.6	22.6	—	22.6	—	355,472	355,472	31.5	0.67	—	356,458

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	2.04	1.02	18.6	15.6	0.11	1.41	—	1.41	1.41	—	1.41	—	22,161	22,161	1.96	0.04	—	22,222
Industrial Park	0.43	0.21	3.90	3.27	0.02	0.30	—	0.30	0.30	—	0.30	—	4,648	4,648	0.41	0.01	—	4,660
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	1.33	0.66	12.1	10.1	0.07	0.92	—	0.92	0.92	—	0.92	—	14,383	14,383	1.27	0.03	—	14,423
Government (Civic Center)	0.45	0.22	4.09	3.43	0.02	0.31	—	0.31	0.31	—	0.31	—	4,879	4,879	0.43	0.01	—	4,893
Research & Development	9.35	4.67	85.0	71.4	0.51	6.46	—	6.46	6.46	—	6.46	—	101,384	101,384	8.97	0.19	—	101,665
Single Family Housing	8.32	4.16	71.1	30.3	0.45	5.75	—	5.75	5.75	—	5.75	—	90,241	90,241	7.99	0.17	—	90,491
Condo/Townhouse	3.12	1.56	26.6	11.3	0.17	2.15	—	2.15	2.15	—	2.15	—	33,819	33,819	2.99	0.06	—	33,913
Apartments Low Rise	7.69	3.84	65.7	28.0	0.42	5.31	—	5.31	5.31	—	5.31	—	83,410	83,410	7.38	0.16	—	83,642
Mobile Home Park	0.05	0.03	0.43	0.18	< 0.005	0.03	—	0.03	0.03	—	0.03	—	548	548	0.05	< 0.005	—	549
Total	32.8	16.4	287	174	1.79	22.6	—	22.6	22.6	—	22.6	—	355,472	355,472	31.5	0.67	—	356,458
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	0.37	0.19	3.39	2.85	0.02	0.26	—	0.26	0.26	—	0.26	—	3,669	3,669	0.32	0.01	—	3,679
Industrial Park	0.08	0.04	0.71	0.60	< 0.005	0.05	—	0.05	0.05	—	0.05	—	769	769	0.07	< 0.005	—	772

City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.24	0.12	2.20	1.85	0.01	0.17	—	0.17	0.17	—	0.17	—	2,381	2,381	0.21	< 0.005	—	2,388
Government (Civic Center)	0.08	0.04	0.75	0.63	< 0.005	0.06	—	0.06	0.06	—	0.06	—	808	808	0.07	< 0.005	—	810
Research & Development	1.71	0.85	15.5	13.0	0.09	1.18	—	1.18	1.18	—	1.18	—	16,785	16,785	1.49	0.03	—	16,832
Single Family Housing	1.52	0.76	13.0	5.52	0.08	1.05	—	1.05	1.05	—	1.05	—	14,940	14,940	1.32	0.03	—	14,982
Condo/Townhouse	0.57	0.28	4.86	2.07	0.03	0.39	—	0.39	0.39	—	0.39	—	5,599	5,599	0.50	0.01	—	5,615
Apartments Low Rise	1.40	0.70	12.0	5.10	0.08	0.97	—	0.97	0.97	—	0.97	—	13,810	13,810	1.22	0.03	—	13,848
Mobile Home Park	0.01	< 0.005	0.08	0.03	< 0.005	0.01	—	0.01	0.01	—	0.01	—	90.6	90.6	0.01	< 0.005	—	90.9
<b>Total</b>	<b>5.98</b>	<b>2.99</b>	<b>52.5</b>	<b>31.7</b>	<b>0.33</b>	<b>4.13</b>	<b>—</b>	<b>4.13</b>	<b>4.13</b>	<b>—</b>	<b>4.13</b>	<b>—</b>	<b>58,852</b>	<b>58,852</b>	<b>5.21</b>	<b>0.11</b>	<b>—</b>	<b>59,016</b>

### 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	215	209	120	275	1.03	39.7	—	39.7	39.7	—	39.7	2,999	145,780	148,780	3.11	0.63	—	149,046

Consum Products	—	1,104	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	97.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipme nt	291	271	19.3	2,183	0.11	2.40	—	2.40	1.81	—	1.81	—	7,359	7,359	0.31	0.06	—	7,385
Total	507	1,682	140	2,458	1.14	42.1	—	42.1	41.5	—	41.5	2,999	153,139	156,139	3.41	0.70	—	156,432
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	215	209	120	275	1.03	39.7	—	39.7	39.7	—	39.7	2,999	145,780	148,780	3.11	0.63	—	149,046
Consum er Products	—	1,104	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	97.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	215	1,410	120	275	1.03	39.7	—	39.7	39.7	—	39.7	2,999	145,780	148,780	3.11	0.63	—	149,046
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	28.0	20.0	9.78	90.1	0.40	13.2	—	13.2	12.8	—	12.8	2,669	7,935	10,604	12.7	0.03	—	10,931
Consum er Products	—	201	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	17.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipme nt	36.4	33.9	2.41	273	0.01	0.30	—	0.30	0.23	—	0.23	—	835	835	0.03	0.01	—	837
Total	64.4	273	12.2	363	0.42	13.5	—	13.5	13.0	—	13.0	2,669	8,770	11,439	12.7	0.04	—	11,768

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	215	209	120	275	1.03	39.7	—	39.7	39.7	—	39.7	2,999	145,780	148,780	3.11	0.63	—	149,046
Consumer Products	—	1,104	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	97.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	291	271	19.3	2,183	0.11	2.40	—	2.40	1.81	—	1.81	—	7,359	7,359	0.31	0.06	—	7,385
Total	507	1,682	140	2,458	1.14	42.1	—	42.1	41.5	—	41.5	2,999	153,139	156,139	3.41	0.70	—	156,432
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	215	209	120	275	1.03	39.7	—	39.7	39.7	—	39.7	2,999	145,780	148,780	3.11	0.63	—	149,046
Consumer Products	—	1,104	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	97.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	215	1,410	120	275	1.03	39.7	—	39.7	39.7	—	39.7	2,999	145,780	148,780	3.11	0.63	—	149,046
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	28.0	20.0	9.78	90.1	0.40	13.2	—	13.2	12.8	—	12.8	2,669	7,935	10,604	12.7	0.03	—	10,931

Consumer Products	—	201	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	17.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	36.4	33.9	2.41	273	0.01	0.30	—	0.30	0.23	—	0.23	—	835	835	0.03	0.01	—	837
Total	64.4	273	12.2	363	0.42	13.5	—	13.5	13.0	—	13.0	2,669	8,770	11,439	12.7	0.04	—	11,768

#### 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	107	169	277	11.0	0.26	—	631
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	284	449	733	29.2	0.70	—	1,674
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1,067	1,683	2,749	110	2.63	—	6,274
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	257	405	661	26.4	0.63	—	1,509



Research & Development	—	—	—	—	—	—	—	—	—	—	—	13,196	20,822	34,017	1,356	32.6	—	77,630
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	565	3,448	4,014	58.5	1.44	—	5,907
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	210	332	542	21.6	0.52	—	1,236
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	791	1,249	2,040	81.3	1.95	—	4,655
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	3.77	5.94	9.71	0.39	0.01	—	22.2
Total	—	—	—	—	—	—	—	—	—	—	—	16,481	28,562	45,043	1,695	40.7	—	99,539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	107	169	277	11.0	0.26	—	631
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	284	449	733	29.2	0.70	—	1,674
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1,067	1,683	2,749	110	2.63	—	6,274
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	257	405	661	26.4	0.63	—	1,509
Research & Development	—	—	—	—	—	—	—	—	—	—	—	13,196	20,822	34,017	1,356	32.6	—	77,630

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	565	3,448	4,014	58.5	1.44	—	5,907
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	210	332	542	21.6	0.52	—	1,236
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	791	1,249	2,040	81.3	1.95	—	4,655
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	3.77	5.94	9.71	0.39	0.01	—	22.2
Total	—	—	—	—	—	—	—	—	—	—	—	16,481	28,562	45,043	1,695	40.7	—	99,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	17.8	28.0	45.8	1.83	0.04	—	104
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	47.1	74.3	121	4.84	0.12	—	277
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	177	279	455	18.2	0.44	—	1,039
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	42.5	67.0	110	4.37	0.10	—	250
Research & Development	—	—	—	—	—	—	—	—	—	—	—	2,185	3,447	5,632	225	5.39	—	12,852
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	93.6	571	664	9.69	0.24	—	978
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	34.8	54.9	89.7	3.58	0.09	—	205

Apartments	—	—	—	—	—	—	—	—	—	—	—	131	207	338	13.5	0.32	—	771
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	0.62	0.98	1.61	0.06	< 0.005	—	3.67
Total	—	—	—	—	—	—	—	—	—	—	—	2,729	4,729	7,457	281	6.74	—	16,480

#### 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	107	169	277	11.0	0.26	—	631
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	284	449	733	29.2	0.70	—	1,674
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1,067	1,683	2,749	110	2.63	—	6,274
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	257	405	661	26.4	0.63	—	1,509
Research & Development	—	—	—	—	—	—	—	—	—	—	—	13,196	20,822	34,017	1,356	32.6	—	77,630
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	565	3,448	4,014	58.5	1.44	—	5,907
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	210	332	542	21.6	0.52	—	1,236

Apartme Low Rise	—	—	—	—	—	—	—	—	—	—	—	791	1,249	2,040	81.3	1.95	—	4,655
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	3.77	5.94	9.71	0.39	0.01	—	22.2
Total	—	—	—	—	—	—	—	—	—	—	—	16,481	28,562	45,043	1,695	40.7	—	99,539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	107	169	277	11.0	0.26	—	631
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	284	449	733	29.2	0.70	—	1,674
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1,067	1,683	2,749	110	2.63	—	6,274
Governm ent (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	257	405	661	26.4	0.63	—	1,509
Researc h & Development	—	—	—	—	—	—	—	—	—	—	—	13,196	20,822	34,017	1,356	32.6	—	77,630
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	565	3,448	4,014	58.5	1.44	—	5,907
Condo/T ownhous e	—	—	—	—	—	—	—	—	—	—	—	210	332	542	21.6	0.52	—	1,236
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	791	1,249	2,040	81.3	1.95	—	4,655
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	3.77	5.94	9.71	0.39	0.01	—	22.2

Total	—	—	—	—	—	—	—	—	—	—	—	16,481	28,562	45,043	1,695	40.7	—	99,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	17.8	28.0	45.8	1.83	0.04	—	104
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	47.1	74.3	121	4.84	0.12	—	277
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	177	279	455	18.2	0.44	—	1,039
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	42.5	67.0	110	4.37	0.10	—	250
Research & Development	—	—	—	—	—	—	—	—	—	—	—	2,185	3,447	5,632	225	5.39	—	12,852
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	93.6	571	664	9.69	0.24	—	978
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	34.8	54.9	89.7	3.58	0.09	—	205
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	131	207	338	13.5	0.32	—	771
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	0.62	0.98	1.61	0.06	< 0.005	—	3.67
Total	—	—	—	—	—	—	—	—	—	—	—	2,729	4,729	7,457	281	6.74	—	16,480

## 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	1,181	0.00	1,181	118	0.00	—	4,133
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	429	0.00	429	42.9	0.00	—	1,501
City Park	—	—	—	—	—	—	—	—	—	—	—	28.6	0.00	28.6	2.86	0.00	—	100
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4,252	0.00	4,252	425	0.00	—	14,877
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	2,070	0.00	2,070	207	0.00	—	7,244
Research & Development	—	—	—	—	—	—	—	—	—	—	—	574	0.00	574	57.3	0.00	—	2,007
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3,664	0.00	3,664	366	0.00	—	12,819
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1,045	0.00	1,045	104	0.00	—	3,657
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	3,936	0.00	3,936	393	0.00	—	13,772
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	18.7	0.00	18.7	1.87	0.00	—	65.5
Total	—	—	—	—	—	—	—	—	—	—	—	17,199	0.00	17,199	1,719	0.00	—	60,174

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	1,181	0.00	1,181	118	0.00	—	4,133
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	429	0.00	429	42.9	0.00	—	1,501
City Park	—	—	—	—	—	—	—	—	—	—	—	28.6	0.00	28.6	2.86	0.00	—	100
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4,252	0.00	4,252	425	0.00	—	14,877
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	2,070	0.00	2,070	207	0.00	—	7,244
Research & Development	—	—	—	—	—	—	—	—	—	—	—	574	0.00	574	57.3	0.00	—	2,007
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3,664	0.00	3,664	366	0.00	—	12,819
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1,045	0.00	1,045	104	0.00	—	3,657
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	3,936	0.00	3,936	393	0.00	—	13,772
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	18.7	0.00	18.7	1.87	0.00	—	65.5
Total	—	—	—	—	—	—	—	—	—	—	—	17,199	0.00	17,199	1,719	0.00	—	60,174
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	196	0.00	196	19.5	0.00	—	684
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	71.0	0.00	71.0	7.10	0.00	—	249

City Park	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	704	0.00	704	70.4	0.00	—	2,463
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	343	0.00	343	34.3	0.00	—	1,199
Research & Development	—	—	—	—	—	—	—	—	—	—	—	95.0	0.00	95.0	9.49	0.00	—	332
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	607	0.00	607	60.6	0.00	—	2,122
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	173	0.00	173	17.3	0.00	—	605
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	652	0.00	652	65.1	0.00	—	2,280
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	3.10	0.00	3.10	0.31	0.00	—	10.8
Total	—	—	—	—	—	—	—	—	—	—	—	2,848	0.00	2,848	285	0.00	—	9,963

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	1,181	0.00	1,181	118	0.00	—	4,133



Industrial Park	—	—	—	—	—	—	—	—	—	—	—	429	0.00	429	42.9	0.00	—	1,501
City Park	—	—	—	—	—	—	—	—	—	—	—	28.6	0.00	28.6	2.86	0.00	—	100
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4,252	0.00	4,252	425	0.00	—	14,877
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	2,070	0.00	2,070	207	0.00	—	7,244
Research & Development	—	—	—	—	—	—	—	—	—	—	—	574	0.00	574	57.3	0.00	—	2,007
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3,664	0.00	3,664	366	0.00	—	12,819
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1,045	0.00	1,045	104	0.00	—	3,657
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	3,936	0.00	3,936	393	0.00	—	13,772
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	18.7	0.00	18.7	1.87	0.00	—	65.5
Total	—	—	—	—	—	—	—	—	—	—	—	17,199	0.00	17,199	1,719	0.00	—	60,174
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	1,181	0.00	1,181	118	0.00	—	4,133
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	429	0.00	429	42.9	0.00	—	1,501
City Park	—	—	—	—	—	—	—	—	—	—	—	28.6	0.00	28.6	2.86	0.00	—	100
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4,252	0.00	4,252	425	0.00	—	14,877

Government	—	—	—	—	—	—	—	—	—	—	—	2,070	0.00	2,070	207	0.00	—	7,244
Research & Development	—	—	—	—	—	—	—	—	—	—	—	574	0.00	574	57.3	0.00	—	2,007
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3,664	0.00	3,664	366	0.00	—	12,819
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1,045	0.00	1,045	104	0.00	—	3,657
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	3,936	0.00	3,936	393	0.00	—	13,772
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	18.7	0.00	18.7	1.87	0.00	—	65.5
Total	—	—	—	—	—	—	—	—	—	—	—	17,199	0.00	17,199	1,719	0.00	—	60,174
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	196	0.00	196	19.5	0.00	—	684
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	71.0	0.00	71.0	7.10	0.00	—	249
City Park	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	704	0.00	704	70.4	0.00	—	2,463
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	343	0.00	343	34.3	0.00	—	1,199
Research & Development	—	—	—	—	—	—	—	—	—	—	—	95.0	0.00	95.0	9.49	0.00	—	332

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	607	0.00	607	60.6	0.00	—	2,122
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	173	0.00	173	17.3	0.00	—	605
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	652	0.00	652	65.1	0.00	—	2,280
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	3.10	0.00	3.10	0.31	0.00	—	10.8
Total	—	—	—	—	—	—	—	—	—	—	—	2,848	0.00	2,848	285	0.00	—	9,963

## 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.51	6.51
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	167	167
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46.8	46.8
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.64	1.64

Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	358	358
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	98.6	98.6
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75.0	75.0
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.44	0.44
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	774	774
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.51	6.51
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	167	167
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46.8	46.8
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.64	1.64
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	358	358
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	98.6	98.6

Condo/T	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75.0	75.0
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.44	0.44
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	774	774
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.08	1.08
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27.7	27.7
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.75	7.75
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	59.2	59.2
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.3	16.3
Condo/T ownhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.30	3.30
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.4	12.4
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.07	0.07

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	128	128
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----	-----

#### 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.51	6.51
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	167	167
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46.8	46.8
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.64	1.64
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	358	358
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	98.6	98.6
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75.0	75.0

Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.44	0.44
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	774	774
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.51	6.51
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	167	167
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46.8	46.8
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.64	1.64
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	358	358
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	98.6	98.6
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75.0	75.0
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.44	0.44
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	774	774
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.08	1.08
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27.7	27.7
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.75	7.75
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
Research & Development	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	59.2	59.2
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.3	16.3
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.30	3.30
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.4	12.4
Mobile Home Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.07	0.07
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	128	128

## 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 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. 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

### 5.9. 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
High School	1,619	455	202	456,268	8,417	2,367	1,052	2,372,592
Industrial Park	148	109	51.4	46,866	768	568	267	243,703
City Park	30.9	80.3	92.7	17,079	161	418	482	88,810



Strip Mall	22,692	21,565	10,444	7,585,276	118,000	112,139	54,311	39,443,433
Government (Civic Center)	1,564	0.00	0.00	407,674	8,131	0.00	0.00	2,119,903
Research & Development	10,784	1,821	1,120	2,964,859	56,076	9,467	5,826	15,417,264
Single Family Housing	4,516	4,587	4,093	1,630,117	23,486	23,853	21,284	8,476,606
Condo/Townhouse	1,312	1,469	1,128	477,330	6,820	7,638	5,865	2,482,115
Apartments Low Rise	4,939	5,531	4,247	1,797,402	25,680	28,762	22,085	9,346,492
Mobile Home Park	16.0	14.6	13.6	5,637	83.1	75.8	70.9	29,311

### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
High School	1,615	454	202	455,315	8,399	2,362	1,050	2,367,638
Industrial Park	147	109	51.3	46,768	766	566	267	243,194
City Park	30.8	80.2	92.5	17,043	160	417	481	88,625
Strip Mall	22,645	21,520	10,423	7,569,436	117,753	111,905	54,198	39,361,067
Government (Civic Center)	1,560	0.00	0.00	406,822	8,114	0.00	0.00	2,115,476
Research & Development	10,761	1,817	1,118	2,958,667	55,959	9,448	5,814	15,385,070
Single Family Housing	4,507	4,577	4,085	1,626,713	23,437	23,803	21,239	8,458,905
Condo/Townhouse	1,309	1,466	1,126	476,333	6,806	7,622	5,853	2,476,932
Apartments Low Rise	4,928	5,520	4,238	1,793,649	25,627	28,702	22,039	9,326,975
Mobile Home Park	15.9	14.5	13.6	5,625	82.9	75.6	70.7	29,249

### 5.10. Operational Area Sources

## 5.10.1. Hearths

## 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	212
Gas Fireplaces	6351
Propane Fireplaces	494
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	353
Non-Catalytic Wood Stoves	353
Pellet Wood Stoves	494
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	2623
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	9877

Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Mobile Home Park	—
Wood Fireplaces	0
Gas Fireplaces	47
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
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	212
Gas Fireplaces	6351
Propane Fireplaces	494
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0

Catalytic Wood Stoves	353
Non-Catalytic Wood Stoves	353
Pellet Wood Stoves	494
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	2623
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	9877
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Mobile Home Park	—
Wood Fireplaces	0
Gas Fireplaces	47
Propane Fireplaces	0

Electric Fireplaces	0
No Fireplaces	0
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)
54821306.25	18,273,769	36,781,500	12,260,500	—

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 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)
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High School	7,553,065	204	0.0330	0.0040	69,147,053
Industrial Park	13,399,422	204	0.0330	0.0040	14,501,466
City Park	0.00	204	0.0330	0.0040	0.00
Strip Mall	62,194,824	204	0.0330	0.0040	44,880,196
Government (Civic Center)	14,067,306	204	0.0330	0.0040	15,224,281
Research & Development	292,303,595	204	0.0330	0.0040	316,344,290
Single Family Housing	42,789,082	204	0.0330	0.0040	281,575,135
Condo/Townhouse	9,289,753	204	0.0330	0.0040	105,524,601
Apartments Low Rise	31,157,954	204	0.0330	0.0040	264,638,853
Mobile Home Park	217,555	204	0.0330	0.0040	1,708,380

### 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)
High School	7,553,065	204	0.0330	0.0040	69,147,053
Industrial Park	13,399,422	204	0.0330	0.0040	14,501,466
City Park	0.00	204	0.0330	0.0040	0.00
Strip Mall	62,194,824	204	0.0330	0.0040	44,880,196
Government (Civic Center)	14,067,306	204	0.0330	0.0040	15,224,281
Research & Development	292,303,595	204	0.0330	0.0040	316,344,290
Single Family Housing	42,789,082	204	0.0330	0.0040	281,575,135
Condo/Townhouse	9,289,753	204	0.0330	0.0040	105,524,601
Apartments Low Rise	31,114,617	204	0.0330	0.0040	260,262,924
Mobile Home Park	217,555	204	0.0330	0.0040	1,708,380

### 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
High School	55,983,023	0.00
Industrial Park	148,462,500	0.00
City Park	0.00	0.00
Strip Mall	556,580,926	0.00
Government (Civic Center)	133,896,628	0.00
Research & Development	6,886,173,731	0.00
Single Family Housing	295,032,705	1,182,254,276
Condo/Townhouse	109,660,023	0.00
Apartments Low Rise	412,928,727	0.00
Mobile Home Park	1,964,934	0.00

## 5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
High School	55,983,023	0.00
Industrial Park	148,462,500	0.00
City Park	0.00	0.00
Strip Mall	556,580,926	0.00
Government (Civic Center)	133,896,628	0.00
Research & Development	6,886,173,731	0.00
Single Family Housing	295,032,705	1,182,254,276
Condo/Townhouse	109,660,023	0.00
Apartments Low Rise	412,928,727	0.00
Mobile Home Park	1,964,934	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
High School	2,192	—
Industrial Park	796	—
City Park	53.1	—
Strip Mall	7,890	—
Government (Civic Center)	3,842	—
Research & Development	1,064	—
Single Family Housing	6,798	—
Condo/Townhouse	1,940	—
Apartments Low Rise	7,304	—
Mobile Home Park	34.7	—

### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
High School	2,192	—
Industrial Park	796	—
City Park	53.1	—
Strip Mall	7,890	—
Government (Civic Center)	3,842	—
Research & Development	1,064	—
Single Family Housing	6,798	—
Condo/Townhouse	1,940	—
Apartments Low Rise	7,304	—
Mobile Home Park	34.7	—



## 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
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government (Civic Center)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Research & Development	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00

Research & Development	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Mobile Home Park	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Mobile Home Park	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
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government (Civic Center)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Research & Development	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Research & Development	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Mobile Home Park	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Mobile Home Park	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
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#### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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### 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
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#### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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### 5.17. User Defined

Equipment Type	Fuel Type
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## 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
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#### 5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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#### 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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#### 5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	31.3	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
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The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—

AQ-Ozone	13.6
AQ-PM	2.92
AQ-DPM	26.4
Drinking Water	38.7
Lead Risk Housing	56.7
Pesticides	0.00
Toxic Releases	0.54
Traffic	27.1
Effect Indicators	—
CleanUp Sites	83.0
Groundwater	87.5
Haz Waste Facilities/Generators	30.6
Impaired Water Bodies	77.3
Solid Waste	59.2
Sensitive Population	—
Asthma	35.9
Cardio-vascular	13.1
Low Birth Weights	19.9
Socioeconomic Factor Indicators	—
Education	24.1
Housing	64.0
Linguistic	24.8
Poverty	26.7
Unemployment	37.7

## 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	64.9557295
Employed	60.78532016
Median HI	46.47760811
Education	—
Bachelor's or higher	81.58603875
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	57.21801617
Active commuting	87.89939689
Social	—
2-parent households	65.78981137
Voting	70.98678301
Neighborhood	—
Alcohol availability	40.65186706
Park access	81.35506224
Retail density	93.41716925
Supermarket access	64.09598358
Tree canopy	81.52187861
Housing	—
Homeownership	12.72937251
Housing habitability	27.37071731
Low-inc homeowner severe housing cost burden	19.88964455
Low-inc renter severe housing cost burden	39.67663288
Uncrowded housing	84.29359682

Health Outcomes	—
Insured adults	64.90440139
Arthritis	0.0
Asthma ER Admissions	75.6
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	79.6
Cognitively Disabled	32.0
Physically Disabled	36.0
Heart Attack ER Admissions	94.8
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	84.3
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	4.5
SLR Inundation Area	47.2

Children	88.7
Elderly	20.2
English Speaking	64.4
Foreign-born	44.0
Outdoor Workers	70.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	31.0
Traffic Density	1.4
Traffic Access	0.0
Other Indices	—
Hardship	20.0
Other Decision Support	—
2016 Voting	74.8

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	22.0
Healthy Places Index Score for Project Location (b)	67.0
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	Size represents the total land/dwelling units. Existing land use acreage based on GIS land inventory within the City, consistent with Table 2-1 of the Project Description of the EIR. Residential acreage distributed based on proportion of units from Department of Finance data. Building area calculated from SCAG employment density factors (sq ft per job) and US Census (OnTheMap) employment data. Categorization by land use category as detailed in Description column.
Operations: Vehicle Data	Traffic data scaled by land use, provided by Project transportation engineers (Kimley Horn) on 12/4/2023. Data analysis was conducted for only home-based VMT.
Operations: Road Dust	Assumed that at least 90% of roads in the Planning Area are paved; this is a conservative estimate.
Operations: Hearths	No wood stoves.
Characteristics: Utility Information	3CE currently has a 94% share of the market (for the 3CE service area), and 96% of Monterey customers use 3CE. It is assumed this would continue/expand, as supported by Housing Element Program 5-A and other City-led initiatives (as outlined in the CAP).

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

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Operations: Vehicle Data	Traffic data scaled by land use, provided by Project transportation engineers (Kimley Horn) on 12/4/2023. Data analysis was conducted for only home-based VMT.
Operations: Road Dust	Assumed that at least 90% of roads in the Planning Area are paved; this is a conservative estimate.
Operations: Hearths	No wood stoves.



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**APPENDIX**

**NOISE DATA**

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## MEMORANDUM

**DATE:** 3 November 2023

**NAME:**  
Andrew Hill

**COMPANY:**  
Dyett & Bhatia

**EMAIL:**  
andrew@dyettandbhatia.com

**FROM:** Jeremy Decker, PE

**SUBJECT:** City of Monterey – General Plan Update  
Noise Measurement Results

**PROJECT:** 23-0195

As part of the study of existing conditions in the City of Monterey study area, we performed long-term noise measurements at the locations depicted in the image below from 19 through 24 May 2023. The measured noise levels are listed in Table 1 below. The distances listed are from the roadway centerline. The monitors were located approximately 12' above grade.





Table 1: Noise Measurement Survey Results

#	Roadway	Measurement Distance from Roadway Centerline	Measured DNL <sup>1</sup>
L1	Lighthouse Ave	30 feet	75 dB
L2	Del Monte Ave	55 feet	76 dB
L3	Munras Ave	40 feet	70 dB
L4	N Fremont St	50 feet	72 dB
L5	Ragsdale Dr	30 feet	69 dB
L6	Highway 68	35 feet	75 dB

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<sup>1</sup> DNL (Day-Night Average Sound Level) – A descriptor for a 24-hour A-weighted average noise level. DNL accounts for the increased acoustical sensitivity of people to noise during the nighttime hours. DNL penalizes sound levels by 10 dB during the hours from 10 PM to 7 AM. For practical purposes, the DNL and CNEL are usually interchangeable. DNL is sometimes written as  $L_{dn}$ .

**City of Monterey General Plan Noise Element Update**  
**Traffic Noise Estimates based on Traffic Data to Study Expected Increases**  
**23-0195**

ID	Type	Roadway Segment	50		Projected Increase (dB)	70		85		60	
			Calculated Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Future: Distance from Centerline to DNL 70 dB	Future: Distance from Centerline to DNL 65 dB	Future: Distance from Centerline to DNL 60 dB			
5150	Minor Arterial	DAVID AVE	67	68	0.3	<50	80	160			
5151	Principal Arterial	LIGHTHOUSE AVE	66	67	0.5	<50	70	140			
5155	Local	LINE ST	2	2	0.0	<50	<50	<50			
5180	Minor Arterial	DAVID AVE	63	63	0.5	<50	<50	80			
5181	Local	LAIN ST	2	2	0.0	<50	<50	<50			
5186	Local	LINE ST	2	2	0.0	<50	<50	<50			
5205	Local	IRVING AVE	53	54	0.8	<50	<50	<50			
5206	Principal Arterial	LIGHTHOUSE AVE	70	71	0.6	60	120	260			
5212	Minor Arterial	DAVID AVE	63	63	0.5	<50	<50	80			
5213	Local	BELDEN ST	2	2	0.0	<50	<50	<50			
5227	Local	LINE ST	2	2	0.0	<50	<50	<50			
5230	Local	PRESCOTT AVE	50	51	1.0	<50	<50	<50			
5231	Local	WAVE ST	44	45	0.8	<50	<50	<50			
5249	Local	IRVING AVE	42	43	0.2	<50	<50	<50			
5250	Minor Arterial	HAWTHORNE ST	54	55	1.1	<50	<50	<50			
5251	Minor Arterial	DAVID AVE	63	64	0.9	<50	<50	100			
5252	Local	SPENCER ST	55	56	1.3	<50	<50	<50			
5259	Local	LINE ST	2	2	0.0	<50	<50	<50			
5264	Local	PRESCOTT AVE	50	51	1.0	<50	<50	<50			
5265	Minor Arterial	FOAM ST	2	2	0.0	<50	<50	<50			
5287	Local	IRVING AVE	2	2	0.0	<50	<50	<50			
5288	Local	LAIN ST	2	2	0.0	<50	<50	<50			
5292	Minor Arterial	DAVID AVE	61	61	0.5	<50	<50	60			
5293	Local	ARCHER ST	2	2	0.0	<50	<50	<50			
5305	Local	LINE ST	2	2	0.0	<50	<50	<50			
5311	Local	CANNERY ROW	2	2	0.0	<50	<50	<50			
5321	Major Collector	PRESCOTT AVE	50	51	1.0	<50	<50	<50			
5322	Principal Arterial	LIGHTHOUSE AVE	70	71	0.6	60	120	270			
5338	Minor Arterial	DAVID AVE	61	61	0.5	<50	<50	60			
5339	Major Collector	PINE ST	54	55	1.6	<50	<50	<50			
5340	Local	IRVING AVE	2	2	0.0	<50	<50	<50			
5341	Local	BELDEN ST	56	58	2.1	<50	<50	<50			
5344	Local	LINE ST	2	2	0.0	<50	<50	<50			
5349	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50			
5350	Local	WAVE ST	2	2	0.0	<50	<50	<50			
5361	Major Collector	PRESCOTT AVE	52	53	1.5	<50	<50	<50			
5362	Minor Arterial	HAWTHORNE ST	2	47	44.9	<50	<50	<50			
5363	Minor Arterial	DAVID AVE	65	65	-0.2	<50	50	110			
5364	Local	OAK ST	2	2	0.0	<50	<50	<50			
5368	Local	IRVING AVE	2	2	0.0	<50	<50	<50			
5369	Local	SPENCER ST	44	45	0.1	<50	<50	<50			
5377	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50			
5378	Minor Arterial	FOAM ST	2	2	0.0	<50	<50	<50			
5384	Minor Arterial	DAVID AVE	65	65	-0.2	<50	50	110			
5387	Local	LINE ST	2	2	0.0	<50	<50	<50			
5389	Major Collector	PRESCOTT AVE	50	51	1.0	<50	<50	<50			
5390	Local	LAIN ST	2	2	0.0	<50	<50	<50			
5394	Local	IRVING AVE	2	2	0.0	<50	<50	<50			
5395	Local	ARCHER ST	2	2	0.0	<50	<50	<50			
5401	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50			
5402	Principal Arterial	LIGHTHOUSE AVE	70	71	0.6	60	120	270			
5403	Minor Arterial	DAVID AVE	65	65	-0.2	<50	50	110			
5404	Local	LILY ST	58	56	-1.2	<50	<50	<50			
5408	Major Collector	PRESCOTT AVE	52	53	1.5	<50	<50	<50			
5409	Local	BELDEN ST	56	58	2.1	<50	<50	<50			
5411	Local	WAVE ST	2	2	0.0	<50	<50	<50			
5417	Local	IRVING AVE	2	2	0.0	<50	<50	<50			
5418	Major Collector	PINE ST	58	59	0.1	<50	<50	<50			
5419	Local	LILY ST	44	44	0.2	<50	<50	<50			
5424	Minor Arterial	DAVID AVE	65	63	-1.3	<50	<50	80			
5435	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50			
5436	Minor Arterial	HAWTHORNE ST	2	47	44.9	<50	<50	<50			
5448	Major Collector	PRESCOTT AVE	52	53	1.4	<50	<50	<50			
5449	Local	SPENCER ST	42	42	0.1	<50	<50	<50			

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future:	Future:	Future:
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Distance from Centerline to DNL 70 dB	Distance from Centerline to DNL 65 dB	Distance from Centerline to DNL 60 dB
5454	Local	MCCLELLAN AVE	44	44	0.8	<50	<50	<50
5455	Minor Arterial	FOAM ST	2	2	0.0	<50	<50	<50
5460	Minor Arterial	DAVID AVE	65	63	-1.3	<50	<50	80
5461	Local	FILMORE ST	60	60	0.6	<50	<50	50
5462	Local	WITHERS AVE	2	2	0.0	<50	<50	<50
5463	Local	CYPRESS ST	2	2	0.0	<50	<50	<50
5466	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5467	Local	OAK ST	2	2	0.0	<50	<50	<50
5480	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50
5481	Local	LAINÉ ST	2	2	0.0	<50	<50	<50
5489	Minor Arterial	DAVID AVE	63	60	-2.8	<50	<50	50
5491	Major Collector	PRESCOTT AVE	52	53	1.4	<50	<50	<50
5492	Local	ARCHER ST	2	2	0.0	<50	<50	<50
5493	Local	WITHERS AVE	2	2	0.0	<50	<50	<50
5494	Local	FILMORE ST	2	2	0.0	<50	<50	<50
5497	Local	MCCLELLAN AVE	49	53	3.0	<50	<50	<50
5498	Principal Arterial	LIGHTHOUSE AVE	71	72	0.6	60	140	290
5499	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5500	Local	NEWTON ST	2	2	0.0	<50	<50	<50
5511	Local	MONTEREY BAY COASTAL TRL	45	46	1.1	<50	<50	<50
5512	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50
5513	Local	BELDEN ST	51	53	2.0	<50	<50	<50
5514	Minor Arterial	DAVID AVE	63	60	-2.8	<50	<50	50
5515	Local	TERRY ST	59	51	-8.2	<50	<50	<50
5516	Local	WITHERS AVE	2	2	0.0	<50	<50	<50
5517	Local	GRACE ST	2	2	0.0	<50	<50	<50
5521	Major Collector	PRESCOTT AVE	52	53	1.3	<50	<50	<50
5522	Major Collector	PINE ST	58	59	0.1	<50	<50	<50
5523	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5524	Local	IRVING AVE	45	45	0.2	<50	<50	<50
5525	Local	MCCLELLAN AVE	42	42	0.2	<50	<50	<50
5526	Minor Arterial	HAWTHORNE ST	2	43	41.0	<50	<50	<50
5537	Minor Arterial	DAVID AVE	60	60	0.4	<50	<50	50
5540	Local	DRAKE AVE	59	58	-0.4	<50	<50	<50
5541	Minor Arterial	FOAM ST	2	2	0.0	<50	<50	<50
5544	Local	WITHERS AVE	2	2	0.0	<50	<50	<50
5545	Local	TERRY ST	2	2	0.0	<50	<50	<50
5546	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50
5547	Local	SPENCER ST	45	45	0.1	<50	<50	<50
5548	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5549	Local	CYPRESS ST	2	2	0.0	<50	<50	<50
5550	Major Collector	PRESCOTT AVE	52	53	1.4	<50	<50	<50
5551	Local	OAK ST	2	2	0.0	<50	<50	<50
5555	Local	MCCLELLAN AVE	41	41	0.1	<50	<50	<50
5556	Local	LAINÉ ST	2	2	0.0	<50	<50	<50
5558	Minor Arterial	DAVID AVE	60	60	0.4	<50	<50	50
5567	Local	DRAKE AVE	62	62	0.0	<50	<50	70
5568	Principal Arterial	LIGHTHOUSE AVE	71	71	0.6	60	140	290
5570	Local	WITHERS AVE	2	2	0.0	<50	<50	<50
5571	Local	PARCEL ST	2	2	0.0	<50	<50	<50
5572	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50
5573	Local	ARCHER ST	50	50	0.0	<50	<50	<50
5574	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5575	Local	FILMORE ST	2	2	0.0	<50	<50	<50
5576	Major Collector	PRESCOTT AVE	52	53	1.4	<50	<50	<50
5577	Local	NEWTON ST	2	2	0.0	<50	<50	<50
5582	Minor Arterial	DAVID AVE	60	60	0.4	<50	<50	50
5583	Local	MCCLELLAN AVE	42	42	0.2	<50	<50	<50
5584	Local	BELDEN ST	53	54	1.6	<50	<50	<50
5586	Minor Arterial	FOAM ST	57	58	0.9	<50	<50	<50
5588	Local	WITHERS AVE	2	2	0.0	<50	<50	<50
5589	Local	LYNDON ST	2	2	0.0	<50	<50	<50
5592	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5593	Local	GRACE ST	2	2	0.0	<50	<50	<50
5600	Major Collector	PRESCOTT AVE	56	56	0.8	<50	<50	<50
5601	Local	LILY ST	45	45	0.1	<50	<50	<50
5602	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50
5603	Major Collector	PINE ST	58	59	0.1	<50	<50	<50
5604	Local	DRAKE AVE	50	50	0.0	<50	<50	<50

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future:	Future:	Future:
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Distance from Centerline to DNL 70 dB	Distance from Centerline to DNL 65 dB	Distance from Centerline to DNL 60 dB
5605	Minor Arterial	HAWTHORNE ST	2	47	44.9	<50	<50	<50
5608	Minor Arterial	DAVID AVE	60	60	0.3	<50	<50	50
5611	Local	MCCELLELLAN AVE	42	42	0.2	<50	<50	<50
5612	Local	SPENCER ST	42	42	0.1	<50	<50	<50
5613	Local	WITHERS AVE	2	2	0.0	<50	<50	<50
5614	Local	ALICE ST	43	43	0.4	<50	<50	<50
5616	Local	DICKMAN AVE	2	2	0.0	<50	<50	<50
5617	Principal Arterial	LIGHTHOUSE AVE	72	72	0.4	70	140	310
5618	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5619	Local	TERRY ST	2	2	0.0	<50	<50	<50
5623	Major Collector	PRESCOTT AVE	52	53	1.3	<50	<50	<50
5624	Local	CYPRESS ST	2	2	0.0	<50	<50	<50
5625	Local	HOFFMAN AVE	53	54	0.4	<50	<50	<50
5626	Local	OAK ST	2	2	0.0	<50	<50	<50
5627	Minor Arterial	DAVID AVE	61	64	2.6	<50	<50	90
5630	Local	DRAKE AVE	48	49	0.3	<50	<50	<50
5631	Local	LAINÉ ST	2	2	0.0	<50	<50	<50
5636	Local	MCCELLELLAN AVE	43	43	0.3	<50	<50	<50
5637	Local	ARCHER ST	51	51	0.0	<50	<50	<50
5647	Local	WITHERS AVE	2	2	0.0	<50	<50	<50
5648	Local	TAYLOR ST	57	57	-0.5	<50	<50	<50
5652	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5653	Local	PARCEL ST	2	2	0.0	<50	<50	<50
5658	Major Collector	PRESCOTT AVE	52	53	1.3	<50	<50	<50
5659	Local	FILMORE ST	2	2	0.0	<50	<50	<50
5660	Minor Arterial	DAVID AVE	61	64	2.6	<50	<50	90
5666	Local	DICKMAN AVE	2	2	0.0	<50	<50	<50
5667	Minor Arterial	HAWTHORNE ST	2	56	54.0	<50	<50	<50
5668	Local	HOFFMAN AVE	53	54	0.4	<50	<50	<50
5669	Local	NEWTON ST	47	48	0.3	<50	<50	<50
5679	Local	DRAKE AVE	50	51	0.5	<50	<50	<50
5680	Local	BELDEN ST	58	59	1.7	<50	<50	50
5688	Local	REESIDE AVE	59	59	0.0	<50	<50	<50
5689	Minor Arterial	FOAM ST	57	58	0.9	<50	<50	<50
5692	Local	MCCELLELLAN AVE	43	43	0.0	<50	<50	<50
5693	Major Collector	PINE ST	59	59	0.1	<50	<50	<50
5696	Local	WITHERS AVE	2	2	0.0	<50	<50	<50
5697	Local	LOTTIE ST	2	2	0.0	<50	<50	<50
5698	Local	LYNDON ST	2	2	0.0	<50	<50	<50
5700	Minor Arterial	DAVID AVE	61	64	2.6	<50	<50	90
5701	Major Collector	PRESCOTT AVE	52	53	1.3	<50	<50	<50
5702	Local	GRACE ST	2	2	0.0	<50	<50	<50
5710	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50
5711	Local	LILY ST	2	2	0.0	<50	<50	<50
5714	Local	DICKMAN AVE	2	2	0.0	<50	<50	<50
5715	Local	LAINÉ ST	2	2	0.0	<50	<50	<50
5716	Local	DRAKE AVE	50	50	0.5	<50	<50	<50
5717	Local	SPENCER ST	2	2	0.0	<50	<50	<50
5719	Local	REESIDE AVE	57	58	0.4	<50	<50	<50
5720	Principal Arterial	LIGHTHOUSE AVE	72	72	0.4	70	150	320
5723	Local	WITHERS AVE	2	2	0.0	<50	<50	<50
5724	Local	LOBOS ST	2	2	0.0	<50	<50	<50
5728	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5729	Local	ALICE ST	43	43	0.4	<50	<50	<50
5731	Local	MCCELLELLAN AVE	2	2	0.0	<50	<50	<50
5732	Local	OAK ST	2	2	0.0	<50	<50	<50
5733	Major Collector	PRESCOTT AVE	52	53	1.3	<50	<50	<50
5734	Local	TERRY ST	2	2	0.0	<50	<50	<50
5735	Minor Arterial	DAVID AVE	57	59	2.2	<50	<50	<50
5737	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50
5738	Local	CYPRESS ST	2	2	0.0	<50	<50	<50
5748	Local	DICKMAN AVE	2	2	0.0	<50	<50	<50
5749	Local	BELDEN ST	58	59	1.7	<50	<50	50
5750	Local	DRAKE AVE	50	50	0.5	<50	<50	<50
5751	Local	ARCHER ST	44	44	0.3	<50	<50	<50
5754	Local	WITHERS AVE	2	2	0.0	<50	<50	<50
5755	Local	JESSIE ST	2	2	0.0	<50	<50	<50
5756	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5757	Local	TAYLOR ST	57	57	-0.5	<50	<50	<50

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future: Distance from Centerline to DNL 70 dB	Future: Distance from Centerline to DNL 65 dB	Future: Distance from Centerline to DNL 60 dB
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)				
5759	Major Collector	PRESCOTT AVE	52	53	1.3	<50	<50	<50
5760	Local	PARCEL ST	2	2	0.0	<50	<50	<50
5761	Local	REESIDE AVE	2	2	0.0	<50	<50	<50
5762	Minor Arterial	HAWTHORNE ST	2	56	54.0	<50	<50	<50
5764	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50
5765	Local	FILMORE ST	2	2	0.0	<50	<50	<50
5766	Minor Arterial	FOAM ST	60	61	0.7	<50	<50	60
5768	Local	LILY ST	2	2	0.0	<50	<50	<50
5769	Local	DICKMAN AVE	44	44	0.0	<50	<50	<50
5770	Local	SPENCER ST	2	2	0.0	<50	<50	<50
5771	Local	DRAKE AVE	50	51	0.8	<50	<50	<50
5772	Major Collector	PINE ST	59	59	0.1	<50	<50	<50
5774	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5775	Local	LOTTIE ST	2	2	0.0	<50	<50	<50
5778	Major Collector	PRESCOTT AVE	50	51	1.0	<50	<50	<50
5779	Local	LYNDON ST	2	2	0.0	<50	<50	<50
5781	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50
5782	Local	GRACE ST	2	2	0.0	<50	<50	<50
5785	Local	REESIDE AVE	45	46	1.0	<50	<50	<50
5786	Local	LAINÉ ST	2	2	0.0	<50	<50	<50
5802	Local	DRAKE AVE	42	44	1.3	<50	<50	<50
5803	Minor Arterial	PVT BOLIO RD	55	55	0.0	<50	<50	<50
5806	Major Collector	PINE ST	59	59	0.1	<50	<50	<50
5807	Minor Arterial	PVT BOLIO RD	65	65	0.0	<50	50	110
5810	Minor Arterial	PVT BOLIO RD	65	65	-0.1	<50	50	100
5815	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5816	Local	LOBOS ST	2	2	0.0	<50	<50	<50
5819	Local	BELDEN ST	53	55	1.4	<50	<50	<50
5820	Minor Arterial	PVT BOLIO RD	65	65	-0.1	<50	50	100
5821	Major Collector	PRESCOTT AVE	52	53	1.3	<50	<50	<50
5822	Local	ALICE ST	41	41	0.2	<50	<50	<50
5824	Minor Arterial	HAWTHORNE ST	2	56	54.0	<50	<50	<50
5826	Principal Arterial	LIGHTHOUSE AVE	72	72	0.3	70	150	320
5827	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50
5828	Local	TERRY ST	2	2	0.0	<50	<50	<50
5832	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5833	Local	JESSIE ST	2	2	0.0	<50	<50	<50
5834	Major Collector	PRESCOTT AVE	51	52	0.7	<50	<50	<50
5835	Local	TAYLOR ST	57	57	-0.5	<50	<50	<50
5837	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50
5838	Local	PARCEL ST	2	2	0.0	<50	<50	<50
5854	Minor Arterial	FOAM ST	60	61	0.8	<50	<50	60
5855	Principal Arterial	LIGHTHOUSE AVE	74	74	0.3	90	200	430
5856	Major Collector	PRESCOTT AVE	59	59	0.5	<50	<50	<50
5857	Local	LOTTIE ST	2	2	0.0	<50	<50	<50
5860	Local	IRVING AVE	2	2	0.0	<50	<50	<50
5861	Local	DEVISADERO ST	2	2	0.0	<50	<50	<50
5862	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50
5864	Local	LYNDON ST	2	2	0.0	<50	<50	<50
5892	Major Collector	PRESCOTT AVE	59	59	0.5	<50	<50	<50
5893	Local	LOBOS ST	2	2	0.0	<50	<50	<50
5900	Local	STILLWELL AVE	52	54	1.9	<50	<50	<50
5914	Local	PRESIDIO OF MONTEREY	2	2	0.0	<50	<50	<50
5915	Major Collector	STILLWELL AVE	52	54	1.9	<50	<50	<50
5922	Local	PLUMMER ST	2	2	0.0	<50	<50	<50
5929	Major Collector	PRESCOTT AVE	59	59	0.5	<50	<50	<50
5930	Local	JESSIE ST	2	2	0.0	<50	<50	<50
5946	Major Collector	PRESCOTT AVE	59	59	0.5	<50	<50	<50
5947	Local	DEVISADERO ST	2	2	0.0	<50	<50	<50
5948	Major Collector	TAYLOR ST	59	60	1.1	<50	<50	50
5950	Local	KIT CARSON RD	2	2	0.0	<50	<50	<50
5963	Local	SGT BEANS RD	2	2	0.0	<50	<50	<50
5964	Local	KIT CARSON RD	2	2	0.0	<50	<50	<50
5966	Local	KIT CARSON RD	2	2	0.0	<50	<50	<50
5996	Principal Arterial	LIGHTHOUSE AVE	74	75	0.3	100	220	470
5999	Local	LEWIS RD	2	2	0.0	<50	<50	<50
6012	Local	SERRA AVE	2	2	0.0	<50	<50	<50
6029	Local	INFANTRY ST	2	2	0.0	<50	<50	<50
6030	Major Collector	STILLWELL AVE	52	54	1.9	<50	<50	<50

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future: Distance from Centerline to DNL 70 dB	Future: Distance from Centerline to DNL 65 dB	Future: Distance from Centerline to DNL 60 dB
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)				
6039	Major Collector	STILLWELL AVE	54	54	0.6	<50	<50	<50
6057	Major Collector	STILLWELL AVE	52	54	1.9	<50	<50	<50
6073	Local	FITCH AVE	2	2	0.0	<50	<50	<50
6083	Local	CORPORAL EVANS RD	2	2	0.0	<50	<50	<50
6132	Major Collector	HIGH ST	52	54	1.9	<50	<50	<50
6158	Major Collector	W FRANKLIN ST	59	60	1.3	<50	<50	50
6167	Local	SCOTT ST	44	2	-41.9	<50	<50	<50
6170	Local	CLAY ST	2	2	0.0	<50	<50	<50
6171	Local	WAINWRIGHT ST	49	52	3.2	<50	<50	<50
6177	Local	ENCINA AVE	2	2	0.0	<50	<50	<50
6182	Major Collector	HIGH ST	50	51	0.5	<50	<50	<50
6183	Local	HELLAM ST	2	2	0.0	<50	<50	<50
6188	Local	MONROE ST	51	56	4.3	<50	<50	<50
6191	Local	SCOTT ST	56	57	0.9	<50	<50	<50
6199	Local	VIRGIN AVE	2	43	40.9	<50	<50	<50
6210	Local	BOWEN ST	2	50	47.5	<50	<50	<50
6226	Local	CLAY ST	2	2	0.0	<50	<50	<50
6227	Local	HELLAM ST	2	2	0.0	<50	<50	<50
6248	Major Collector	HIGH ST	50	51	0.5	<50	<50	<50
6249	Local	GRANT AVE	2	43	40.9	<50	<50	<50
6250	Local	ENGLISH AVE	51	51	0.5	<50	<50	<50
6261	Local	HELLAM ST	2	2	0.0	<50	<50	<50
6264	Minor Arterial	VAN BUREN ST	2	2	0.0	<50	<50	<50
6266	Local	HARRISON ST	2	2	0.0	<50	<50	<50
6269	Local	VIRGIN AVE	2	2	0.0	<50	<50	<50
6286	Local	GRANT AVE	46	48	2.0	<50	<50	<50
6289	Local	CLAY ST	2	2	0.0	<50	<50	<50
6290	Minor Arterial	FRANKLIN ST	57	59	1.7	<50	<50	<50
6303	Major Collector	HIGH ST	50	51	0.5	<50	<50	<50
6304	Minor Arterial	VAN BUREN ST	2	2	0.0	<50	<50	<50
6305	Local	MONTECITO AVE	2	2	0.0	<50	<50	<50
6306	Local	ENGLISH AVE	2	2	0.0	<50	<50	<50
6307	Local	MONROE ST	49	52	3.2	<50	<50	<50
6308	Minor Arterial	FRANKLIN ST	57	59	1.6	<50	<50	<50
6315	Local	EDDIE BURNS LN	2	2	0.0	<50	<50	<50
6316	Minor Arterial	FRANKLIN ST	58	59	1.8	<50	<50	50
6317	Local	GRANT AVE	45	46	1.4	<50	<50	<50
6320	Local	CASA VERDE AVE	56	56	0.6	<50	<50	<50
6321	Local	RAMONA AVE	2	2	0.0	<50	<50	<50
6325	Local	WATSON ST	2	2	0.0	<50	<50	<50
6326	Minor Arterial	FRANKLIN ST	58	60	1.6	<50	<50	50
6329	Local	BRANNER AVE	2	2	0.0	<50	<50	<50
6343	Major Collector	HIGH ST	48	49	0.4	<50	<50	<50
6346	Local	MONTECITO AVE	2	2	0.0	<50	<50	<50
6347	Local	CASANOVA AVE	44	46	1.8	<50	<50	<50
6352	Local	CLAY ST	47	48	0.4	<50	<50	<50
6353	Local	ROOSEVELT ST	46	56	9.9	<50	<50	<50
6356	Local	LARKIN ST	44	2	-41.9	<50	<50	<50
6357	Minor Arterial	FRANKLIN ST	58	60	1.5	<50	<50	50
6378	Local	ENGLISH AVE	2	2	0.0	<50	<50	<50
6379	Local	JOHN ST	2	2	0.0	<50	<50	<50
6381	Major Collector	HIGH ST	51	52	0.4	<50	<50	<50
6382	Minor Arterial	VAN BUREN ST	2	2	0.0	<50	<50	<50
6383	Minor Arterial	FRANKLIN ST	58	60	1.6	<50	<50	50
6386	Major Collector	MONTECITO AVE	2	2	0.0	<50	<50	<50
6387	Local	HANNON AVE	42	44	2.2	<50	<50	<50
6391	Local	CLAY ST	54	57	3.1	<50	<50	<50
6392	Local	HARRISON ST	54	54	0.2	<50	<50	<50
6394	Major Collector	JEFFERSON ST	46	47	0.2	<50	<50	<50
6402	Minor Arterial	FRANKLIN ST	58	60	1.6	<50	<50	50
6404	Local	ENCINA AVE	2	2	0.0	<50	<50	<50
6406	Local	BRANNER AVE	2	2	0.0	<50	<50	<50
6407	Major Collector	JEFFERSON ST	44	45	0.4	<50	<50	<50
6408	Local	PACIFIC ST	53	54	0.9	<50	<50	<50
6409	Local	CLAY ST	55	56	1.6	<50	<50	<50
6410	Major Collector	JEFFERSON ST	46	47	0.2	<50	<50	<50
6411	Major Collector	MONTECITO AVE	45	46	1.4	<50	<50	<50
6412	Local	JOHN ST	2	2	0.0	<50	<50	<50
6414	Local	ALVARADO ST	2	53	50.7	<50	<50	<50

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future:	Future:	Future:
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Distance from Centerline to DNL 70 dB	Distance from Centerline to DNL 65 dB	Distance from Centerline to DNL 60 dB
6415	Principal Arterial	FRANKLIN ST	64	65	1.0	<50	50	110
6426	Local	JOHNSON AVE	2	2	0.0	<50	<50	<50
6427	Local	TYLER ST	60	61	0.9	<50	<50	60
6428	Principal Arterial	FRANKLIN ST	64	65	1.0	<50	50	110
6431	Local	MASON RD	2	2	0.0	<50	<50	<50
6432	Local	MONROE ST	49	52	3.4	<50	<50	<50
6433	Major Collector	JEFFERSON ST	55	56	1.5	<50	<50	<50
6439	Major Collector	FIGUEROA ST	58	58	-0.2	<50	<50	<50
6440	Major Collector	MONTECITO AVE	42	44	2.2	<50	<50	<50
6441	Local	RAMONA AVE	2	2	0.0	<50	<50	<50
6446	Local	BRANNER AVE	2	2	0.0	<50	<50	<50
6447	Local	HANNON AVE	2	2	0.0	<50	<50	<50
6448	Minor Arterial	WASHINGTON ST	60	59	-1.0	<50	<50	<50
6449	Principal Arterial	FRANKLIN ST	64	65	0.9	<50	50	110
6458	Local	VIA DEL REY	2	2	0.0	<50	<50	<50
6459	Major Collector	VETERANS DR	46	46	0.3	<50	<50	<50
6462	Local	DEL MONTE AVE	59	57	-1.3	<50	<50	<50
6463	Local	TAUFNER LN	2	2	0.0	<50	<50	<50
6464	Local	LARKIN ST	47	46	-0.4	<50	<50	<50
6465	Major Collector	JEFFERSON ST	53	55	1.7	<50	<50	<50
6466	Principal Arterial	FRANKLIN ST	48	60	11.8	<50	<50	50
6468	Local	MONROE ST	52	52	0.7	<50	<50	<50
6469	Local	JOHNSON AVE	2	2	0.0	<50	<50	<50
6472	Local	PARK AVE	2	2	0.0	<50	<50	<50
6475	Major Collector	JEFFERSON ST	59	60	1.8	<50	<50	50
6477	Major Collector	CASANOVA AVE	50	50	0.7	<50	<50	<50
6482	Local	HELVIC AVE	2	2	0.0	<50	<50	<50
6484	Major Collector	FIGUEROA ST	58	58	-0.2	<50	<50	<50
6485	Principal Arterial	FRANKLIN ST	48	60	11.8	<50	<50	50
6488	Local	LARKIN ST	2	2	0.0	<50	<50	<50
6489	Major Collector	JEFFERSON ST	53	55	1.8	<50	<50	<50
6490	Local	BRANNER AVE	2	2	0.0	<50	<50	<50
6491	Local	JOHN ST	2	2	0.0	<50	<50	<50
6493	Local	LAKE ST	2	54	51.4	<50	<50	<50
6494	Major Collector	CAM AGUAJITO	54	62	8.1	<50	<50	70
6497	Major Collector	CASA VERDE AVE	69	69	-0.3	<50	90	190
6499	Major Collector	SLOAT AVE	58	62	4.8	<50	<50	70
6506	Major Collector	JEFFERSON ST	59	61	1.7	<50	<50	50
6509	Local	ALVARADO ST	2	53	50.7	<50	<50	<50
6510	Local	CORTES ST	59	57	-1.3	<50	<50	<50
6511	Principal Arterial	FRANKLIN ST	64	64	-0.3	<50	<50	90
6514	Local	1ST ST	2	59	56.6	<50	<50	<50
6515	Local	OCEAN AVE	43	45	1.7	<50	<50	<50
6516	Minor Arterial	VAN BUREN ST	2	44	42.2	<50	<50	<50
6519	Local	BRANNER AVE	2	2	0.0	<50	<50	<50
6520	Local	RAMONA AVE	2	2	0.0	<50	<50	<50
6521	Local	TOYON AVE	2	2	0.0	<50	<50	<50
6522	Local	HANNON AVE	2	2	0.0	<50	<50	<50
6523	Minor Arterial	WASHINGTON ST	60	60	0.4	<50	<50	50
6525	Major Collector	CAM EL ESTERO	47	59	12.2	<50	<50	50
6526	Principal Arterial	FRANKLIN ST	2	61	58.4	<50	<50	50
6527	Major Collector	JEFFERSON ST	59	61	1.6	<50	<50	50
6528	Local	1ST ST	48	59	10.8	<50	<50	<50
6529	Local	PARK AVE	2	58	56.3	<50	<50	<50
6530	Local	ENCINA AVE	2	62	59.5	<50	<50	60
6534	Local	PIERCE ST	51	50	-0.7	<50	<50	<50
6535	Major Collector	JEFFERSON ST	60	61	1.4	<50	<50	60
6541	Ramp	RAMP	65	65	0.0	<50	50	110
6542	Major Collector	CASA VERDE WAY	69	70	0.7	50	110	230
6547	Major Collector	FIGUEROA ST	55	55	0.8	<50	<50	<50
6549	Local	ADAMS ST	2	2	0.0	<50	<50	<50
6550	Local	BONIFACIO PL	2	2	0.0	<50	<50	<50
6551	Local	1ST ST	2	2	0.0	<50	<50	<50
6552	Major Collector	CAM AGUAJITO	54	60	5.7	<50	<50	50
6553	Major Collector	MONTECITO AVE	47	48	0.7	<50	<50	<50
6556	Major Collector	SLOAT AVE	57	62	4.9	<50	<50	70
6557	Local	SEQUOIA AVE	2	2	0.0	<50	<50	<50
6558	Major Collector	CASANOVA AVE	50	50	0.7	<50	<50	<50
6562	Local	WATSON ST	44	46	2.2	<50	<50	<50

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future:	Future:	Future:
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Distance from Centerline to DNL 70 dB	Distance from Centerline to DNL 65 dB	Distance from Centerline to DNL 60 dB
6563	Local	MADISON ST	52	53	0.7	<50	<50	<50
6566	Minor Arterial	WASHINGTON ST	60	60	0.4	<50	<50	50
6569	Local	CORTES ST	57	62	5.4	<50	<50	70
6570	Local	ANTHONY ST	2	44	42.2	<50	<50	<50
6576	Local	2ND ST	2	59	57.2	<50	<50	50
6577	Local	OCEAN AVE	2	2	0.0	<50	<50	<50
6583	Major Collector	CAM EL ESTERO	48	50	1.5	<50	<50	<50
6584	Local	ANTHONY ST	2	2	0.0	<50	<50	<50
6585	Ramp	RAMP	67	67	0.1	<50	60	140
6586	Local	2ND ST	2	59	57.3	<50	<50	50
6587	Local	PARK AVE	47	46	-0.5	<50	<50	<50
6590	Local	ORD ST	2	2	0.0	<50	<50	<50
6591	Local	MADISON ST	52	53	0.8	<50	<50	<50
6596	Major Collector	FIGUEROA ST	55	56	0.8	<50	<50	<50
6597	Local	SEQUOIA AVE	2	2	0.0	<50	<50	<50
6598	Local	HANNON AVE	2	2	0.0	<50	<50	<50
6599	Major Collector	PEARL ST	48	52	4.0	<50	<50	<50
6600	Local	ADAMS ST	2	2	0.0	<50	<50	<50
6601	Local	KOLB AVE	2	2	0.0	<50	<50	<50
6604	Major Collector	PEARL ST	45	48	3.2	<50	<50	<50
6605	Minor Arterial	WASHINGTON ST	60	60	0.4	<50	<50	50
6606	Major Collector	PEARL ST	46	48	2.1	<50	<50	<50
6607	Major Collector	PEARL ST	46	48	2.1	<50	<50	<50
6608	Local	2ND ST	2	59	57.2	<50	<50	50
6609	Major Collector	CAM AGUAJITO	54	60	5.9	<50	<50	50
6613	Local	CORTES ST	57	63	5.9	<50	<50	80
6614	Major Collector	PEARL ST	2	53	50.9	<50	<50	<50
6616	Major Collector	SLOAT AVE	57	63	5.2	<50	<50	70
6619	Major Collector	FIGUEROA ST	55	56	0.7	<50	<50	<50
6622	Major Collector	CAM EL ESTERO	48	53	4.5	<50	<50	<50
6623	Major Collector	PEARL ST	47	57	9.6	<50	<50	<50
6626	Local	3RD ST	2	58	55.7	<50	<50	<50
6627	Local	OCEAN AVE	2	2	0.0	<50	<50	<50
6632	Local	ALMA ST	2	2	0.0	<50	<50	<50
6633	Minor Arterial	ABREGO ST	60	60	0.4	<50	<50	50
6636	Major Collector	MONTECITO AVE	56	56	0.7	<50	<50	<50
6637	Major Collector	CASA VERDE WAY	69	69	-0.1	<50	90	190
6639	Major Collector	CASANOVA AVE	50	50	0.7	<50	<50	<50
6641	Local	RAMONA AVE	2	2	0.0	<50	<50	<50
6643	Local	CORTES ST	57	63	5.3	<50	<50	80
6644	Local	ROBINSON ST	2	2	0.0	<50	<50	<50
6645	Local	3RD ST	2	58	55.7	<50	<50	<50
6646	Local	PARK AVE	47	47	0.3	<50	<50	<50
6649	Major Collector	CAM EL ESTERO	47	51	3.2	<50	<50	<50
6650	Local	ROBINSON ST	2	2	0.0	<50	<50	<50
6652	Local	3RD ST	44	53	9.6	<50	<50	<50
6653	Major Collector	CAM AGUAJITO	49	47	-1.6	<50	<50	<50
6654	Major Collector	SLOAT AVE	57	62	4.9	<50	<50	70
6655	Major Collector	FIGUEROA ST	55	55	0.6	<50	<50	<50
6656	Local	DRY CREEK RD	2	2	0.0	<50	<50	<50
6660	Local	4TH ST	2	2	0.0	<50	<50	<50
6661	Local	OCEAN AVE	2	2	0.0	<50	<50	<50
6662	Local	CORTES ST	57	63	5.3	<50	<50	80
6663	Local	WEBSTER ST	55	56	0.9	<50	<50	<50
6665	Local	KOLB AVE	2	2	0.0	<50	<50	<50
6666	Local	HANNON AVE	2	2	0.0	<50	<50	<50
6668	Major Collector	CAM EL ESTERO	43	47	3.4	<50	<50	<50
6669	Other Freeways or Expressways	STATE HWY 1	78	78	0.0	170	360	780
6670	Ramp	RAMP	61	60	-0.2	<50	<50	50
6671	Major Collector	CASANOVA AVE	50	50	0.7	<50	<50	<50
6672	Local	WEBSTER ST	53	54	0.5	<50	<50	<50
6673	Minor Arterial	ABREGO ST	60	60	0.4	<50	<50	50
6674	Local	4TH ST	2	2	0.0	<50	<50	<50
6675	Local	PARK AVE	2	2	0.0	<50	<50	<50
6676	Local	HERRMANN DR	2	2	0.0	<50	<50	<50
6684	Local	WEBSTER ST	45	49	3.7	<50	<50	<50
6685	Local	HOUSTON ST	2	2	0.0	<50	<50	<50
6686	Local	4TH ST	2	2	0.0	<50	<50	<50
6687	Major Collector	CAM AGUAJITO	55	53	-1.9	<50	<50	<50



ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future:	Future:	Future:
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Distance from Centerline to DNL 70 dB	Distance from Centerline to DNL 65 dB	Distance from Centerline to DNL 60 dB
6692	Local	HANNON AVE	2	2	0.0	<50	<50	<50
6695	Major Collector	SLOAT AVE	57	62	4.9	<50	<50	70
6704	Local	5TH ST	2	2	0.0	<50	<50	<50
6705	Local	OCEAN AVE	2	2	0.0	<50	<50	<50
6713	Minor Arterial	ABREGO ST	61	61	0.1	<50	<50	60
6715	Local	VIA DEL REY	2	2	0.0	<50	<50	<50
6718	Local	FIGUEROA ST	56	56	0.1	<50	<50	<50
6719	Local	CHURCH ST	52	52	-0.3	<50	<50	<50
6720	Local	5TH ST	2	2	0.0	<50	<50	<50
6721	Local	PARK AVE	2	2	0.0	<50	<50	<50
6722	Local	DELA VINA AVE	2	2	0.0	<50	<50	<50
6725	Local	RAMONA AVE	2	2	0.0	<50	<50	<50
6728	Local	5TH ST	2	2	0.0	<50	<50	<50
6729	Major Collector	CAM AGUAJITO	50	49	-1.0	<50	<50	<50
6732	Major Collector	SLOAT AVE	60	64	3.5	<50	<50	90
6733	Local	DRY CREEK RD	2	2	0.0	<50	<50	<50
6735	Local	WEBSTER ST	54	55	0.6	<50	<50	<50
6736	Local	RAMONA AVE	2	2	0.0	<50	<50	<50
6744	Local	6TH ST	2	2	0.0	<50	<50	<50
6745	Local	OCEAN AVE	2	2	0.0	<50	<50	<50
6746	Major Collector	CASANOVA AVE	2	2	0.0	<50	<50	<50
6750	Major Collector	CASA VERDE WAY	68	68	-0.1	<50	80	180
6758	Local	ALCALDE AVE	2	2	0.0	<50	<50	<50
6760	Local	6TH ST	2	2	0.0	<50	<50	<50
6761	Local	PARK AVE	2	2	0.0	<50	<50	<50
6762	Local	DEL ROSA AVE	2	2	0.0	<50	<50	<50
6763	Local	RAMONA AVE	2	2	0.0	<50	<50	<50
6764	Local	CASS ST	43	43	0.4	<50	<50	<50
6765	Local	HARTNELL ST	56	56	0.9	<50	<50	<50
6771	Local	6TH ST	2	2	0.0	<50	<50	<50
6772	Major Collector	CAM AGUAJITO	50	49	-1.0	<50	<50	<50
6773	Major Collector	SLOAT AVE	60	64	3.5	<50	<50	90
6774	Major Collector	CAM EL ESTERO	58	57	-0.2	<50	<50	<50
6780	Local	7TH ST	49	50	1.3	<50	<50	<50
6781	Local	OCEAN AVE	2	2	0.0	<50	<50	<50
6784	Local	RAMONA AVE	2	2	0.0	<50	<50	<50
6785	Local	CASS ST	56	52	-3.9	<50	<50	<50
6786	Local	DUNDEE DR	2	2	0.0	<50	<50	<50
6796	Local	PINEHILL WAY	2	2	0.0	<50	<50	<50
6797	Local	7TH ST	49	50	1.3	<50	<50	<50
6798	Local	PARK AVE	2	2	0.0	<50	<50	<50
6799	Local	MAJOR SHERMAN LN	2	2	0.0	<50	<50	<50
6804	Local	SARGENT CT	2	2	0.0	<50	<50	<50
6809	Local	MESA RD	2	2	0.0	<50	<50	<50
6810	Local	PERRY LN	2	2	0.0	<50	<50	<50
6811	Local	7TH ST	40	42	1.4	<50	<50	<50
6812	Major Collector	CAM AGUAJITO	52	51	-0.7	<50	<50	<50
6815	Local	RAMONA AVE	2	2	0.0	<50	<50	<50
6816	Major Collector	CASA VERDE WAY	66	67	1.2	<50	70	150
6817	Major Collector	SLOAT AVE	60	63	3.7	<50	<50	80
6819	Local	PINEHILL WAY	2	2	0.0	<50	<50	<50
6821	Local	FOREST RIDGE RD	2	2	0.0	<50	<50	<50
6823	Local	STRATFORD PL	2	2	0.0	<50	<50	<50
6824	Local	HERRMANN DR	2	2	0.0	<50	<50	<50
6825	Local	VIA CHUALAR	2	2	0.0	<50	<50	<50
6827	Local	CASS ST	56	52	-3.9	<50	<50	<50
6828	Local	DORMODY CT	2	2	0.0	<50	<50	<50
6829	Local	AIRPORT RD	2	2	0.0	<50	<50	<50
6830	Local	8TH ST	2	2	0.0	<50	<50	<50
6831	Local	OCEAN AVE	2	2	0.0	<50	<50	<50
6834	Local	HERRMANN DR	2	2	0.0	<50	<50	<50
6835	Local	HERRMANN DR	2	2	0.0	<50	<50	<50
6838	Local	AIRPORT RD	2	2	0.0	<50	<50	<50
6839	Local	8TH ST	2	2	0.0	<50	<50	<50
6840	Local	PARK AVE	2	2	0.0	<50	<50	<50
6842	Minor Arterial	PACIFIC ST	53	56	2.5	<50	<50	<50
6843	Local	CASS ST	56	57	0.5	<50	<50	<50
6852	Major Collector	MARTIN ST	54	51	-2.4	<50	<50	<50
6853	Local	LOGAN LN	2	2	0.0	<50	<50	<50

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future:	Future:	Future:
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Distance from Centerline to DNL 70 dB	Distance from Centerline to DNL 65 dB	Distance from Centerline to DNL 60 dB
6854	Local	FOREST RIDGE RD	2	2	0.0	<50	<50	<50
6855	Local	SKYLINE CREST DR	2	2	0.0	<50	<50	<50
6856	Major Collector	FAIRGROUNDS RD	58	60	1.9	<50	<50	50
6858	Local	LERWICK DR	2	2	0.0	<50	<50	<50
6860	Major Collector	MARTIN ST	50	48	-2.1	<50	<50	<50
6862	Local	CASS ST	52	52	0.6	<50	<50	<50
6863	Local	9TH ST	2	2	0.0	<50	<50	<50
6864	Local	OCEAN AVE	2	2	0.0	<50	<50	<50
6868	Major Collector	CASANOVA AVE	2	2	0.0	<50	<50	<50
6871	Local	AIRPORT RD	2	2	0.0	<50	<50	<50
6872	Major Collector	MARTIN ST	50	48	-2.1	<50	<50	<50
6879	Major Collector	SLOAT AVE	60	63	3.7	<50	<50	80
6880	Local	DRY CREEK RD	2	2	0.0	<50	<50	<50
6883	Major Collector	MARK THOMAS DR	66	68	2.1	<50	80	170
6884	Local	PARK AVE	2	2	0.0	<50	<50	<50
6892	Other Freeways or Expressways	STATE HWY 1	79	78	-0.3	180	380	810
6894	Major Collector	MARTIN ST	50	48	-2.1	<50	<50	<50
6896	Local	CASANOVA AVE	2	2	0.0	<50	<50	<50
6897	Major Collector	MARTIN ST	54	51	-2.4	<50	<50	<50
6906	Major Collector	EUCLID AVE	2	2	0.0	<50	<50	<50
6907	Major Collector	EUCLID AVE	2	2	0.0	<50	<50	<50
6910	Major Collector	EUCLID AVE	2	2	0.0	<50	<50	<50
6912	Local	AIRPORT RD	2	2	0.0	<50	<50	<50
6914	Local	TOYON DR	2	2	0.0	<50	<50	<50
6915	Major Collector	ELDORADO ST	52	52	-0.1	<50	<50	<50
6917	Major Collector	MAR VISTA DR	47	47	0.2	<50	<50	<50
6918	Local	CASS ST	57	53	-3.7	<50	<50	<50
6920	Local	AIRPORT RD	2	2	0.0	<50	<50	<50
6922	Local	SKYLINE CREST DR	2	2	0.0	<50	<50	<50
6925	Local	FOREST RIDGE RD	2	2	0.0	<50	<50	<50
6930	Major Collector	MARK THOMAS DR	65	67	2.4	<50	70	150
6933	Minor Arterial	FOUNTAIN AVE	56	55	-0.8	<50	<50	<50
6935	Local	MITCHER ST	2	2	0.0	<50	<50	<50
6936	Local	HALSEY AVE	2	2	0.0	<50	<50	<50
6938	Local	MAJOR SHERMAN LN	2	2	0.0	<50	<50	<50
6939	Major Collector	EL DORADO ST	54	54	0.7	<50	<50	<50
6940	Local	COLTON ST	2	2	0.0	<50	<50	<50
6941	Local	DOUD ST	2	2	0.0	<50	<50	<50
6942	Local	VIA LADERA	2	2	0.0	<50	<50	<50
6943	Local	GLENWOOD CIR	2	2	0.0	<50	<50	<50
6944	Local	HALSEY AVE	2	2	0.0	<50	<50	<50
6949	Local	COLTON ST	2	2	0.0	<50	<50	<50
6950	Local	FOUNTAIN AVE	2	2	0.0	<50	<50	<50
6959	Major Collector	MAR VISTA DR	52	54	2.2	<50	<50	<50
6963	Principal Arterial	MUNRAS AVE	69	69	0.3	<50	100	210
6964	Local	CARMELITO AVE	53	54	0.7	<50	<50	<50
6966	Local	COLTON ST	2	2	0.0	<50	<50	<50
6971	Local	COLTON ST	2	2	0.0	<50	<50	<50
6975	Major Collector	AGUAJITO RD	66	68	1.1	<50	70	160
6976	Local	MITCHER ST	2	2	0.0	<50	<50	<50
6980	Local	RALSTON DR	2	2	0.0	<50	<50	<50
6981	Local	COLTON ST	2	2	0.0	<50	<50	<50
6982	Local	MC CAIN ST	2	2	0.0	<50	<50	<50
6988	Local	O HARE AVE	2	2	0.0	<50	<50	<50
6989	Minor Arterial	PACIFIC ST	56	55	-0.8	<50	<50	<50
6990	Local	DOUD ST	2	2	0.0	<50	<50	<50
6994	Local	COLTON ST	2	2	0.0	<50	<50	<50
7001	Local	GROVE ST	2	2	0.0	<50	<50	<50
7002	Local	FOUNTAIN AVE	2	2	0.0	<50	<50	<50
7012	Major Collector	MAR VISTA DR	52	54	2.2	<50	<50	<50
7016	Local	GROVE ST	2	2	0.0	<50	<50	<50
7017	Local	ALAMEDA ST	2	2	0.0	<50	<50	<50
7023	Major Collector	SAN BERNABE DR	54	53	-0.7	<50	<50	<50
7030	Local	VIA GAYUBA	49	50	0.7	<50	<50	<50
7031	Local	GROVE ST	2	2	0.0	<50	<50	<50
7034	Local	VIA ENCANTO	2	2	0.0	<50	<50	<50
7035	Local	VIA PARAISO	2	2	0.0	<50	<50	<50
7036	Major Collector	ELDORADO ST	47	47	0.2	<50	<50	<50
7038	Major Collector	SAN BERNABE DR	52	53	0.5	<50	<50	<50

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future:	Future:	Future:
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Distance from Centerline to DNL 70 dB	Distance from Centerline to DNL 65 dB	Distance from Centerline to DNL 60 dB
7044	Local	VIA MIRADA	2	2	0.0	<50	<50	<50
7045	Local	MESA RD	2	2	0.0	<50	<50	<50
7046	Minor Arterial	PACIFIC ST	57	60	2.9	<50	<50	50
7047	Local	VISCAINO RD	2	2	0.0	<50	<50	<50
7050	Local	SHADY LN	2	2	0.0	<50	<50	<50
7055	Major Collector	SOLEDAD DR	55	57	1.4	<50	<50	<50
7057	Major Collector	SAN BERNABE DR	53	56	2.6	<50	<50	<50
7058	Local	SOLEDAD DR	2	2	0.0	<50	<50	<50
7059	Local	VIA CIMARRON	2	2	0.0	<50	<50	<50
7060	Local	VIA PARAISO	2	2	0.0	<50	<50	<50
7061	Principal Arterial	MUNRAS AVE	68	68	0.1	<50	80	170
7062	Minor Arterial	PACIFIC ST	57	60	2.8	<50	<50	50
7063	Local	ALAMEDA ST	2	2	0.0	<50	<50	<50
7066	Principal Arterial	MUNRAS AVE	68	69	0.2	<50	90	180
7067	Local	ALAMEDA ST	2	2	0.0	<50	<50	<50
7071	Local	VIA MIRADA	2	2	0.0	<50	<50	<50
7074	Local	VIA PARAISO	2	2	0.0	<50	<50	<50
7075	Local	SOLEDAD DR	2	2	0.0	<50	<50	<50
7076	Local	ALTA MESA RD	2	2	0.0	<50	<50	<50
7080	Minor Arterial	PACIFIC ST	57	60	2.9	<50	<50	50
7083	Local	BARTOLOMEA WAY	2	2	0.0	<50	<50	<50
7084	Major Collector	SAN BERNABE DR	52	53	0.5	<50	<50	<50
7088	Local	VIA PARAISO	2	2	0.0	<50	<50	<50
7091	Local	VIA VENTURA	2	2	0.0	<50	<50	<50
7094	Local	WELLINGS PL	2	2	0.0	<50	<50	<50
7096	Major Collector	SAN BERNABE DR	53	53	-0.7	<50	<50	<50
7097	Local	MAR VISTA DR	2	2	0.0	<50	<50	<50
7098	Local	CUESTA VISTA DR	2	2	0.0	<50	<50	<50
7099	Local	ALTA MESA RD	2	2	0.0	<50	<50	<50
7100	Local	VIA DESCANSO	2	2	0.0	<50	<50	<50
7101	Local	VIA DESCANSO	2	2	0.0	<50	<50	<50
7105	Local	MAR VISTA DR	2	2	0.0	<50	<50	<50
7108	Major Collector	SKYLINE FOREST DR	53	53	0.5	<50	<50	<50
7109	Local	GREENWOOD WAY	2	2	0.0	<50	<50	<50
7110	Major Collector	SKYLINE FOREST DR	53	53	0.5	<50	<50	<50
7111	Local	ALTA MESA CIR	2	2	0.0	<50	<50	<50
7114	Minor Arterial	PACIFIC ST	57	60	2.9	<50	<50	50
7115	Major Collector	SAN BERNABE DR	53	53	-0.7	<50	<50	<50
7116	Major Collector	SKYLINE FOREST DR	53	54	1.0	<50	<50	<50
7118	Major Collector	SKYLINE FOREST DR	53	54	1.0	<50	<50	<50
7120	Local	ALTA MESA RD	2	2	0.0	<50	<50	<50
7121	Local	DON DAHVEE LN	44	44	0.4	<50	<50	<50
7123	Major Collector	SOLEDAD DR	56	57	1.3	<50	<50	<50
7124	Major Collector	SOLEDAD DR	49	49	0.3	<50	<50	<50
7129	Local	VIA ARBOLES	54	56	2.1	<50	<50	<50
7130	Local	CUESTA VISTA DR	2	2	0.0	<50	<50	<50
7131	Local	SOLEDAD PL	48	48	0.4	<50	<50	<50
7132	Minor Arterial	PACIFIC ST	54	56	1.2	<50	<50	<50
7133	Local	VIA ESPERANZA	53	54	1.1	<50	<50	<50
7134	Local	VIA ARCEROLO DR	2	2	0.0	<50	<50	<50
7137	Local	VIA ENCINA	2	2	0.0	<50	<50	<50
7138	Major Collector	SOLEDAD DR	56	56	0.4	<50	<50	<50
7148	Local	VIA ESPERANZA	53	54	1.1	<50	<50	<50
7149	Major Collector	SOLEDAD DR	56	56	0.4	<50	<50	<50
7150	Major Collector	MONTE VISTA DR	45	46	1.0	<50	<50	<50
7154	Principal Arterial	MUNRAS AVE	68	69	0.6	<50	90	190
7156	Local	HENDERSON WAY	2	2	0.0	<50	<50	<50
7161	Local	SKYLINE DR	54	54	0.0	<50	<50	<50
7165	Local	MAR VISTA DR	46	46	0.4	<50	<50	<50
7167	Major Collector	MAR VISTA DR	49	51	1.7	<50	<50	<50
7170	Major Collector	GARDEN RD	63	66	2.8	<50	60	120
7171	Major Collector	MONTE VISTA DR	50	50	0.5	<50	<50	<50
7172	Major Collector	MAR VISTA DR	55	56	0.2	<50	<50	<50
7173	Local	LINDA VISTA DR	2	2	0.0	<50	<50	<50
7177	Major Collector	MAR VISTA DR	2	2	0.0	<50	<50	<50
7178	Local	PORTA VISTA DR	2	2	0.0	<50	<50	<50
7181	Major Collector	SOLEDAD DR	56	57	0.3	<50	<50	<50
7183	Major Collector	MAR VISTA DR	2	2	0.0	<50	<50	<50
7184	Local	MONTE VISTA DR	2	2	0.0	<50	<50	<50

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future:	Future:	Future:
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Distance from Centerline to DNL 70 dB	Distance from Centerline to DNL 65 dB	Distance from Centerline to DNL 60 dB
7188	Principal Arterial	MUNRAS AVE	69	70	0.4	50	100	220
7189	Major Collector	MAR VISTA DR	51	53	1.4	<50	<50	<50
7190	Major Collector	MAR VISTA DR	51	53	1.4	<50	<50	<50
7194	Major Collector	SOLEDAD DR	60	61	0.8	<50	<50	60
7200	Other Freeways or Expressways	STATE HWY 1	78	78	0.4	170	370	790
7206	Local	MONTE VISTA DR	2	2	0.0	<50	<50	<50
7211	Ramp	RAMP	67	67	0.4	<50	70	150
7213	Major Collector	SOLEDAD DR	58	59	0.9	<50	<50	<50
7215	Local	SHEPHERDS KNOLL RD	2	2	0.0	<50	<50	<50
7218	Local	VIA CASTANADA	2	2	0.0	<50	<50	<50
7219	Local	SIERRA VISTA DR	2	2	0.0	<50	<50	<50
7223	Local	SHEPHERDS KNOLL RD	2	2	0.0	<50	<50	<50
7227	Local	VIA ISOLA	2	2	0.0	<50	<50	<50
7230	Local	VIA CASTANADA	2	2	0.0	<50	<50	<50
7231	Local	CIELO VISTA DR	2	2	0.0	<50	<50	<50
7232	Local	VIA MARETTIMO	2	2	0.0	<50	<50	<50
7238	Local	SCENIC DR	2	2	0.0	<50	<50	<50
7244	Local	DEER FOREST DR	2	2	0.0	<50	<50	<50
7245	Ramp	RAMP	65	66	0.3	<50	50	120
7250	Local	TRAPANI CIR	2	2	0.0	<50	<50	<50
7251	Local	VIA ISOLA	2	2	0.0	<50	<50	<50
7261	Local	VIA ISOLA	2	2	0.0	<50	<50	<50
7265	Local	MARSALA CIR	2	2	0.0	<50	<50	<50
7269	Local	DEER FOREST DR	2	2	0.0	<50	<50	<50
7271	Local	VIA ISOLA	2	2	0.0	<50	<50	<50
7276	Local	DEER STALKER PATH	2	2	0.0	<50	<50	<50
7285	Local	DEER FOREST DR	2	2	0.0	<50	<50	<50
7291	Local	DEER FOREST DR	2	2	0.0	<50	<50	<50
			66	2	-63.9	<50	<50	<50
7297	Local	HOOPER LN	2	2	0.0	<50	<50	<50
7298	Local	LITTLEFIELD RD	2	2	0.0	<50	<50	<50
7299	Local	LITTLEFIELD RD	2	2	0.0	<50	<50	<50
7300	Local	LITTLEFIELD RD	2	2	0.0	<50	<50	<50
7304	Local	LITTLEFIELD RD	2	2	0.0	<50	<50	<50
7307	Local	LITTLEFIELD RD	2	2	0.0	<50	<50	<50
7308	Local	FLAGG HILL DR	2	2	0.0	<50	<50	<50
7309	Local	DEER FOREST DR	2	2	0.0	<50	<50	<50
7315	Local	DEER FOREST DR	2	2	0.0	<50	<50	<50
9369	Ramp	RAMP	56	61	4.9	<50	<50	50
9370	Principal Arterial	MUNRAS AVE	70	70	0.4	50	110	230
9813	Local	RYAN RANCH RD	2	2	0.0	<50	<50	<50
9815	Local	VIRGIN AVE	2	41	38.9	<50	<50	<50
9816	Local	GRANT AVE	2	2	0.0	<50	<50	<50
9817	Major Collector	ENGLISH AVE	59	61	1.2	<50	<50	50
9818	Local	AIRPORT RD	2	2	0.0	<50	<50	<50
9819	Local	AIRPORT RD	2	2	0.0	<50	<50	<50
9820	Major Collector	FAIRGROUNDS RD	50	51	0.8	<50	<50	<50
9821	Local	AIRPORT RD	45	46	0.9	<50	<50	<50
9822	Local	AIRPORT RD	55	55	0.3	<50	<50	<50
9823	Local	AIRPORT RD	2	2	0.0	<50	<50	<50
9824	Other Freeways or Expressways	STATE HWY 1	78	78	0.4	180	380	830
9825	Other Freeways or Expressways	STATE HWY 1	78	79	0.3	190	400	860
9826	Major Collector	CASANOVA AVE	49	50	1.1	<50	<50	<50
9827	Major Collector	CASA VERDE AVE	69	69	-0.3	<50	90	190
9829	Major Collector	CASA VERDE WAY	69	69	-0.7	<50	90	190
9832	Local	O HARE AVE	2	2	0.0	<50	<50	<50
9834	Local	O HARE AVE	2	2	0.0	<50	<50	<50
9836	Other Freeways or Expressways	STATE HWY 1	78	78	0.0	170	360	780
9837	Ramp	RAMP	62	65	3.1	<50	50	100
9838	Other Freeways or Expressways	STATE HWY 1	78	78	0.4	180	380	830
9839	Other Freeways or Expressways	STATE HWY 1	78	78	0.4	170	370	800
9840	Other Freeways or Expressways	STATE HWY 1	78	78	-0.2	170	360	780
9841	Ramp	RAMP	47	51	4.3	<50	<50	<50
9842	Ramp	RAMP	68	68	-0.3	<50	80	170
9843	Ramp	RAMP	69	69	0.2	<50	90	200
9844	Ramp	RAMP	49	49	0.2	<50	<50	<50
9845	Ramp	RAMP	69	69	0.2	50	100	210
9846	Ramp	RAMP	62	66	4.1	<50	60	120
9847	Ramp	RAMP	62	66	4.1	<50	60	120

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future:	Future:	Future:
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Distance from Centerline to DNL 70 dB	Distance from Centerline to DNL 65 dB	Distance from Centerline to DNL 60 dB
9848	Major Collector	MARK THOMAS DR	66	68	2.1	<50	80	170
9849	Major Collector	FAIRGROUNDS RD	66	68	2.1	<50	80	170
9850	Local	LAKE DR	2	2	0.0	<50	<50	<50
9851	Local	GARDEN AVE	2	2	0.0	<50	<50	<50
9852	Major Collector	PEARL ST	46	58	12.4	<50	<50	<50
9853	Local	WEBSTER ST	58	57	-0.1	<50	<50	<50
9856	Major Collector	SLOAT AVE	60	63	3.7	<50	<50	80
9858	Local	CUNNINGHAM RD	2	61	58.8	<50	<50	60
9859	Local	CUNNINGHAM RD	2	61	58.8	<50	<50	60
9860	Local	CUNNINGHAM RD	2	61	58.8	<50	<50	60
9861	Local	CUNNINGHAM RD	2	52	49.9	<50	<50	<50
9862	Local	CUNNINGHAM RD	2	52	49.9	<50	<50	<50
9863	Local	STONE RD	2	2	0.0	<50	<50	<50
9864	Local	STONE RD	2	2	0.0	<50	<50	<50
9865	Local	UNIVERSITY WAY	2	2	0.0	<50	<50	<50
9866	Local	UNIVERSITY WAY	2	2	0.0	<50	<50	<50
9867	Local	MORSE DR	2	46	44.0	<50	<50	<50
9869	Local	LAKE DR	2	56	53.5	<50	<50	<50
9870	Local	LAKE DR	2	2	0.0	<50	<50	<50
9871	Local	GARDEN DR	2	61	59.3	<50	<50	60
9872	Local	GARDEN DR	2	62	59.5	<50	<50	60
9873	Local	EAST RD	2	49	46.8	<50	<50	<50
9874	Local	UNIVERSITY WAY	2	49	46.8	<50	<50	<50
9875	Local	BUTLER RD	2	2	0.0	<50	<50	<50
9876	Local	MENNEKEN CIR	2	2	0.0	<50	<50	<50
9885	Major Collector	GARDEN RD	64	66	2.2	<50	60	120
9886	Major Collector	GARDEN RD	66	69	2.4	<50	90	190
9893	Other Freeways or Expressways	STATE HWY 1	79	79	0.2	190	420	900
10117	Major Collector	OLD GOLF COURSE RD	60	63	3.7	<50	<50	80
10118	Local	SCENIC DR	2	2	0.0	<50	<50	<50
10119	Ramp	RAMP	66	66	0.2	<50	60	120
10120	Other Freeways or Expressways	STATE HWY 1	77	78	0.4	170	360	780
10121	Other Freeways or Expressways	STATE HWY 1	77	78	0.6	160	350	760
10122	Ramp	RAMP	58	59	1.0	<50	<50	<50
10123	Major Collector	SOLEDAD DR	66	67	0.6	<50	70	140
10124	Other Freeways or Expressways	STATE HWY 1	78	78	0.0	170	370	800
10125	Principal Arterial	MUNRAS AVE	71	72	0.4	60	140	300
10126	Major Collector	SOLEDAD DR	56	57	0.3	<50	<50	<50
10127	Minor Arterial	PACIFIC ST	2	2	0.0	<50	<50	<50
10128	Local	VIA BUENA VISTA	2	2	0.0	<50	<50	<50
10129	Other Freeways or Expressways	STATE HWY 1	78	78	0.3	180	380	810
10130	Other Freeways or Expressways	STATE HWY 1	78	78	0.4	180	390	840
10595	Local	YORK RD	53	56	2.5	<50	<50	<50
10596	Local	YORK RD	2	2	0.0	<50	<50	<50
10599	Local	LOWER RAGSDALE DR	2	2	0.0	<50	<50	<50
10604	Local	WILSON RD	53	56	2.5	<50	<50	<50
10605	Local	UPPER RAGSDALE DR	66	67	0.5	<50	60	140
10606	Local	HARRIS CT	2	2	0.0	<50	<50	<50
10611	Local	UPPER RAGSDALE DR	60	63	3.2	<50	<50	80
10612	Local	RAGSDALE DR	66	67	0.5	<50	60	140
10613	Local	SAN VITO CIR	2	2	0.0	<50	<50	<50
10614	Local	RAMONA AVE	2	2	0.0	<50	<50	<50
10615	Local	RAMONA AVE	2	2	0.0	<50	<50	<50
10626	Local	BARNET SEGAL DR	2	2	0.0	<50	<50	<50
10628	Local	DON DAHVEE LN	47	47	0.3	<50	<50	<50
10629	Major Collector	EL DORADO ST	44	44	0.1	<50	<50	<50
10630	Major Collector	ELDORADO ST	47	47	0.2	<50	<50	<50
10631	Local	IRIS CANYON RD	2	2	0.0	<50	<50	<50
10632	Local	IRIS CANYON RD	47	47	0.3	<50	<50	<50
10633	Local	FISHNET RD	2	2	0.0	<50	<50	<50
10634	Local	GLENWOOD CIR	2	2	0.0	<50	<50	<50
10636	Principal Arterial	LIGHTHOUSE AVE	74	74	0.3	100	210	460
10637	Minor Arterial	PACIFIC ST	58	59	1.3	<50	<50	<50
10638	Minor Arterial	PACIFIC ST	56	59	2.4	<50	<50	<50
10639	Minor Arterial	PACIFIC ST	53	54	1.0	<50	<50	<50
10640	Local	SCOTT ST	2	2	0.0	<50	<50	<50
10642	Local	VAN BUREN ST	2	2	0.0	<50	<50	<50
10644	Local	SCOTT ST	2	2	0.0	<50	<50	<50
10645	Local	OLIVER ST	2	2	0.0	<50	<50	<50

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future: Distance from Centerline to DNL 70 dB	Future: Distance from Centerline to DNL 65 dB	Future: Distance from Centerline to DNL 60 dB
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)				
10646	Local	OLIVIER ST	2	2	0.0	<50	<50	<50
10648	Major Collector	MUNICIPAL WHARF 2	60	60	0.4	<50	<50	50
10649	Local	ALVARADO ST	54	55	0.6	<50	<50	<50
10650	Minor Arterial	PVT BOLIO RD	67	67	0.6	<50	70	160
10651	Minor Arterial	PVT BOLIO RD	67	68	0.3	<50	70	160
10654	Local	REESIDE AVE	2	2	0.0	<50	<50	<50
10655	Local	LAINES ST	2	41	38.6	<50	<50	<50
10658	Minor Arterial	PVT BOLIO RD	66	66	0.0	<50	60	130
10659	Minor Arterial	PVT BOLIO RD	66	66	0.0	<50	60	130
10660	Minor Arterial	PVT BOLIO RD	67	67	0.1	<50	70	150
10666	Minor Arterial	PVT BOLIO RD	60	60	0.1	<50	<50	50
10667	Local	CORPORAL EWING RD	2	50	47.4	<50	<50	<50
10668	Local	SEENO ST	2	2	0.0	<50	<50	<50
10669	Minor Arterial	DECATUR ST	56	56	0.7	<50	<50	<50
10670	Local	EWING RD	2	2	0.0	<50	<50	<50
10672	Local	CORPORAL EWING RD	2	54	51.6	<50	<50	<50
10675	Major Collector	STILLWELL AVE	52	54	1.9	<50	<50	<50
10676	Major Collector	STILLWELL AVE	52	54	1.9	<50	<50	<50
10679	Minor Arterial	PVT BOLIO RD	65	65	-0.1	<50	50	100
10681	Local	PLUMMER ST	2	2	0.0	<50	<50	<50
10682	Local	PLUMMER ST	2	2	0.0	<50	<50	<50
10684	Local	KIT CARSON RD	2	2	0.0	<50	<50	<50
10685	Local	KIT CARSON RD	2	2	0.0	<50	<50	<50
10686	Local	FITCH AVE	2	2	0.0	<50	<50	<50
10688	Local	FITCH AVE	2	2	0.0	<50	<50	<50
10689	Local	KIT CARSON RD	2	2	0.0	<50	<50	<50
10690	Local	ARMY ST	2	2	0.0	<50	<50	<50
10691	Local	SGT BEANS RD	2	2	0.0	<50	<50	<50
10692	Local	SERGEANT BEANS RD	2	2	0.0	<50	<50	<50
10693	Local	SERGEANT BEANS RD	2	2	0.0	<50	<50	<50
10694	Local	ARMY ST	2	2	0.0	<50	<50	<50
10695	Local	CORPORAL EVANS RD	2	2	0.0	<50	<50	<50
10697	Local	CORPORAL EVANS RD	2	2	0.0	<50	<50	<50
10699	Local	SERRA AVE	2	2	0.0	<50	<50	<50
10703	Local	NEWTON ST	2	2	0.0	<50	<50	<50
10705	Local	MCCLELLAN AVE	2	2	0.0	<50	<50	<50
10706	Minor Arterial	PVT BOLIO RD	55	55	-0.1	<50	<50	<50
10708	Local	PRESIDIO OF MONTEREY	2	2	0.0	<50	<50	<50
10713	Local	CORPORAL EVANS RD	2	2	0.0	<50	<50	<50
10715	Local	KIT CARSON RD	2	2	0.0	<50	<50	<50
10716	Local	LAWTON RD	2	2	0.0	<50	<50	<50
10717	Local	LAWTON RD	2	2	0.0	<50	<50	<50
10718	Local	LAWTON RD	2	2	0.0	<50	<50	<50
10722	Local	CYPRESS ST	2	2	0.0	<50	<50	<50
10724	Local	HARRISON ST	54	54	0.2	<50	<50	<50
10725	Local	ROOSEVELT ST	2	54	51.7	<50	<50	<50
10726	Local	ROOSEVELT ST	2	56	53.6	<50	<50	<50
10727	Local	FRANKLIN ST	57	59	1.7	<50	<50	<50
10729	Major Collector	FRANKLIN ST	59	60	1.0	<50	<50	50
10730	Local	CEDAR ST	54	60	5.3	<50	<50	50
10731	Local	CEDAR ST	2	2	0.0	<50	<50	<50
10732	Local	CEDAR ST	54	54	0.2	<50	<50	<50
10741	Minor Arterial	W FRANKLIN ST	59	60	1.2	<50	<50	50
10742	Major Collector	JEFFERSON ST	62	64	1.7	<50	<50	90
10743	Principal Arterial	W FRANKLIN ST	64	65	0.6	<50	50	100
10744	Major Collector	JEFFERSON ST	55	57	1.9	<50	<50	<50
10745	Minor Arterial	PACIFIC ST	58	59	1.4	<50	<50	<50
10746	Minor Arterial	PACIFIC ST	57	58	1.6	<50	<50	<50
10747	Minor Arterial	PACIFIC ST	58	56	-1.2	<50	<50	<50
10748	Local	DUTRA ST	2	2	0.0	<50	<50	<50
10750	Local	ELK RUN	2	2	0.0	<50	<50	<50
10751	Local	CARIBOU CT	2	2	0.0	<50	<50	<50
10752	Major Collector	FIGUEROA ST	55	55	0.6	<50	<50	<50
10755	Major Collector	EL DORADO ST	54	51	-2.1	<50	<50	<50
10756	Local	CASS ST	55	56	0.4	<50	<50	<50
10757	Local	CARMELO ST	2	2	0.0	<50	<50	<50
10758	Local	CASS ST	55	56	0.4	<50	<50	<50
10760	Major Collector	SOLEDAD DR	56	57	0.3	<50	<50	<50
10761	Major Collector	SOLEDAD DR	56	57	0.3	<50	<50	<50

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10762	Local	VIA DESCANSO	2	2	0.0	<50	<50	<50
10765	Principal Arterial	MUNRAS AVE	67	67	0.2	<50	70	160
10767	Local	CIELO VISTA DR	2	2	0.0	<50	<50	<50
10770	Local	PACIFIC VISTA PL	2	2	0.0	<50	<50	<50
10772	Local	VIA ZARAGOSA	53	55	1.3	<50	<50	<50
10774	Local	MONTEREY CIR	2	2	0.0	<50	<50	<50
10776	Local	ALAMEDA ST	2	2	0.0	<50	<50	<50
10777	Local	ALAMEDA ST	2	2	0.0	<50	<50	<50
10778	Major Collector	MARTIN ST	54	51	-2.4	<50	<50	<50
10779	Major Collector	SAN BERNABE DR	54	56	2.6	<50	<50	<50
10782	Local	VIA PARAISO	2	2	0.0	<50	<50	<50
10783	Local	VIA PARAISO	2	2	0.0	<50	<50	<50
10784	Major Collector	VIA GAYUBA	50	50	0.6	<50	<50	<50
10785	Local	COLTON ST	2	2	0.0	<50	<50	<50
10786	Local	COLTON ST	2	2	0.0	<50	<50	<50
10787	Local	VIA PARAISO	2	2	0.0	<50	<50	<50
10788	Major Collector	VIA GAYUBA	54	54	0.5	<50	<50	<50
10789	Major Collector	VIA GAYUBA	53	54	0.5	<50	<50	<50
10790	Local	VIA DEL PINAR	2	2	0.0	<50	<50	<50
10791	Local	VIA DEL REY	2	2	0.0	<50	<50	<50
10792	Local	VIA DEL REY	2	2	0.0	<50	<50	<50
10794	Local	VIA CHIQUITA	2	2	0.0	<50	<50	<50
10795	Local	EL CALLEJONE	2	2	0.0	<50	<50	<50
10797	Local	HERRMANN DR	2	2	0.0	<50	<50	<50
10799	Local	HERRMANN DR	2	2	0.0	<50	<50	<50
10801	Local	VIA DEL REY	2	2	0.0	<50	<50	<50
10802	Local	EL CAMINITO DEL NORTE	2	2	0.0	<50	<50	<50
10803	Local	EL CAMINITO DEL NORTE	2	2	0.0	<50	<50	<50
10804	Local	HERRMANN DR	2	2	0.0	<50	<50	<50
10819	Local	MONROE ST	52	53	0.7	<50	<50	<50
10822	Local	PEBBLE ST	2	2	0.0	<50	<50	<50
10823	Local	MADISON ST	2	2	0.0	<50	<50	<50
10824	Local	EL CAMINITO DEL SUR	2	2	0.0	<50	<50	<50
10825	Local	MANZANITA ST	2	2	0.0	<50	<50	<50
10826	Local	TODA VIS	2	2	0.0	<50	<50	<50
10828	Major Collector	MAR VISTA DR	51	54	2.5	<50	<50	<50
10829	Local	SHADY LN	2	2	0.0	<50	<50	<50
10831	Major Collector	MAR VISTA DR	49	49	0.3	<50	<50	<50
10834	Local	VIA DEL PINAR	2	2	0.0	<50	<50	<50
10836	Major Collector	MAR VISTA DR	52	54	2.2	<50	<50	<50
10839	Local	MACARTHUR RD	2	2	0.0	<50	<50	<50
10848	Local	WYNDEMERE WAY	2	2	0.0	<50	<50	<50
10849	Local	TOYON DR	2	2	0.0	<50	<50	<50
10850	Local	TOYON DR	2	2	0.0	<50	<50	<50
10851	Local	VIA GAYUBA	49	50	0.7	<50	<50	<50
10855	Local	PEBBLE ST	2	2	0.0	<50	<50	<50
10864	Local	LINE ST	2	2	0.0	<50	<50	<50
10865	Local	LINE ST	2	2	0.0	<50	<50	<50
10874	Minor Arterial	FOAM ST	2	2	0.0	<50	<50	<50
10875	Local	IRVING AVE	40	42	1.2	<50	<50	<50
10876	Local	WAVE ST	2	2	0.0	<50	<50	<50
10882	Major Collector	CANNERY ROW	58	58	0.5	<50	<50	<50
10883	Major Collector	DAVID AVE	60	61	0.5	<50	<50	60
10884	Minor Arterial	DAVID AVE	60	61	0.5	<50	<50	60
10885	Local	CANNERY ROW	55	55	0.3	<50	<50	<50
10887	Major Collector	JEFFERSON ST	53	53	0.4	<50	<50	<50
10888	Local	JOHNSON AVE	2	2	0.0	<50	<50	<50
12673	Major Collector	SKYLINE DR	2	2	0.0	<50	<50	<50
12674	Major Collector	SKYLINE DR	45	45	0.4	<50	<50	<50
12675	Major Collector	SKYLINE DR	45	45	0.4	<50	<50	<50
12676	Local	SKYLINE DR	44	44	0.4	<50	<50	<50
12677	Local	SKYLINE DR	41	42	0.3	<50	<50	<50
12678	Major Collector	SKYLINE DR	2	2	0.0	<50	<50	<50
12679	Major Collector	SKYLINE DR	54	55	1.6	<50	<50	<50
12680	Major Collector	SKYLINE DR	53	55	2.0	<50	<50	<50
12681	Local	SKYLINE DR	41	42	0.3	<50	<50	<50
12720	Principal Arterial	SALINAS HWY	72	73	0.6	80	170	370
12721	Principal Arterial	SALINAS HWY	73	74	1.2	90	190	410
12722	Principal Arterial	SALINAS HWY	75	76	0.9	120	270	570

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12724	Principal Arterial	SALINAS HWY	77	78	0.3	160	340	740
12768	Principal Arterial	SALINAS HWY	75	76	0.8	130	280	600
12770	Principal Arterial	SALINAS HWY	75	76	0.9	120	260	570
13516	Local	ALLEY	2	2	0.0	<50	<50	<50
13527	Local	ALLEN DR	2	2	0.0	<50	<50	<50
13528	Local	BERGIN DR	2	2	0.0	<50	<50	<50
13530	Local	BERGIN DR	2	2	0.0	<50	<50	<50
13531	Local	RICKETTS RD	2	2	0.0	<50	<50	<50
13532	Local	BERGIN DR	2	2	0.0	<50	<50	<50
13533	Local	BERGIN DR	2	2	0.0	<50	<50	<50
13534	Local	LEIDIG RD	2	2	0.0	<50	<50	<50
13535	Local	HALSEY DR	2	2	0.0	<50	<50	<50
13537	Local	FARRAGUT RD	2	2	0.0	<50	<50	<50
13539	Local	FECHTELER DR	2	2	0.0	<50	<50	<50
13540	Local	MOREELL CIR	2	2	0.0	<50	<50	<50
13541	Local	SPRUANCE RD	2	2	0.0	<50	<50	<50
13542	Local	SPRUANCE RD	2	2	0.0	<50	<50	<50
13543	Local	SPRUANCE RD	2	2	0.0	<50	<50	<50
13546	Local	SHUBRICK RD	2	2	0.0	<50	<50	<50
13547	Local	SHUBRICK RD	2	2	0.0	<50	<50	<50
13548	Local	MERVINE ST	2	2	0.0	<50	<50	<50
13549	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13552	Local	SHUBRICK RD	2	2	0.0	<50	<50	<50
13553	Local	MERVINE ST	2	2	0.0	<50	<50	<50
13554	Local	SHUBRICK RD	2	2	0.0	<50	<50	<50
13556	Local	MICHELSON RD	2	2	0.0	<50	<50	<50
13559	Local	SPRUANCE RD	2	2	0.0	<50	<50	<50
13561	Local	SHUBRICK RD	2	2	0.0	<50	<50	<50
13562	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13563	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13564	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13565	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13566	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13567	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13568	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13569	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13570	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13571	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13572	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13573	Local	DEAKIN CIR	2	2	0.0	<50	<50	<50
13574	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13576	Local	LEAHY RD	2	2	0.0	<50	<50	<50
13578	Local	FARRAGUT RD	2	2	0.0	<50	<50	<50
13579	Local	BERGIN DR	2	2	0.0	<50	<50	<50
13580	Local	MALLOWAY RD	2	2	0.0	<50	<50	<50
13591	Major Collector	SYLVAN RD	2	43	40.6	<50	<50	<50
13592	Major Collector	SYLVAN RD	2	51	48.6	<50	<50	<50
13644	Minor Arterial	FREMONT ST	68	69	0.7	<50	90	200
13645	Minor Arterial	FREMONT ST	68	68	0.6	<50	80	180
13646	Minor Arterial	FREMONT ST	68	68	0.6	<50	80	180
13647	Minor Arterial	N FREMONT ST	68	68	0.6	<50	80	180
13648	Minor Arterial	FREMONT ST	61	63	2.1	<50	<50	80
13649	Minor Arterial	FREMONT ST	58	62	3.3	<50	<50	60
13650	Principal Arterial	FREMONT ST	71	72	0.5	60	140	300
13651	Minor Arterial	FREMONT ST	58	61	3.4	<50	<50	60
13652	Principal Arterial	FREMONT ST	72	72	0.6	70	150	330
13653	Principal Arterial	FREMONT ST	73	73	0.3	80	170	360
13654	Principal Arterial	FREMONT ST	73	73	0.4	80	180	390
13655	Minor Arterial	FREMONT ST	68	68	0.5	<50	80	180
13656	Principal Arterial	DEL MONTE AVE	70	71	1.5	60	130	280
13657	Principal Arterial	DEL MONTE AVE	73	74	1.0	90	190	400
13658	Principal Arterial	DEL MONTE AVE	73	74	1.0	90	190	400
13659	Principal Arterial	DEL MONTE AVE	60	62	1.8	<50	<50	70
13660	Principal Arterial	DEL MONTE AVE	60	61	1.4	<50	<50	60
13661	Principal Arterial	DEL MONTE AVE	64	65	0.9	<50	50	100
13662	Principal Arterial	DEL MONTE AVE	73	74	0.7	90	190	400
13663	Principal Arterial	DEL MONTE AVE	74	74	0.7	100	210	460
13664	Principal Arterial	DEL MONTE AVE	73	74	0.8	90	190	400
13665	Principal Arterial	DEL MONTE AVE	73	74	0.9	90	190	410



ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future:	Future:	Future:
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Distance from Centerline to DNL 70 dB	Distance from Centerline to DNL 65 dB	Distance from Centerline to DNL 60 dB
13666	Principal Arterial	DEL MONTE AVE	73	74	0.9	90	190	410
13667	Principal Arterial	DEL MONTE AVE	73	73	0.6	80	180	380
13668	Principal Arterial	DEL MONTE AVE	73	73	0.6	80	180	380
13669	Principal Arterial	DEL MONTE AVE	73	73	0.6	80	180	380
13670	Principal Arterial	DEL MONTE AVE	73	74	0.6	90	200	430
13671	Principal Arterial	DEL MONTE AVE	71	72	1.2	70	140	310
13672	Principal Arterial	DEL MONTE AVE	74	74	0.6	100	210	450
13673	Principal Arterial	DEL MONTE AVE	61	62	1.4	<50	<50	70
13674	Minor Arterial	DEL MONTE AVE	2	2	0.0	<50	<50	<50
13678	Major Collector	JOSSELYN CANYON RD	54	54	0.3	<50	<50	<50
13679	Major Collector	JOSSELYN CANYON RD	54	54	0.3	<50	<50	<50
13682	Major Collector	JOSSELYN CANYON RD	52	53	0.7	<50	<50	<50
13684	Local	OLD GOLF COURSE RD	48	48	0.4	<50	<50	<50
13705	Major Collector	AGUAJITO RD	50	55	5.7	<50	<50	<50
13706	Major Collector	AGUAJITO RD	49	52	3.7	<50	<50	<50
13707	Major Collector	AGUAJITO RD	2	54	52.0	<50	<50	<50
13713	Major Collector	AGUAJITO RD	62	62	0.6	<50	<50	70
13715	Local	AGUAJITO RD	62	62	0.6	<50	<50	70
14409	Other Freeways or Expressways	STATE HWY 1	78	79	0.6	200	420	910
14410	Other Freeways or Expressways	STATE HWY 1	78	78	-0.2	170	360	770
14567	Minor Arterial	SAND DUNES DR	59	55	-3.4	<50	<50	<50
14568	Ramp	RAMP	62	63	0.7	<50	<50	70
14569	Minor Arterial	CANYON DEL REY BLVD	67	68	0.6	<50	80	160
14576	Ramp	RAMP	63	63	0.1	<50	<50	80
14577	Other Freeways or Expressways	STATE HWY 1	78	79	0.4	190	410	890
14579	Principal Arterial	DEL MONTE AVE	70	71	1.5	60	130	280
14580	Local	ROBERTS AVE	2	2	0.0	<50	<50	<50
14581	Major Collector	ENGLISH AVE	52	56	4.5	<50	<50	<50
14583	Other Freeways or Expressways	STATE HWY 1	79	79	0.0	190	400	860
14584	Other Freeways or Expressways	STATE HWY 1	78	78	0.2	180	390	850
14586	Ramp	RAMP	48	49	0.8	<50	<50	<50
14587	Other Freeways or Expressways	STATE HWY 1	78	78	0.0	180	380	810
14588	Other Freeways or Expressways	STATE HWY 1	78	78	-0.1	180	380	820
14589	Ramp	RAMP	67	60	-7.4	<50	<50	50
14591	Principal Arterial	DEL MONTE AVE	71	72	1.2	70	140	310
14592	Ramp	RAMP	58	58	0.3	<50	<50	<50
14593	Local	DEL MONTE AVE	55	54	-0.7	<50	<50	<50
14612	Local	BRUCE LN	2	2	0.0	<50	<50	<50
14613	Local	LITTLENESS AVE	2	2	0.0	<50	<50	<50
14614	Local	STUART AVE	2	2	0.0	<50	<50	<50
14617	Major Collector	CASANOVA AVE	2	2	0.0	<50	<50	<50
14618	Local	MELWAY CIR	2	2	0.0	<50	<50	<50
14619	Major Collector	CASANOVA AVE	2	2	0.0	<50	<50	<50
14656	Local	OHARE AVE	2	2	0.0	<50	<50	<50
14657	Local	RAMONA AVE	2	2	0.0	<50	<50	<50
14706	Local	BEACH WAY	2	2	0.0	<50	<50	<50
14707	Local	BEACH WAY	2	2	0.0	<50	<50	<50
14708	Local	DUNECREST AVE	2	2	0.0	<50	<50	<50
14710	Local	BEACH WAY	2	2	0.0	<50	<50	<50
14711	Local	SURF WAY	2	2	0.0	<50	<50	<50
14712	Local	SEA FOAM AVE	2	2	0.0	<50	<50	<50
14713	Local	SURF WAY	2	2	0.0	<50	<50	<50
14714	Local	SPRAY AVE	2	2	0.0	<50	<50	<50
14715	Local	SURF WAY	2	2	0.0	<50	<50	<50
14716	Local	DUNECREST AVE	2	2	0.0	<50	<50	<50
14717	Local	DUNECREST AVE	2	2	0.0	<50	<50	<50
14719	Local	BEACH WAY	2	2	0.0	<50	<50	<50
14720	Local	SALINAS HWY	2	2	0.0	<50	<50	<50
14721	Local	MONTASALAS DR	2	2	0.0	<50	<50	<50
14723	Local	ELK RUN	2	2	0.0	<50	<50	<50
14729	Major Collector	MONHOLLAN RD	2	54	51.9	<50	<50	<50
14733	Principal Arterial	FREMONT ST	71	72	0.5	60	140	300
14734	Principal Arterial	ABREGO ST	68	68	0.3	<50	80	180
14735	Minor Arterial	ABREGO ST	61	61	0.1	<50	<50	60
14736	Minor Arterial	MUNRAS AVE	64	65	0.6	<50	50	100
14737	Minor Arterial	MUNRAS AVE	58	58	-0.2	<50	<50	<50
14738	Minor Arterial	FREMONT ST	2	2	0.0	<50	<50	<50
14739	Minor Arterial	FREMONT ST	60	61	1.4	<50	<50	60
14740	Minor Arterial	FREMONT ST	60	61	1.4	<50	<50	60

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future:	Future:	Future:
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Distance from Centerline to DNL 70 dB	Distance from Centerline to DNL 65 dB	Distance from Centerline to DNL 60 dB
14741	Major Collector	POLK ST	53	54	0.5	<50	<50	<50
14742	Local	HARTNELL ST	56	57	0.7	<50	<50	<50
14743	Local	HARTNELL ST	59	60	1.0	<50	<50	50
14744	Local	CLL PRINCIPAL	46	47	0.6	<50	<50	<50
14745	Local	CLL PRINCIPAL	59	60	0.9	<50	<50	50
14746	Major Collector	JEFFERSON ST	57	59	2.1	<50	<50	<50
14747	Local	POLK ST	45	51	5.6	<50	<50	<50
14748	Local	ALVARADO ST	2	53	50.7	<50	<50	<50
14749	Local	KING ST	2	2	0.0	<50	<50	<50
14750	Local	PIERCE ST	2	2	0.0	<50	<50	<50
14751	Local	VAN BUREN ST	2	2	0.0	<50	<50	<50
14753	Major Collector	MADISON ST	55	56	0.9	<50	<50	<50
14754	Local	VAN BUREN ST	2	2	0.0	<50	<50	<50
14755	Major Collector	MADISON ST	50	51	0.8	<50	<50	<50
14756	Minor Arterial	PACIFIC ST	54	55	0.7	<50	<50	<50
14757	Minor Arterial	PACIFIC ST	54	56	2.2	<50	<50	<50
14758	Major Collector	MADISON ST	54	54	0.5	<50	<50	<50
14759	Local	MADISON ST	50	51	0.9	<50	<50	<50
14761	Local	HERRMANN DR	44	44	0.4	<50	<50	<50
14762	Local	MADISON ST	52	53	0.8	<50	<50	<50
14763	Local	MADISON ST	47	47	0.5	<50	<50	<50
14764	Minor Arterial	MUNRAS AVE	62	63	0.8	<50	<50	80
14765	Local	WEBSTER ST	55	55	0.4	<50	<50	<50
14766	Local	WEBSTER ST	43	46	3.4	<50	<50	<50
14767	Minor Arterial	MUNRAS AVE	62	64	1.9	<50	<50	90
14768	Minor Arterial	MUNRAS AVE	61	62	1.0	<50	<50	70
14769	Local	TYLER ST	58	58	0.0	<50	<50	<50
14770	Major Collector	PEARL ST	50	54	3.3	<50	<50	<50
14771	Local	TYLER ST	57	56	-0.5	<50	<50	<50
14772	Local	BONIFACIO PL	2	2	0.0	<50	<50	<50
14773	Local	BONIFACIO PL	2	2	0.0	<50	<50	<50
14774	Local	TYLER ST	60	61	0.4	<50	<50	60
14775	Major Collector	PEARL ST	47	51	3.7	<50	<50	<50
14776	Local	CORTES ST	54	55	0.2	<50	<50	<50
14777	Local	VIA MIRADA	2	2	0.0	<50	<50	<50
14778	Local	FISHNET RD	2	2	0.0	<50	<50	<50
14779	Local	VIA MIRADA	2	2	0.0	<50	<50	<50
14781	Local	IRIS CANYON RD	2	2	0.0	<50	<50	<50
14783	Local	VIA LAVANDERA	2	2	0.0	<50	<50	<50
14784	Major Collector	CAM AGUAJITO	59	58	-0.6	<50	<50	<50
14785	Major Collector	CAM AGUAJITO	61	60	-0.9	<50	<50	50
14786	Principal Arterial	FREMONT ST	73	73	0.4	80	180	390
14787	Major Collector	MARK THOMAS DR	64	66	1.8	<50	60	130
14788	Major Collector	AGUAJITO RD	62	62	0.6	<50	<50	70
14790	Local	10TH ST	2	2	0.0	<50	<50	<50
14791	Local	8TH ST	2	2	0.0	<50	<50	<50
14792	Local	10TH ST	2	2	0.0	<50	<50	<50
14793	Local	VIA LAVANDERA	2	2	0.0	<50	<50	<50
14794	Ramp	RAMP	60	58	-2.0	<50	<50	<50
14795	Ramp	RAMP	70	70	-0.1	50	100	220
14796	Major Collector	CAM AGUAJITO	67	68	0.9	<50	80	170
14797	Major Collector	CAM AGUAJITO	67	68	1.3	<50	80	170
14798	Major Collector	AGUAJITO RD	65	65	0.4	<50	50	110
14799	Other Freeways or Expressways	STATE HWY 1	78	78	0.0	170	370	800
14800	Local	10TH ST	2	2	0.0	<50	<50	<50
14801	Local	10TH ST	2	2	0.0	<50	<50	<50
14802	Local	OCEAN AVE	2	2	0.0	<50	<50	<50
14803	Ramp	RAMP	61	61	0.2	<50	<50	60
14804	Ramp	RAMP	60	61	0.7	<50	<50	60
14805	Other Freeways or Expressways	STATE HWY 1	78	78	-0.3	170	360	780
14806	Ramp	SALINAS HWY	69	69	0.1	<50	90	200
14807	Ramp	RAMP	60	61	1.8	<50	<50	60
14808	Ramp	RAMP	56	60	3.8	<50	<50	50
14809	Ramp	RAMP	51	53	1.9	<50	<50	<50
14811	Local	SHIRL PAT WAY	2	2	0.0	<50	<50	<50
14812	Local	SURF WAY	2	2	0.0	<50	<50	<50
14813	Local	MONTECITO AVE	2	2	0.0	<50	<50	<50
14814	Local	MONTECITO AVE	2	2	0.0	<50	<50	<50
14815	Local	PALO VERDE AVE	2	2	0.0	<50	<50	<50

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14816	Local	PALO VERDE AVE	2	2	0.0	<50	<50	<50
14818	Local	ENCINA AVE	2	2	0.0	<50	<50	<50
14820	Local	MCNEAR ST	2	2	0.0	<50	<50	<50
14822	Local	ENCINA AVE	2	62	59.5	<50	<50	60
14823	Local	DEL ROBLES AVE	2	2	0.0	<50	<50	<50
14824	Local	PALO VERDE AVE	2	2	0.0	<50	<50	<50
14825	Local	PALO VERDE AVE	2	2	0.0	<50	<50	<50
14826	Local	PALO VERDE AVE	2	2	0.0	<50	<50	<50
14827	Local	PORTOLA AVE	2	2	0.0	<50	<50	<50
14828	Local	GARDEN AVE	2	62	59.5	<50	<50	60
14829	Local	DEL ROBLES AVE	2	2	0.0	<50	<50	<50
14830	Major Collector	CASA VERDE AVE	69	69	-0.3	<50	90	190
15228	Principal Arterial	SALINAS HWY	76	76	-0.3	120	260	550
35417	Other Freeways or Expressways	STATE HWY 1	78	78	-0.1	170	370	790
35718	Local	CHOMP ENTRANCE	2	48	45.5	<50	<50	<50
35719	Principal Arterial	MUNRAS AVE	67	68	0.6	<50	80	160
35720	Local	DEL MONTE CENTER	59	59	0.4	<50	<50	<50
36081	Major Collector	DAVID AVE	58	58	0.5	<50	<50	<50
36084	Local	CANNERY ROW	2	2	0.0	<50	<50	<50
36088	Local	CANNERY ROW	2	2	0.0	<50	<50	<50
36090	Local	REESIDE AVE	60	59	-0.6	<50	<50	<50
36094	Local	CANNERY ROW	2	2	0.0	<50	<50	<50
36119	Ramp	RAMP	67	60	-7.4	<50	<50	50
36123	Principal Arterial	DEL MONTE AVE	71	72	1.1	70	160	340
36128	Local	PRESCOTT AVE	52	53	1.2	<50	<50	<50
36130	Major Collector	CANNERY ROW	58	58	0.5	<50	<50	<50
36133	Local	HOFFMAN AVE	2	2	0.0	<50	<50	<50
36136	Local	WAVE ST	44	44	0.8	<50	<50	<50
36137	Local	DRAKE AVE	59	58	-0.4	<50	<50	<50
36148	Local	ROBERTS AVE	2	2	0.0	<50	<50	<50
36152	Local	OLIVIER ST	2	2	0.0	<50	<50	<50
36157	Local	CASA VERDE AVE	2	2	0.0	<50	<50	<50
36209	Minor Arterial	PACIFIC ST	2	2	0.0	<50	<50	<50
36698	Local	SCENIC DR	2	2	0.0	<50	<50	<50
36702	Local	SHEPHERDS KNOLL RD	2	2	0.0	<50	<50	<50
36706	Ramp	RAMP	65	66	0.6	<50	60	120
36708	Local	TOYON DR	45	46	0.4	<50	<50	<50
36711	Local	EL CAMINO	2	2	0.0	<50	<50	<50
36715	Minor Arterial	MADISON ST	2	2	0.0	<50	<50	<50
36717	Local	WATSON ST	47	46	-0.4	<50	<50	<50
36719	Minor Arterial	VAN BUREN ST	2	44	42.2	<50	<50	<50
36737	Major Collector	TAYLOR ST	59	60	1.2	<50	<50	50
36743	Local	ALICE ST	43	43	0.4	<50	<50	<50
36997	Local	LOWER RAGSDALE DR	2	2	0.0	<50	<50	<50
40568	Principal Arterial	SALINAS HWY	75	76	0.5	120	270	570
41228	Local	HARRIS CT	2	2	0.0	<50	<50	<50
41229	Local	THOMAS OWENS WAY	2	2	0.0	<50	<50	<50
41230	Local	UPPER RAGSDALE DR	60	63	3.2	<50	<50	80
41231	Local	JUSTIN CT	2	2	0.0	<50	<50	<50
41232	Local	LOWER RAGSDALE DR	2	2	0.0	<50	<50	<50
41233	Local	MANDEVILLE CT	2	2	0.0	<50	<50	<50
41235	Local	S BOUNDARY RD	2	2	0.0	<50	<50	<50
41303	Local	ALLEN DR	2	2	0.0	<50	<50	<50
41304	Local	FARRAGUT RD	2	2	0.0	<50	<50	<50
41311	Local	DON DAHVEE LN	47	47	0.3	<50	<50	<50
41314	Principal Arterial	MUNRAS AVE	67	68	0.3	<50	70	160
41315	Local	DEL MONTE CENTER	56	57	0.6	<50	<50	<50
41316	Minor Arterial	PACIFIC ST	54	56	1.6	<50	<50	<50
41317	Local	VIRGIN AVE	2	2	0.0	<50	<50	<50
41364	Local	ROBERTS AVE	2	2	0.0	<50	<50	<50
41365	Local	ROBERTS AVE	2	2	0.0	<50	<50	<50
41370	Major Collector	PEARL ST	48	58	10.1	<50	<50	<50
41373	Major Collector	PEARL ST	41	53	11.6	<50	<50	<50
41378	Principal Arterial	LIGHTHOUSE AVE	74	74	0.3	100	210	460
41535	Local	PARK RD	2	2	0.0	<50	<50	<50
41536	Local	RYAN RANCH RD	2	2	0.0	<50	<50	<50
41551	Principal Arterial	LIGHTHOUSE AVE	74	74	0.3	100	210	460
41555	Local	VAN BUREN ST	2	2	0.0	<50	<50	<50
41557	Principal Arterial	LIGHTHOUSE AVE	67	68	0.6	<50	80	170

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41558	Major Collector	DAVID AVE	58	58	0.5	<50	<50	<50
41559	Local	MADISON ST	2	2	0.0	<50	<50	<50
41561	Minor Arterial	PACIFIC ST	54	56	2.2	<50	<50	<50
41563	Minor Arterial	MADISON ST	55	57	1.5	<50	<50	<50
41564	Local	DUTRA ST	2	2	0.0	<50	<50	<50
41566	Minor Arterial	VAN BUREN ST	2	2	0.0	<50	<50	<50
41568	Local	LARKIN ST	2	2	0.0	<50	<50	<50
41570	Local	MADISON ST	52	53	0.8	<50	<50	<50
41572	Local	EL CAMINITO	2	2	0.0	<50	<50	<50
41586	Local	VIEJO RD	2	2	0.0	<50	<50	<50
45175	Ramp	RAMP	66	67	0.9	<50	70	150
45176	Ramp	RAMP	66	67	0.8	<50	70	150
45177	Local	DELA VINA AVE	2	2	0.0	<50	<50	<50
45178	Local	WEST RD	2	41	39.1	<50	<50	<50
45179	Local	FARRAGUT RD	2	2	0.0	<50	<50	<50
45180	Local	LEIDIG RD	2	2	0.0	<50	<50	<50
45181	Local	SPRUANCE RD	2	2	0.0	<50	<50	<50
45182	Local	MOREELL CIR	2	2	0.0	<50	<50	<50
45183	Other Freeways or Expressways	STATE HWY 1	78	78	-0.3	170	360	780
45184	Other Freeways or Expressways	STATE HWY 1	78	78	0.0	170	370	800
45194	Local	TIDE AVE	2	2	0.0	<50	<50	<50
45195	Local	WAINWRIGHT ST	51	56	4.3	<50	<50	<50
45196	Local	CANNERY ROW	60	59	-0.6	<50	<50	<50
45201	Major Collector	RIFLE RANGE RD	59	60	1.3	<50	<50	50
45202	Major Collector	EL DORADO ST	54	51	-2.1	<50	<50	<50
45203	Local	VIA JOAQUIN	2	2	0.0	<50	<50	<50
45204	Local	LOMITA ST	2	2	0.0	<50	<50	<50
45205	Minor Arterial	PACIFIC ST	56	55	-0.8	<50	<50	<50
45206	Local	MASON RD	2	2	0.0	<50	<50	<50
45207	Local	RIFLE RANGE RD	2	2	0.0	<50	<50	<50
45208	Local	LAWTON RD	2	2	0.0	<50	<50	<50
45209	Local	LAWTON RD	2	2	0.0	<50	<50	<50
45210	Local	LAWTON RD	2	2	0.0	<50	<50	<50
45211	Major Collector	STILLWELL AVE	52	54	1.9	<50	<50	<50
45212	Local	PVT BOLIO RD	49	48	-1.1	<50	<50	<50
45213	Local	HUCKLEBERRY DR	2	2	0.0	<50	<50	<50
45214	Local	CRAMDEN DR	2	2	0.0	<50	<50	<50
45229	Local	ENGLISH AVE	2	2	0.0	<50	<50	<50
45231	Local	CASANOVA AVE	2	2	0.0	<50	<50	<50
45232	Local	HALSEY AVE	2	2	0.0	<50	<50	<50
45371	Local	FAWN LN	2	2	0.0	<50	<50	<50
47100	Local	GLENWOOD CIR	2	2	0.0	<50	<50	<50
47101	Local	COSTANOAN DR	2	2	0.0	<50	<50	<50
47102	Local	COSTANOAN DR	2	2	0.0	<50	<50	<50
47103	Local	COSTANOAN DR	2	2	0.0	<50	<50	<50
47104	Local	COSTANOAN DR	2	2	0.0	<50	<50	<50
47105	Local	PATTON AVE	2	2	0.0	<50	<50	<50
47106	Major Collector	FREMONT WAY	2	2	0.0	<50	<50	<50
47107	Local	STILLWELL AVE	52	54	1.9	<50	<50	<50
47108	Major Collector	FITCH AVE	2	2	0.0	<50	<50	<50
47109	Local	LAWTON RD	2	2	0.0	<50	<50	<50
47110	Local	LEWIS RD	2	2	0.0	<50	<50	<50
47111	Local	CORPORAL CHURCH	2	2	0.0	<50	<50	<50
47112	Local	PVT BOLIO RD	49	48	-1.1	<50	<50	<50
47113	Local	ARCHER ST	50	50	0.0	<50	<50	<50
47114	Local	DICKMAN AVE	50	50	0.0	<50	<50	<50
47115	Local	SPENCER ST	2	2	0.0	<50	<50	<50
47131	Local	OAK ST	2	2	0.0	<50	<50	<50
47132	Local	BOWEN ST	2	2	0.0	<50	<50	<50
47138	Local	DEVISADERO ST	2	2	0.0	<50	<50	<50
47140	Local	MASON RD	2	2	0.0	<50	<50	<50
47141	Major Collector	WRIFLE RANGE RD	59	60	1.3	<50	<50	50
47142	Local	MASON RD	2	2	0.0	<50	<50	<50
47143	Local	PVT BOLIO RD	43	43	-0.1	<50	<50	<50
47144	Local	PVT BOLIO RD	2	43	41.0	<50	<50	<50
47145	Local	PVT BOLIO RD	43	43	-0.1	<50	<50	<50
47146	Local	PVT BOLIO RD	46	2	-43.9	<50	<50	<50
47147	Local	PVT BOLIO RD	46	2	-43.9	<50	<50	<50
47148	Local	PVT BOLIO RD	2	40	38.4	<50	<50	<50

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future:	Future:	Future:
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Distance from Centerline to DNL 70 dB	Distance from Centerline to DNL 65 dB	Distance from Centerline to DNL 60 dB
47149	Local	PVT BOLO RD	2	2	0.0	<50	<50	<50
47152	Local	ARTILLERY ST	2	54	51.6	<50	<50	<50
47153	Local	VIA CHIQUITA	2	2	0.0	<50	<50	<50
47154	Local	DRY CREEK RD	2	2	0.0	<50	<50	<50
47159	Local	MONTALAS DR	2	2	0.0	<50	<50	<50
47160	Local	SKY PARK WAY	2	2	0.0	<50	<50	<50
47166	Local	VIRGIN AVE	2	2	0.0	<50	<50	<50
47178	Local	OXNER ST	2	2	0.0	<50	<50	<50
47216	Local	LEAHY RD	2	2	0.0	<50	<50	<50
47217	Local	SPRUANCE RD	2	2	0.0	<50	<50	<50
47218	Local	CASTRO RD	2	2	0.0	<50	<50	<50
47219	Major Collector	AGUAJITO RD	55	56	1.4	<50	<50	<50
47282	Local	DEL MONTE CENTER	2	2	0.0	<50	<50	<50
47283	Local	DEL MONTE CENTER	2	2	0.0	<50	<50	<50
47284	Local	DEL MONTE CENTER	2	2	0.0	<50	<50	<50
47285	Local	DEL MONTE CENTER	2	2	0.0	<50	<50	<50
47286	Local	DEL MONTE CENTER	2	2	0.0	<50	<50	<50
47287	Local	DEL MONTE CENTER	56	57	0.6	<50	<50	<50
47288	Local	DEL MONTE CENTER	2	2	0.0	<50	<50	<50
47289	Local	DEL MONTE CENTER	2	2	0.0	<50	<50	<50
47290	Local	DEL MONTE CENTER	2	2	0.0	<50	<50	<50
47291	Local	DEL MONTE CENTER	56	57	0.6	<50	<50	<50
			2	2	0.0	<50	<50	<50
47293	Local	CHOMP ENTRANCE	2	49	47.0	<50	<50	<50
47294	Local	CHOMP ENTRANCE	2	2	0.0	<50	<50	<50
47295	Local	CHOMP ENTRANCE	2	2	0.0	<50	<50	<50
47381	Local	PALO VERDE AVE	2	2	0.0	<50	<50	<50
47382	Local	HELVIC AVE	2	2	0.0	<50	<50	<50
47383	Local	PALO VERDE AVE	2	2	0.0	<50	<50	<50
47384	Local	PALO VERDE AVE	2	2	0.0	<50	<50	<50
47452	Local	CHURCH ST	42	50	8.0	<50	<50	<50
47453	Local	IRIS CANYON RD	2	2	0.0	<50	<50	<50
47454	Local	REVERE RD	2	2	0.0	<50	<50	<50
47456	Local	NORTH ST	2	2	0.0	<50	<50	<50
47457	Local	MONTECITO AVE	2	2	0.0	<50	<50	<50
47529	Local	PATTON AVE	2	2	0.0	<50	<50	<50
47530	Local	PATTON AVE	2	2	0.0	<50	<50	<50
47531	Local	FORT MERVINE PL	2	2	0.0	<50	<50	<50
47532	Local	KIT CARSON RD	2	2	0.0	<50	<50	<50
48459	Local	Edinburgh Avenue	2	2	0.0	<50	<50	<50
48530	Local	CHOMP ENTRANCE		49	49.1	<50	<50	<50
48532	Ramp	RAMP		66	66.3	<50	60	130
48535	Ramp	RAMP		64	63.6	<50	<50	90
48918	Principal Arterial	MUNRAS AVE		55	54.8	<50	<50	<50
48919	Principal Arterial	MUNRAS AVE		55	55.2	<50	<50	<50
48920	Principal Arterial	MUNRAS AVE		61	61.2	<50	<50	60
48921	Principal Arterial	MUNRAS AVE		59	58.9	<50	<50	<50
48922	Principal Arterial	MUNRAS AVE		61	60.7	<50	<50	60
48923	Principal Arterial	MUNRAS AVE		64	64.0	<50	<50	90
48924	Principal Arterial	MUNRAS AVE		53	52.9	<50	<50	<50
48925	Principal Arterial	MUNRAS AVE		53	52.8	<50	<50	<50
48928	Principal Arterial	MUNRAS AVE		65	65.0	<50	50	110
48929	Principal Arterial	MUNRAS AVE		64	63.6	<50	<50	90
48930	Principal Arterial	MUNRAS AVE		64	63.7	<50	<50	90
48931	Principal Arterial	MUNRAS AVE		64	64.3	<50	<50	100
48932	Principal Arterial	MUNRAS AVE		61	61.3	<50	<50	60
48933	Principal Arterial	MUNRAS AVE		63	63.1	<50	<50	80
48934	Principal Arterial	MUNRAS AVE		59	59.5	<50	<50	50
48935	Principal Arterial	MUNRAS AVE		65	65.3	<50	50	110
48936	Principal Arterial	MUNRAS AVE		65	65.1	<50	50	110
48937	Principal Arterial	MUNRAS AVE		65	65.3	<50	50	110
48938	Principal Arterial	MUNRAS AVE		65	65.3	<50	50	110
48939	Principal Arterial	MUNRAS AVE		65	65.3	<50	50	110
48940	Principal Arterial	MUNRAS AVE		55	54.9	<50	<50	<50
48941	Principal Arterial	MUNRAS AVE		64	64.1	<50	<50	90

Definition:

ID	Type	Roadway Segment	Calculated		Projected Increase (dB)	Future:	Future:	Future:
			Existing Noise Level at 50' (DNL in dB)	Calculated Future Noise Level at 50' (DNL in dB)		Distance from Centerline to DNL 70 dB	Distance from Centerline to DNL 65 dB	Distance from Centerline to DNL 60 dB

DNL (Day-Night Average Sound Level) – A descriptor for a 24-hour A-weighted average noise level. DNL accounts for the increased acoustical sensitivity of people to noise during the nighttime hours. DNL penalizes sound levels by 10 dB during the hours from 10 PM to 7 AM. For practical purposes, the DNL and CNEL are usually interchangeable. DNL is sometimes written as Ldn.

**Comments/Assumptions**

- 1) Traffic data were provided by the traffic engineer data received 19 October 2023
- 2) Peak-hour traffic volume is estimated to be 10% of daily traffic volume
- 3) DNL is estimated to be equal to the peak hour Leq
- 4) Traffic noise estimates are within 2 dB of measured noise level in the City, an acceptable margin



**APPENDIX**

**PUBLIC SERVICE PROVIDER  
CORRESPONDENCE**

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# TABLE OF CONTENTS

Monterey Fire Department (MFD) Correspondence ..... G-1

Monterey Police Department (MPD) Correspondence..... G-3

Monterey Peninsula Unified School District (MPUSD) Correspondence..... G-5



Claire Villegas &lt;claire@dyyettandbhatia.com&gt;

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**Monterey 2031 - Draft EIR - Request for Information by August 4**

4 messages

**Christy Sabdo** <sabdo@monterey.org>

Thu, Jul 20, 2023 at 11:14 AM

To: Gaudenz Panholzer &lt;panholzer@monterey.org&gt;

Cc: Carmyn Priewe &lt;priewe@monterey.org&gt;, Levi Hill &lt;lhill@monterey.org&gt;, Andrew Hill &lt;andrew@dyyettandbhatia.com&gt;, Claire Villegas &lt;claire@dyyettandbhatia.com&gt;

Hi Gaudenz,

As you know, the City's General Plan is being updated. Our consultant, Dyett & Bhatia, has prepared a letter requesting information for the Draft EIR. They are requesting this information by August 4th. Please let me know if you have any questions.

Thank you,  
Christy

**Christy Sabdo, AICP**Associate Planner | [City of Monterey](#)

570 Pacific Street | Monterey, CA 93940

831-646-3885 (main) | 831-646-3758 (direct) |

[sabdo@monterey.org](mailto:sabdo@monterey.org) | [have your say](#) | [city website](#)**THE CITY OF  
MONTEREY**[www.monterey.org](http://www.monterey.org)

---

 **Chief Panholzer\_Monterey 2031 Info Request.pdf**  
257K**Gaudenz Panholzer** <panholzer@monterey.org>

Wed, Jul 26, 2023 at 3:16 PM

To: Christy Sabdo &lt;sabdo@monterey.org&gt;

Cc: Carmyn Priewe &lt;priewe@monterey.org&gt;, Levi Hill &lt;lhill@monterey.org&gt;, Andrew Hill &lt;andrew@dyyettandbhatia.com&gt;, Claire Villegas &lt;claire@dyyettandbhatia.com&gt;

Christy-

My responses to the questions requesting information are as follows:

- **Does the Department currently have plans to increase staffing or equipment levels over the next 8 years? If yes, please provide details.**
  - We currently do not have plans to increase staffing or equipment levels over the next eight years. We are evaluating our staffing situation in eastern Monterey relative to a contract with the Monterey Peninsula Airport District and what a better long-term solution may be. See third bullet point for details.

- **Does the Department currently have plans to expand existing facilities or construct new ones? If yes, please provide details.**
  - We are currently evaluating our facility in downtown Monterey (Fire Station 11 and collocated Fire Administration, Monterey Police headquarters, and Emergency Operations Center). If carried through as presently envisioned, the project will result in a new facility at the same location that will be better suited to meet the needs of the Fire and Police Departments. It will not result in increased staffing for Fire.
- **Would the Department need to add staff or equipment to accommodate growth projected to result from buildout of the Monterey 2031 Project?**
  - Our existing resources would likely be adequate to handle the added workload for any infill development. Depending on the extent of the development in the eastern portion of the city (Fort Ord/Ryan Ranch area), we will need a dedicated city-owned fire station to serve that area. We presently serve that area through a station that is operated under a contract we have with the Monterey Airport District and it isn't well suited to provide increased services to that portion of Monterey. A new facility would not necessarily include increased staffing depending on how opening a station in that area impacts our contractual relationship with the Airport District.

Let me know if you need anything further.

-Gaudenz

Gaudenz Panholzer

*Fire Chief*

## **MONTEREY FIRE DEPARTMENT**

*"Committed to Exceed The Expectations Of Those We Serve"*

610 Pacific Street, Monterey, CA 93940

831.646.3900

[panholzer@monterey.org](mailto:panholzer@monterey.org)



*Proudly Serving Monterey, Pacific Grove, Carmel-by-the-Sea, Sand City,*

*Naval Postgraduate School, La Mesa Village, and Monterey Regional Airport*

---

**From:** Christy Sabdo <[sabdo@monterey.org](mailto:sabdo@monterey.org)>

**Sent:** Thursday, July 20, 2023 11:14

**To:** Gaudenz Panholzer <[panholzer@monterey.org](mailto:panholzer@monterey.org)>

**Cc:** Carmyn Priewe <[priewe@monterey.org](mailto:priewe@monterey.org)>; Levi Hill <[lhill@monterey.org](mailto:lhill@monterey.org)>; Andrew Hill <[andrew@dyettandbhatia.com](mailto:andrew@dyettandbhatia.com)>; Claire Villegas <[claire@dyettandbhatia.com](mailto:claire@dyettandbhatia.com)>

**Subject:** Monterey 2031 - Draft EIR - Request for Information by August 4

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**Andrew Hill** <[andrew@dyettandbhatia.com](mailto:andrew@dyettandbhatia.com)>

To: Claire Villegas <[claire@dyettandbhatia.com](mailto:claire@dyettandbhatia.com)>

Wed, Jul 26, 2023 at 4:20 PM

Please make sure to PDF these responses and save in the same folder with the service provider letters for future reference. Another one came in yesterday, which I believe you were also copied on.



Claire Villegas &lt;claire@dyettandbhatia.com&gt;

---

**Monterey 2031 General Plan Update - Information Requested by August 4th**

2 messages

**Christy Sabdo** <sabdo@monterey.org>

Thu, Jul 20, 2023 at 11:12 AM

To: David Hober &lt;hober@monterey.org&gt;

Cc: Levi Hill &lt;lhill@monterey.org&gt;, Andrew Hill &lt;andrew@dyettandbhatia.com&gt;, Claire Villegas &lt;claire@dyettandbhatia.com&gt;

Hi Chief Hober,

The City's General Plan is being updated and a draft Environmental Impact Report is being prepared. Please review the attached letter with a request for information by August 4, 2023. Please let me know if you have any questions.

Thank you!

Christy

**Christy Sabdo, AICP**Associate Planner | [City of Monterey](#)

570 Pacific Street | Monterey, CA 93940

831-646-3885 (main) | 831-646-3758 (direct) |

[sabdo@monterey.org](mailto:sabdo@monterey.org) | [have your say](#) | [city website](#)

THE CITY OF

**MONTEREY**[www.monterey.org](http://www.monterey.org)

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 **Chief Hober\_Monterey 2031 Info Request.pdf**  
257K**David Hober** <hober@monterey.org>

Wed, Jul 26, 2023 at 11:19 AM

To: Christy Sabdo &lt;sabdo@monterey.org&gt;

Cc: Levi Hill <lhill@monterey.org>, Andrew Hill <andrew@dyettandbhatia.com>, Claire Villegas <claire@dyettandbhatia.com>,  
Karen Faurot <faurot@monterey.org>, Mike Bruno <bruno@monterey.org>

Christy -

MPD Response:

## Information Requested

- Does the Department currently have plans to increase staffing or equipment levels? If yes, please provide details. - Yes, increase staffing from 53 to 60 officers and associated equipment to include 2 additional patrol vehicles in the next 5-10 years.
- Does the Department currently have plans to expand existing facilities or construct new ones? If yes, please provide details. - Yes, the MPD is currently working with the MFD on constructing a new public safety facility at the current location or acquiring a pre-existing facility in Monterey and converting it to a shared Public Safety facility. This would include the Monterey Police Department

Facility, the Monterey Fire Department Administrative Facility, Monterey Fire Station 11, an Emergency Operations Center, an additional resource building and parking for the co-located buildings. If this occurs at the current police and fire site the footprint would remain relatively similar, but there would be an increase in the total square footage of the current buildings (built in 1959) which would be demolished and new facilities constructed.

- Would the Department need to add staff or equipment to accommodate projected growth? - Yes, increase staffing from 53 to 60 officers and associated equipment to include 2 additional patrol vehicles in the next 5-10 years.

David J. Hober  
Chief Of Police  
Monterey Police Department  
831.646.3800

---

**From:** Christy Sabdo <[sabdo@monterey.org](mailto:sabdo@monterey.org)>

**Sent:** Thursday, July 20, 2023 11:12

**To:** David Hober <[hober@monterey.org](mailto:hober@monterey.org)>

**Cc:** Levi Hill <[lhill@monterey.org](mailto:lhill@monterey.org)>; Andrew Hill <[andrew@dyettandbhatia.com](mailto:andrew@dyettandbhatia.com)>; Claire Villegas <[claire@dyettandbhatia.com](mailto:claire@dyettandbhatia.com)>

**Subject:** Monterey 2031 General Plan Update - Information Requested by August 4th

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Claire Villegas &lt;claire@dyyettandbhatia.com&gt;

---

## Monterey 2031 General Plan Update - Draft EIR - Request for Information by August 4th

---

**Christy Sabdo** <sabdo@monterey.org>

Mon, Sep 25, 2023 at 10:22 AM

To: Andrew Hill &lt;andrew@dyyettandbhatia.com&gt;

Cc: Levi Hill &lt;lhill@monterey.org&gt;, Karen Chavez &lt;karen@dyyettandbhatia.com&gt;, Claire Villegas &lt;claire@dyyettandbhatia.com&gt;

Hi Andrew,

I received a response from MPUSD for the Draft EIR. Please see email responses below and two attachments.

Best,  
Christy

**Christy Sabdo, AICP**

Associate Planner | City of Monterey  
570 Pacific Street | Monterey, CA 93940  
831-646-3885 (main) | 831-646-3758 (direct) |  
[sabdo@monterey.org](mailto:sabdo@monterey.org) | [have your say](#) | [city website](#)

---

**From:** PK Diffenbaugh <pkdiffenbaugh@mpusd.k12.ca.us>**Sent:** Monday, September 25, 2023 9:04 AM**To:** Christy Sabdo <sabdo@monterey.org>**Subject:** Fwd: Monterey 2031 General Plan Update - Draft EIR - Request for Information by August 4th

Please see the below and attached.

PK,

I believe this info meets the needs of their request:

- Current enrollment, projected enrollment, and capacity of schools in the Monterey Peninsula Unified School District. **See attached enrollment projections through 2032.**
- Rates or factors used for the purpose of forecasting future enrollment (e.g. students/ new single-family residence or new multifamily housing unit).  
**Please see the attached document outlining the projection methodology.**
- Does the District currently have plans to increase staffing/equipment levels or to construct new facilities between 2023 and 2031? **Based on the current enrollment trends, MPUSD is**

experiencing a decline and we do not anticipate the necessity for increased staffing or construction.

- Would MPUSD need to construct new facilities or expand existing facilities in order to serve the City of Monterey in 2031, assuming the construction of 5,802 new homes as envisioned in the Housing Element?

Based on the construction of 5,802 new homes, MPUSD would need to expand existing facilities and potentially alter current lease agreements with private and/or charter schools in order to meet the projected increased enrollment.

---

Ryan Altemeyer  
Associate Superintendent of Business Services  
Monterey Peninsula Unified School District  
831-645-1269 - Office

On Thu, Jul 20, 2023 at 12:30 PM Ryan Altemeyer <[raltemeyer@mpusd.k12.ca.us](mailto:raltemeyer@mpusd.k12.ca.us)> wrote:

----- Forwarded message -----

From: **PK Diffenbaugh** <[pkdiffenbaugh@mpusd.k12.ca.us](mailto:pkdiffenbaugh@mpusd.k12.ca.us)>  
 Date: Thursday, July 20, 2023  
 Subject: Fwd: Monterey 2031 General Plan Update - Draft EIR - Request for Information by August 4th  
 To: Ryan Altemeyer <[raltemeyer@mpusd.k12.ca.us](mailto:raltemeyer@mpusd.k12.ca.us)>

Can you answer these questions for them.

----- Forwarded message -----

From: **Christy Sabdo** <[sabdo@monterey.org](mailto:sabdo@monterey.org)>  
 Date: Thu, Jul 20, 2023 at 11:20AM  
 Subject: Monterey 2031 General Plan Update - Draft EIR - Request for Information by August 4th  
 To: PK Diffenbaugh <[pkdiffenbaugh@mpusd.k12.ca.us](mailto:pkdiffenbaugh@mpusd.k12.ca.us)>

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[Quoted text hidden]

--  
Take care,

PK

PK Diffenbaugh  
(He/Him/His)  
Superintendent  
Monterey Peninsula Unified School District

--  
 \_\_\_\_\_<br><br>Ryan Altemeyer<br>Associate Superintendent of Business Services<br>Monterey Peninsula Unified School District<br>831-645-1269 - Office<br><br>

--

Take care,

PK

PK Diffenbaugh  
(He/Him/His)  
Superintendent  
Monterey Peninsula Unified School District

[**NOTICE:** This message originated outside of the City of Monterey mail system -- **DO NOT CLICK** on **links** or open **attachments** unless you are sure the content is safe.]

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## 2 attachments

 **MPUSD Enrollment Projections 2023.pdf**  
31K

 **FinalReportMntryPnnsI23CFeb16.pdf**  
626K



Grade	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
TK	183	196	209	210	209	202	195	189	197	195
K	529	535	541	544	541	525	507	489	510	505
1	566	546	552	554	551	534	516	498	519	514
2	632	576	558	560	568	550	531	511	532	525
3	620	626	579	562	571	565	544	524	542	536
4	594	628	635	586	574	570	561	540	554	547
5	604	589	625	628	593	571	565	555	562	556
6	584	572	561	592	617	577	555	549	562	553
7	586	566	560	549	569	590	553	535	548	547
8	578	585	569	559	553	568	588	552	548	551
9	689	756	772	751	726	706	735	748	731	694
10	825	720	782	793	767	729	707	735	779	739
11	820	839	737	794	805	767	727	705	764	785
12	815	827	848	744	801	809	770	730	719	771
Totals:	8944	8875	8838	8733	8751	8567	8350	8148	8361	8311
Capacity:	14523	14523	14523	14523	14523	14523	14523	14523	14523	14523
Open Seats:	5579	5648	5685	5790	5772	5956	6173	6375	6162	6212



# PowerSchool

Geovisual Analytics



## Annual Enrollment Projection Report

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# ANALYSIS OF ENROLLMENT PROJECTIONS

FALL 2023

PREPARED FOR:  
MONTEREY PENINSULA UNIFIED SCHOOL DISTRICT

PREPARED BY:



SUBMITTED: FEBRUARY 16, 2023

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# MONTEREY PENINSULA UNIFIED SCHOOL DISTRICT

## EXECUTIVE SUMMARY

### ENROLLMENT PROJECTIONS - FALL 2023

PowerSchool Predictive Enrollment Analytics is pleased to present this report of findings to the Board of Education and Executive Staff of Monterey Peninsula Unified School District. Both a Conservative and Moderate projection have been generated for the district. Assuming district revenue is generated on a per pupil basis, the Conservative projection is more suitable for budget planning purposes while the Moderate projection is more suitable for facilities planning purposes.

### KINDERGARTEN ENROLLMENT

In general, Kindergarten enrollment over the past four years has been decreasing. The data also show that the difference between the graduating cohort and the incoming cohort has been decreasing. Note that both studies project a relatively stable trend at the Kindergarten level.

### COHORT PATTERNS

A typical student cohort ages from grade to grade relatively unchanged from the previous year. Historically, 2 cohorts show more than a 5% annual change.

### NEW HOUSING DEVELOPMENT

Approximately 5,800 new residential units are projected to be occupied over the next 10 years. During that period, the annual impact in any given year, based on the Moderate Study, is estimated in peak years to be 621 students.

### DISTRICT-WIDE ENROLLMENT PROJECTION

Overall the projections forecast a decline across the 10-year period based upon the historical enrollment trends and any projected new residential development.

### MORE INFORMATION

A richer and more comprehensive review of both studies is contained in the Final Report accompanying this Executive Summary. A wealth of more detailed information and analysis regarding both studies is also quickly and easily accessible online.

Respectfully Prepared and Submitted by:

The Predictive Enrollment Analytics Team

February 16, 2023

# MONTEREY PENINSULA UNIFIED SCHOOL DISTRICT

## HISTORICAL ANALYSIS

### RECENT CHANGES IN ENROLLMENT

Familiarity with recent historical enrollment patterns and trends establishes the foundation for understanding projected enrollment. Percentages in the table below compare the current year enrollment to that of three years ago.

4 Year History Change	
Kindergarten	81%
Gr K-6	90%
Gr 7-8	87%
Gr 9-12	108%
District (K-12)	95%

FIGURE 1

### KINDERGARTEN IMPACT

Kindergarten enrollment is a significant driver of overall future district-wide enrollment. A trend at Kindergarten from year to year, or a trend in the difference between the district's graduating cohort in a given year and the Kindergarten cohort the subsequent year, will eventually be reflected in the total district enrollment count.

In general, Kindergarten enrollment over the past four years has been decreasing. The data in the table below also show that the difference between the graduating cohort and the incoming cohort has been decreasing.

[More details: Enrollment > Historical > District-Wide > History Years Enrollment]

	Percent Change of Previous Year		
	2020	2021	2022
Kindergarten	92%	98%	90%
Grade 12 to K	93%	84%	80%
Total K-12	96%	99%	100%

FIGURE 2

Transition K enrollment is forecast as a separate grade level. These projections include an expansion of TK from 3 months to 12 months starting in 2022 through 2025.

[All data in this report excludes Transition K unless specifically noted.]

### LIVE BIRTH TRENDS

Live birth trends have an impact in large geographies, and on long range projections. However, in smaller areas of study, such as a school district, population mobility is often a mitigating if not an overriding factor, thereby reducing the effectiveness of live births as a predictor of enrollment. Consequently, PowerSchool Predictive Enrollment Analytics has found that recent Kindergarten

enrollment trends by sub-geographies to be a better, more reliable predictor of future Kindergarten enrollment.

#### COHORT IMPACT

A typical student cohort ages from grade to grade relatively unchanged from the previous year. By contrast, the cohort matriculating from Kindergarten to Grade 1 is a common example of a cohort increase, typically attributable to students returning from a private school.

In the following table, cohort changes with more than a 2% variance from static are marked accordingly. Those with more than a 5% changed are marked as ‘Significant’.

Average Cohort Change Past Three Years			
Cohort	Percent	+/-	Significant
K > 1	97%	----	
1 > 2	96%	----	
2 > 3	95%	----	
3 > 4	97%	----	
4 > 5	96%	----	
5 > 6	92%	----	SSSS
6 > 7	95%	----	
7 > 8	100%		
8 > 9	125%	++++	SSSS
9 > 10	101%		
10 > 11	99%		
11 > 12	101%		

FIGURE 3

#### INCOMING OUT-OF-DISTRICT TRANSFER IMPACT

The number of students served from outside the district boundaries can impact enrollment. It is a factor over which the district may have some control. For the past two years, the number of out-of-district students served annually has been approximately 348, and has been increasing.

[More details: Enrollment > Historical > District-Wide > Out of District]

#### KEY VARIABLES IN PROJECTING DISTRICT ENROLLMENT

Both a Conservative and Moderate projection have been generated for the district. Assuming district revenue is generated on a per pupil basis, the Conservative projection is more suitable for budget planning purposes while the Moderate projection is more suitable for facilities planning purposes.

As a matter of standard practice, PowerSchool Predictive Enrollment Analytics does not typically include specialized schools or programs such as Home and Hospital Programs, Community Day Schools or Independent Study Programs in the Enrollment Projections. Our work is focused on projecting grade level enrollment for typical schools that are reported to the state.



The major variables that distinguish the Conservative projection from the Moderate are described in the table below.

Key Variables Controlling the Projections Algorithm	
Kindergarten Enrollment Change	Applies the lesser or greater of 3-4 year history trend in each studyblock to the appropriate study.
Cohort Change	Applies the lesser or greater of 3-4 year history trend in each studyblock to the appropriate study.
K Enrollment Change Cap	Restricts the effect of anomalous spikes in Kindergarten history
K Enrollment Change Floor	Restricts the effect of anomalous spikes in Kindergarten history
Incoming Out-of-District Transfers	For each grade level span, applies the lesser or greater of 1-2 year history to the lograde; ages through existing students.
Dwelling Units	Moderate study assumes developer's phasing calendar. Conservative study shifts the developer's calendar toward the out-years.
Student Generation Rates	Typical of recent history by product type.

FIGURE 4

## IMPACT OF PROJECTED NEW DWELLING UNITS

### PROJECTED OCCUPANCY

Approximately 5,800 new residential units are projected to be occupied over the next 10 years. The tables below show the mix of proposed units across the three dwelling unit types. The Moderate table summarizes the plans described by developers while the Conservative table estimates a more likely scenario based on anticipated market conditions. The most recent residential research was completed in September 2022 by Rebecca Noren-Matz.

[More details: Enrollment > Residential > District-Wide > Proposed Dwelling Units]

New Dwelling Units Projected to be Occupied by Year (Moderate)										
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Multi-family	97	680	620	376					494	
Attached	62	202	203	172	2	4			877	
Detached	270	357	357	357	209	100	100	100	101	
Totals:	429	1239	1180	905	211	104	100	100	1472	0

FIGURE 5

New Dwelling Units Projected to be Occupied by Year (Conservative)										
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Multi-family	74	567	550	364	218				395	99
Attached	50	172	163	152	104	4			702	175
Detached	198	315	285	285	257	167	103	80	81	81
Totals:	322	1054	998	801	579	171	103	80	1178	355

FIGURE 6

The graph below depicts visually the differences between the phasing projected in the Moderate and Conservative studies.

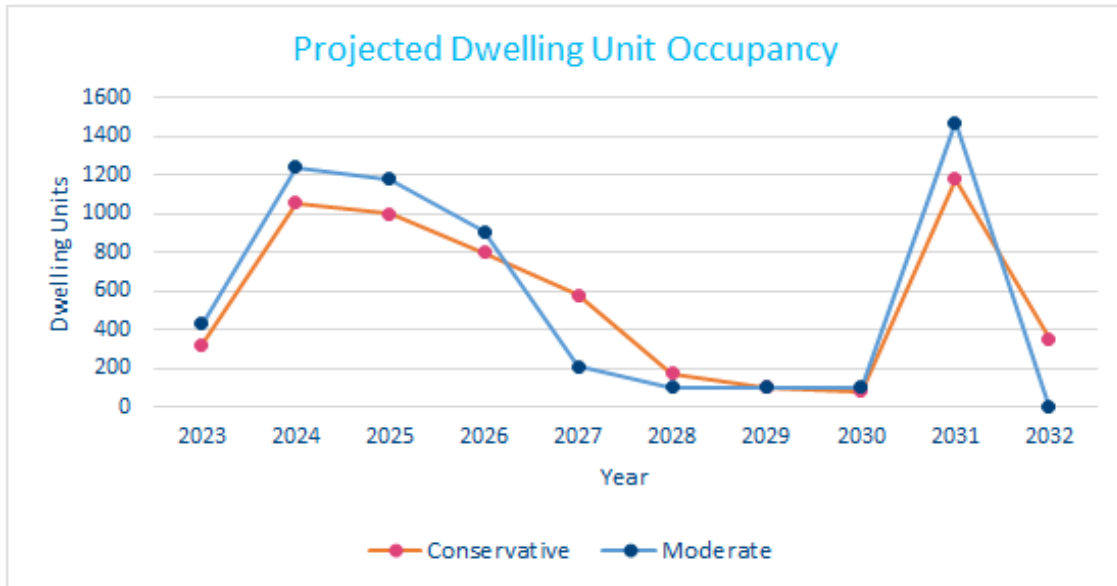


FIGURE 7

### STUDENTS GENERATED

Over the period of years during which these units will become occupied, the impact, based on the Moderate scenario, is shown in the table below. The “Annual” row projects the number of students new to the district from these units each year. The “Aggregate” row projects the accumulated increase in students served by the district through the year indicated and includes matriculation through and eventually out of the district for students introduced in previous years.

Students Generated by Residential Development (Moderate)										
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Aggregate		672	1161	1566	1724	1825	1947	2085	2706	2823
Annual	192	480	489	405	158	101	122	138	621	117

FIGURE 8

The table below reflects the students generated using the Conservative estimate of projected Dwelling Units.

Students Generated by Residential Development (Conservative)										
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Aggregate		556	959	1308	1581	1718	1833	1947	2436	2673
Annual	144	412	403	349	273	137	115	114	489	237

FIGURE 9

**STUDENT GENERATION RATES**

Moderate student generation rates are typical of students enrolled from existing developments of similar product type. Conservative student generation rates, if different, are designed to anticipate a diminution in family size.

[More details: [Enrollment > Residential > District-Wide > Student Generation Rates](#)]

A complete report regarding new residential development is available online in our platform under “Home > Administration and Tools > District Documents”. This report includes a map of proposed dwelling unit projects, the phasing by dwelling unit type in each project, students generated by new development by studyblock, student generation rates. Additional individual reports can be found online under “Enrollment > Residential”.

**PROJECTED ENROLLMENT CHANGES BY GRADE LEVEL**

The tables below display the five-year district-wide projections by grade level and allow a comparison to enrollment in the current year.

CONSERVATIVE 5 YEAR DISTRICT-WIDE PROJECTION BY GRADE LEVEL

Grade	2022	2023	2024	2025	2026	2027
TK	184	183	196	209	210	209
K	581	529	535	541	544	541
1	656	566	546	552	554	551
2	655	632	576	558	560	568
3	608	620	626	579	562	571
4	632	594	628	635	586	574
5	634	604	589	625	628	593
6	611	584	572	561	592	617
7	584	586	566	560	549	569
8	548	578	585	569	559	553
9	820	689	756	772	751	726
10	827	825	720	782	793	767
11	815	820	839	737	794	805
12	760	815	827	848	744	801
Subtotals:	8915	8625	8561	8528	8426	8445
Pct Chg:	0.5%	-3.3%	-0.7%	-0.4%	-1.2%	0.2%
SDC:	325	317	312	307	304	303
Totals:	9240	8942	8873	8835	8730	8748

FIGURE 10

MODERATE 5 YEAR DISTRICT-WIDE PROJECTION BY GRADE LEVEL

Grade	2022	2023	2024	2025	2026	2027
TK	184	191	208	226	231	226
K	581	552	569	586	598	587
1	656	577	577	595	606	593
2	655	644	600	602	612	609
3	608	632	651	615	613	613
4	632	607	655	675	634	618
5	634	614	612	662	676	634
6	611	590	589	592	634	659
7	584	596	582	587	588	611
8	548	584	601	591	591	588
9	820	701	779	802	786	756
10	827	835	742	816	832	793
11	815	830	861	770	837	835
12	760	825	848	880	786	844
Subtotals:	8915	8778	8874	8999	9024	8966
Pct Chg:	0.5%	-1.5%	1.1%	1.4%	0.3%	-0.6%
SDC:	325	322	323	324	326	324
Totals:	9240	9100	9197	9323	9350	9290

FIGURE 11

As the following graph illustrates, overall the projections forecast a decline across the 10-year period based upon the historical enrollment trends and any projected new residential development.

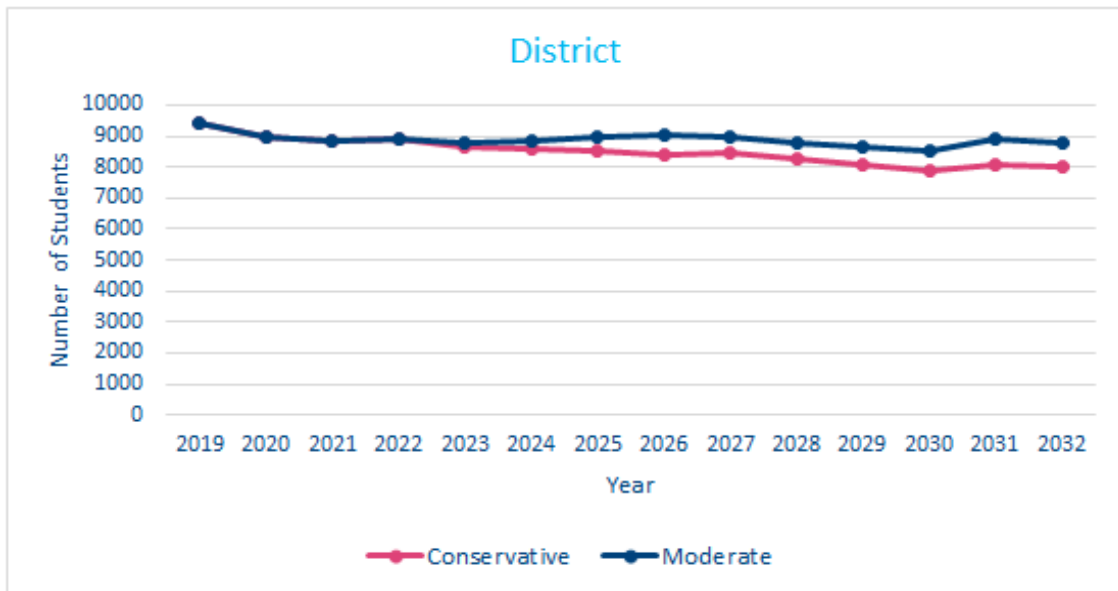


FIGURE 12

The tables below compare the Conservative and Moderate enrollment projections by key grade level groupings. Projected changes in enrollment at Kindergarten or lower grade level groupings will eventually impact total district enrollment.

5 YEAR ENROLLMENT TRENDS: MODERATE AND CONSERVATIVE COMPARED

Change by Level	Cnsv	Mod
<b>Kindergarten</b>	541	587
Change	93%	101%
<b>Gr K-6</b>	4015	4313
Change	92%	99%
<b>Gr 7-8</b>	1122	1199
Change	99%	106%
<b>Gr 9-12</b>	3099	3228
Change	96%	100%
<b>District (K-12)</b>	8236	8740
Change	94%	100%

FIGURE 13

Note that an averaging of both studies project a relatively stable trend at the Kindergarten level.

The table below compares the ten-year projections. In the 10-year future at Kindergarten, both studies, averaged together, project a decline.

**10 YEAR ENROLLMENT TRENDS: MODERATE AND CONSERVATIVE COMPARED**

Change by Level	Cnsv	Mod
<b>Kindergarten</b>	505	562
Change	87%	97%
<b>Gr K-6</b>	3736	4098
Change	85%	94%
<b>Gr 7-8</b>	1098	1192
Change	97%	105%
<b>Gr 9-12</b>	2989	3244
Change	93%	101%
<b>District (K-12)</b>	7823	8534
Change	90%	98%

FIGURE 14

The graphs below compare the Conservative and Moderate enrollment projections by key grade level groupings.

### ELEMENTARY SCHOOL LEVEL

The projected elementary school enrollment shows a significant decline.

[More details: Enrollment > Projections > Selected Schools > All Elementary Schools]

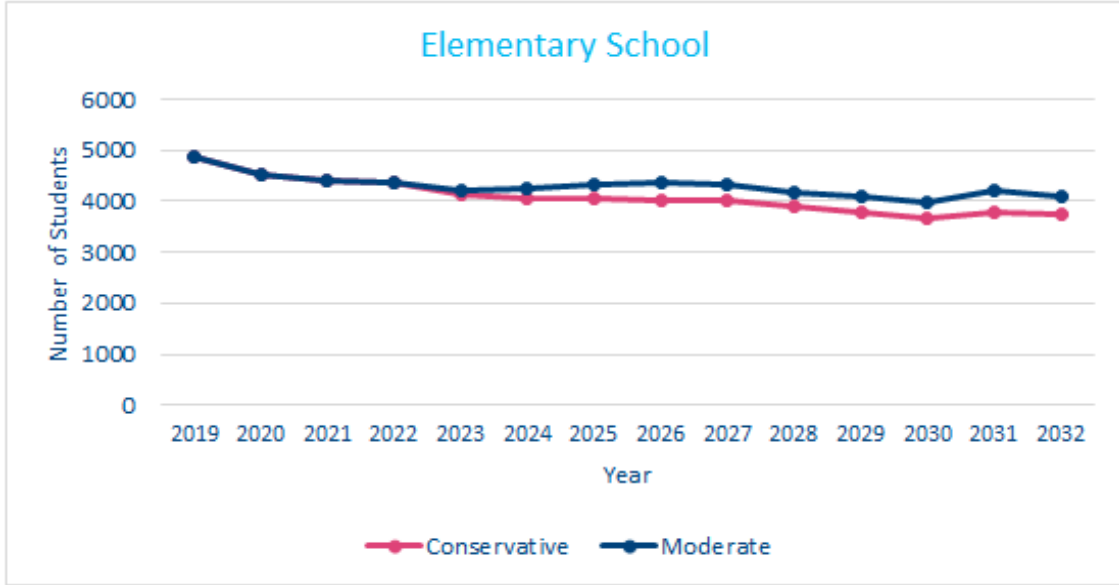


FIGURE 15

### MIDDLE SCHOOL LEVEL

The projected middle school enrollment shows a relatively stable trend.

[More details: Enrollment > Projections > Selected Schools > All Middle Schools]

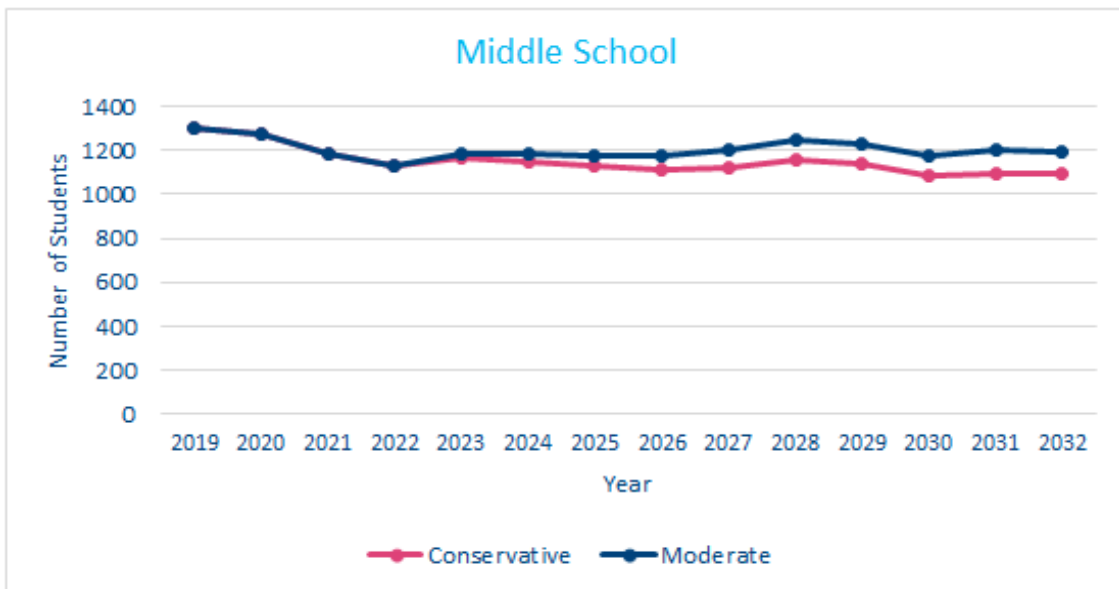


FIGURE 16

## HIGH SCHOOL LEVEL

The projected high school enrollment shows a slight decline.

[More details: Enrollment > Projections > Selected Schools > All High Schools]

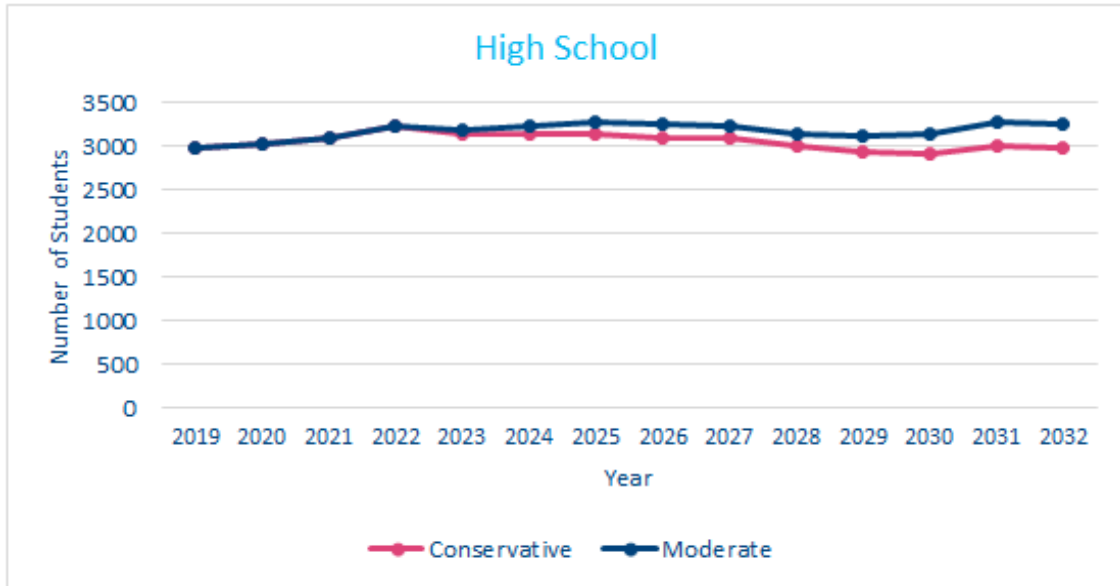


FIGURE 17



## SUMMARY OF DISTRICT PROJECTIONS BY YEAR

The complete district-wide projection table for each study is available online. Corresponding sets of individual School Projections are available online as well.

The tables below present a more detailed annual view of projected changes by grade level clusters for both projections. The “Pct Prev Yr” row represents the percent of the previous year’s enrollment in each grade cluster that is projected in the subsequent year. The “5-Yr Change” row represents the percent change projected over the enrollment five years prior.

### CONSERVATIVE PROJECTION

Change by Level	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
<b>Kindergarten</b>	581	529	535	541	544	541	525	507	489	510	505
Pct Prev Yr	90%	91%	101%	101%	101%	99%	97%	97%	96%	104%	99%
5-Yr Change						93%					93%
<b>Gr K-6</b>	4377	4129	4072	4051	4026	4015	3892	3779	3666	3781	3736
Pct Prev Yr	100%	94%	99%	99%	99%	100%	97%	97%	97%	103%	99%
5-Yr Change						92%					93%
<b>Gr 7-8</b>	1132	1164	1151	1129	1108	1122	1158	1141	1087	1096	1098
Pct Prev Yr	96%	103%	99%	98%	98%	101%	103%	99%	95%	101%	100%
5-Yr Change						99%					98%
<b>Gr 9-12</b>	3222	3149	3142	3139	3082	3099	3011	2939	2918	2993	2989
Pct Prev Yr	104%	98%	100%	100%	98%	101%	97%	98%	99%	103%	100%
5-Yr Change						96%					96%
<b>District (K-12)</b>	8731	8442	8365	8319	8216	8236	8061	7859	7671	7870	7823
Pct Prev Yr	101%	97%	99%	99%	99%	100%	98%	97%	98%	103%	99%
5-Yr Change						94%					95%

*NOTE: The gray column is the most recent history year.*

FIGURE 18

MODERATE PROJECTION

Change by Level	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
<b>Kindergarten</b>	581	552	569	586	598	587	571	556	542	579	562
Pct Prev Yr	90%	95%	103%	103%	102%	98%	97%	97%	97%	107%	97%
5-Yr Change						101%					96%
<b>Gr K-6</b>	4377	4216	4253	4327	4373	4313	4183	4084	3993	4202	4098
Pct Prev Yr	100%	96%	101%	102%	101%	99%	97%	98%	98%	105%	98%
5-Yr Change						99%					95%
<b>Gr 7-8</b>	1132	1180	1183	1178	1179	1199	1247	1233	1179	1199	1192
Pct Prev Yr	96%	104%	100%	100%	100%	102%	104%	99%	96%	102%	99%
5-Yr Change						106%					99%
<b>Gr 9-12</b>	3222	3191	3230	3268	3241	3228	3143	3105	3129	3267	3244
Pct Prev Yr	104%	99%	101%	101%	99%	100%	97%	99%	101%	104%	99%
5-Yr Change						100%					100%
<b>District (K-12)</b>	8731	8587	8666	8773	8793	8740	8573	8422	8301	8668	8534
Pct Prev Yr	101%	98%	101%	101%	100%	99%	98%	98%	99%	104%	98%
5-Yr Change						100%					98%

NOTE: The gray column is the most recent history year.

FIGURE 19

## GRADE LEVEL PROFILE COMPARISON

Another view of grade level enrollment can be seen in the chart below. The current grade level enrollment profile is compared with the projected grade level profile in the five and ten-year future.

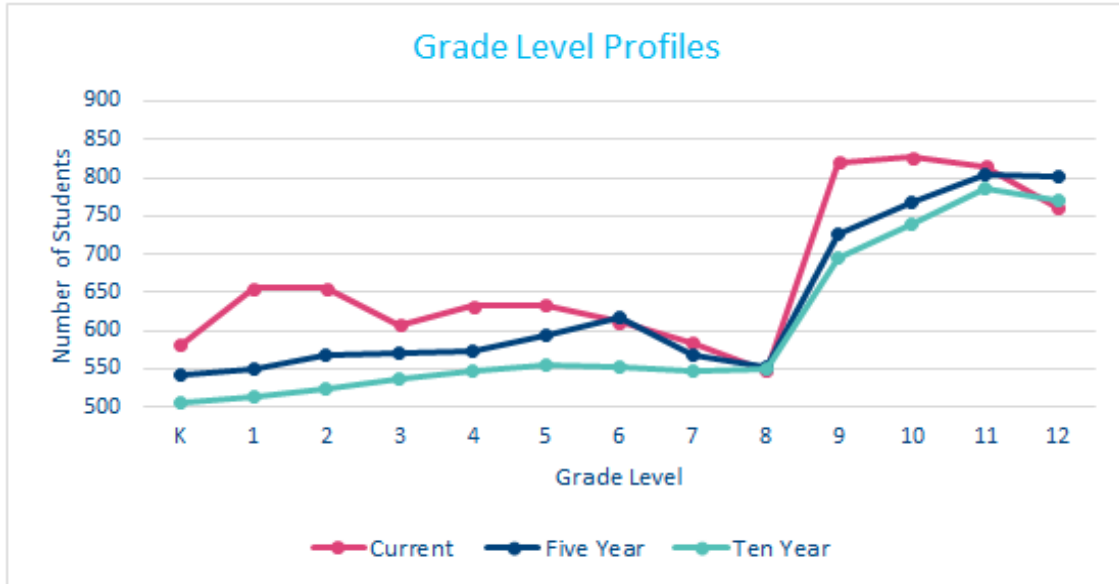


FIGURE 20

## PROJECTING SCHOOL ENROLLMENT

School projections are primarily a function of the proportion of district students who enroll at a given school, modified by intra-district transfers within a given school level that may occur after initial enrollment, and augmented by inter-district transfer students.

### SCHOOL DRAW IMPACT

A draw rate is the percentage of students who enroll in a grade level in a school from a specified geographic area. Open enrollment among district schools is projected using this concept. Except for changes in school boundaries or other changes in policy, historical draw rates from a given geographic area to a specific school (including out-of-district students) are assumed in the projections.

### INTRA-DISTRICT TRANSFERS

Transfers within the district are incorporated into the projections to anticipate the movement of students from one district school to another within the same level, e.g., transfer from a neighborhood school to a special school. Recent historical transfer patterns are typically assumed in the projections.

[More details: Enrollment > Historical > All Schools > Open Enrollment]

### INTER-DISTRICT TRANSFERS

Transfers into the district by out-of-district students, sometimes referred to as ‘permit students’, are an integral part of the district and school projections. Recent historical transfer patterns are typically assumed in the projections.

[More details: Enrollment > Historical > District-Wide > Out of District]

## INDIVIDUAL SCHOOL PROJECTION TABLES

The complete set of individual school projection tables for each study is available online.

[More details: Enrollment > Projections > All Schools > Projections]

## MySCHOOLLOCATOR

MySchoolLocator is a web-based service accessible to PowerSchool Predictive Enrollment Analytics clients. This service allows online users to enter a residential address and find out which district schools are assigned to serve them. Public access to MySchoolLocator is via a unique URL on the District's web site. The URL for integration into your district's website can be requested via Support at any time. Additionally, requests can be submitted to apply custom messages for various geographies which will then be seen by those using MySchoolLocator.

## IMPACT OF THE PROJECTIONS ON SCHOOL CAPACITY

Facility challenges, if any, may exist if projected numbers exceed the current school capacity data. These challenges may also manifest differently in a Moderate or Conservative projection. The Moderate projection shows 3 schools with a potential capacity challenge.

[More details: Enrollment > Projections > All Schools > Over Capacity]

The table below lists up to five schools that are projected to experience the most change in enrollment in the 5-year future based on the Conservative projection.

[More details: Enrollment > Projections > All Schools > Ten Percent Change]

School	5-Yr Pct Change	10-Yr Pct Change
Walter Colton MS	-100%	-100%
Central Coast HS	-44%	-51%
Marshall ES	34%	41%
Ord Terrace ES	-29%	-31%
Dual Language Academy	-25%	-32%

FIGURE 21

## IMPACT OF SDC STUDENTS ON CAPACITY

Relative to the impact of SDC students on school capacity, note that SDC students are not included in the grade level counts, but are included in the capacity calculation as taking up one seat each.

## ANALYZING/STUDYING/REVIEWING THE ENROLLMENT PROJECTIONS

The projections of district and school enrollment are based on a complex mix of historical data, the projection of recent trends, and specific assumptions regarding the future. We strongly encourage our clients to actively engage with the data with the aim of better understanding, further refining, and using the results to inform decisions about to be made. We believe increased effectiveness for both the district and PowerSchool Predictive Enrollment Analytics comes with increased and welcome dialogue.

Graphs or tables may be copied from the PDF version of this document using the Snapshot Tool inside PDF Reader.

Please do not hesitate to contact PowerSchool Predictive Enrollment Analytics regarding any questions or suggestions that may arise regarding these studies.

Respectfully Prepared and Submitted by:

The PowerSchool Predictive Enrollment Analytics Team

February 16, 2023

## APPENDIX

### ASSUMPTIONS AND METHODOLOGY

All projections are based on assumptions, and when read or shared are best prefaced with the phrase, “Based on these assumptions...”, or “Based on these historical trends...”. Particularly for projections more than 5 years out, “Enrollment Trend” is a far more accurate descriptor.

Three major factors drive district-wide student enrollment projections. These include:

1. recent kindergarten enrollment trends,
2. changes in the grade level cohorts of students served as they age through, and
3. changes in the number of residential units within the district.

District-wide projections are disaggregated to school projections based on the historical patterns of:

1. the rates at which each school draws enrollment from various sections of the district, and
2. the pattern of transfers within the district at a given level from one school to another.

### DISTRICT PROJECTIONS

#### *Studyblocks*

For enrollment projections the district is divided into studyblocks. A studyblock is a custom unit of geography created by PowerSchool Predictive Enrollment Analytics for the purpose of generating reliable projections. They are generally based on elementary boundaries or some portion thereof. A studyblock serves as the basis for the analysis of students served by the district and by schools. The objective is to do analysis with a small enough geographic unit to sense small area changes but large enough to allow for reliable projection. Studyblocks typically encompass 500–1000 students.

#### *Kindergarten Enrollment*

The projected Kindergarten enrollment is a key variable in projecting K–12 enrollment. The base Kindergarten projection is determined by the trend of Kindergartners served in each studyblock in the previous 3 or 4 years. Depending on the circumstances, a growth trend in Kindergarten enrollment may be capped. Steep straight-line trends are mathematically moderated to avoid unrealistic results.

#### *School Capacities*

School capacities provided by the district are compared to projected enrollments. Districts are invited to calculate school capacities in a manner that best serves the enrollment projection environment and provide them to us via Support for entry into the platform.

A Special Day Class (SDC) student at the elementary level is calculated by default as requiring 1 seat. This value, at district option, may be changed to 3, on the assumption that a class of 10 SDC students will occupy a typical classroom.

#### *Students in the Projections*

Enrollment projections are limited to typical K–12 students. SDC students are projected as a stable percentage of the typical population unless all SDC students are mainstreamed. Excluded from the projections are students enrolled in Non-Public School (NPS), Adult High School, Home School, Adult Ed, Independent Study programs and other special schools.

#### *Attendance Boundaries*

Attendance boundaries are assumed to remain constant, unless otherwise noted by the district.

### *Closed Schools*

Opportunities for open enrollment (intra-district) are assumed to remain unchanged, unless otherwise noted by the district.

### *Inter-district Enrollment*

Students enrolled from other school districts are treated in aggregate in separate studyblocks. Students in Kindergarten and the initial grade at each level are projected only to the extent they exist in recent years. Students enrolled in other grade level cohorts are aged through to the highest grade at each level. These defaults may be modified at district request.

### *Cohort Percent Change*

Cohort percentage changes are calculated to assure sensitivity to perennial changes in students served by the district as they age from one grade level to the next. If every cohort were stable as it ages, the cohort percent change, from one grade to the next in each studyblock, would be calculated as 100%. For each studyblock, a cohort weighted average percent change over a defined number of years is calculated based on the change in the enrollment served as it ages from the previous grade level.

Average cohort percentages above 100% might, for example, reflect students returning from private schools. Cohort percentages below 100% might reflect dropouts.

Growth studyblocks are those showing unusually high increases in enrollment and/or cohort percent change in recent years—due, typically, to new housing development. Once growth studyblocks are identified, their default cohort percent change rate is set to 100% so as not to over-project new residential growth. By default, growth is not predicted to continue unless new occupied dwelling units are projected.

### *Dwelling Unit Impact*

The predicted impact of new dwelling units on school enrollment is based on three factors: 1) new dwelling units, 2) the student generation rate for each unit type, and 3) the grade level distribution of newly generated students.

#### 1. Dwelling Units

New dwelling units are categorized into 3 housing types: Single Family Detached, Single Family Attached, and Multifamily. Developers and builders are contacted for information relative to their plans for occupancy of new dwelling units.

#### 2. Student Generation

Student generation rates are determined for each product type for each level: elementary, middle school and high school. Student generation rates are based on similar product types where such exist; otherwise, a default generation rate is used.

#### 3. Grade Level Distribution

For each level, students generated by new dwelling units are distributed across grade levels. These percentages are based on historical patterns where they exist; otherwise, default percentages are used.

## SCHOOL PROJECTIONS

Projecting enrollment at the school level is based on the concept of a school draw rate, i.e., the percent of students from a given studyblock who enroll in a school at its lowest grade. Draw rates reflect the impact of open enrollment within a district. For example, if one-half the sixth graders from a given

studyblock enroll in a particular 6–8 middle school, that school has a draw rate of 50% from that studyblock.

The draw rate for the most recent year is applied by default to the projected district enrollment for that grade from a given studyblock. The draw rate ages with the cohort. In this way, if the underlying cohort changes, the number of students enrolled at the school will change accordingly.

Draw rates can be adjusted if necessary. Manipulation of draw rates is used, for example, to project the impact of changes in attendance boundaries, or the impact of closing a school to open enrollment.

#### *Intra-district Transfers*

Grade-level transfers within or across schools are included in the projections to accommodate fluctuations like retention, transfer to continuation school, or any other special programs a district may offer that result in students changing schools at other than the typical grade configuration shifts. Transfers are calculated by applying the percent of a grade level population at one school that is transferred in the following year to another school or continued at the same grade level at a given school in the following year.

### CAVEATS ON PROJECTIONS AND METHODOLOGY

#### *On Projections*

Enrollment projections are based upon two critical factors: the student and school data from the school district and the mathematical formulas that are applied to those data. Projections fundamentally look at recent history as reflected in the student data and assume that past patterns and trends will continue. The calculations assume that the historical data provided is at one-year intervals based on enrollment at the beginning of each school year.

PowerSchool Predictive Enrollment Analytics takes great care in preparing a district's projections. A range of unpredicted anomalies, however, can cause reality to vary from the historical patterns. These include, but are not limited to, rapid changes in the economy, mortgage interest rates, the housing market, the job market, residential development plans, rental rates, global pandemics, etc. Anomalous changes that occur between the last set of student data and the first projection are not reflected in the projections unless the district works with PowerSchool Predictive Enrollment Analytics to amend the projections.

In the projections, calculations are mathematically precise. Each result is rounded to a whole number for ease of reading. This rounding sometimes results in the displayed whole numbers in a column not adding exactly to the displayed total of the column. This phenomenon, which is a result of rounding and not of any inaccuracy in the calculations, occurs both in the enrollment projections, residential reports, and community demographics.

#### *On Student Data*

PowerSchool Predictive Enrollment Analytics obtains historical student data files from the district. To the extent that the student data files are internally inconsistent from year to year, or the count of students in the files does not reflect the count of actual enrollees, errors are introduced to the projection calculations. For optimum results, the student data files must also consistently capture the same categories of students annually.

The calculations assume that the historical data provided is at one-year intervals based on enrollment near the beginning of each school year. It is important that the student files obtained from the district are close to a common date each year, typically near the beginning of the school year. The snapshot of



historical data near the beginning of the school year is best suited to our goal of projecting enrollment for the beginning of subsequent school years. To the extent the historical student data provided is not at one-year intervals or is not at a common date near the beginning of the school year, projections may reflect monthly fluctuations in enrollment that will diminish the accuracy of the projections.





**APPENDIX**

**TRANSPORTATION  
VMT AND EVACUATION  
ASSESSMENT**

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# Memorandum

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**To:** Andrew Hill, MUP  
Principal  
DYETT & BHATIA

**From:** Ayberk Kocatepe, PhD.  
Frederik Venter, PE  
Michael Schmitt, AICP CTP, PTP, RSP<sub>1</sub>  
Chris Gregerson, PE, TE, PTP, PTOE

**Re:** *City of Monterey General Plan Update*  
Vehicle Miles Traveled (VMT) Analysis

**Date:** December 11, 2023

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This memorandum documents the Vehicle Miles Traveled (VMT) analysis completed for three scenarios (2023 Baseline, 2031 No Project, 2031 with Project,) for the City of Monterey General Plan Update. This VMT Analysis is provided to support the CEQA analysis for the City's General Plan Update project, which includes updates to the Housing, Safety, Land Use, and Circulation Elements of the General Plan.

## **Methodology and Assumptions**

Based on the land use information provided, for the purposes of SB 743 analysis and the determination of transportation-related significant impacts, the following major land uses were analyzed:

- Residential
- Employment-based (Manufacturing and Mining, Construction, Finance and Real Estate, Service, Public, Agriculture, Wholesale, Education, Health)

The most recent version of the Association of Monterey Bay Area Governments Regional Travel Demand Model (AMBAG RTDM), which was released in 2022<sup>1</sup>, served as the primary tool for calculating VMT across all land uses. The AMBAG RTDM has a base year of 2015 and a future year of 2045. Both the base year and future year versions of the AMBAG RTDM were employed to assess the VMT impacts of the land uses across three specific analysis scenarios. The land uses were evaluated based on these scenarios:

- Baseline – 2023 land use in the incorporated and unincorporated areas of the County
- 2031 No Project – 2031 land uses in the incorporated and unincorporated areas based on the housing element (HE) update in the County, excluding the City of Monterey.
- 2031 With Project – 2031 land uses in the incorporated and unincorporated areas based on the HE update in the County, including the City of Monterey.

## ***SB 743 Background and City of Monterey Thresholds of Significance***

SB 743 is an effort by the California legislature to improve California's sustainability and reduce greenhouse gas emissions through denser infill development, a reduction in single occupancy vehicles, improved mass transit, and other actions. VMT is widely accepted as a reliable proxy for evaluating Greenhouse Gas (GHG) and other transportation related impacts that the State is actively trying to address.

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<sup>1</sup> The AMBAG RTDM was provided to Kimley-Horn by AMBAG staff on September 23, 2022.

In January 2019, the California Natural Resources Agency finalized updates to the CEQA Guidelines including the incorporation of SB 743 modifications. The Guidelines' changes were approved by the Office of Administrative Law and are now in effect. Specific to SB 743, Section 15064.3(c) states, "The provisions apply statewide as of July 1, 2020."

To aid lead agencies with SB 743 implementation, the Governor's Office of Planning and Research (OPR) produced a VMT Guidelines<sup>2</sup> document that included detailed guidance about the variety of implementation questions they face with respect to shifting to a VMT metric.

This SB 743 compliant analysis was performed based on guidelines established by the City of Monterey, for determination of potential VMT related transportation impacts caused by the Project to the surrounding area. The City of Monterey's VMT thresholds consider the VMT performance of residential and non-residential components of a project separately, using the efficiency metrics of VMT per capita and VMT per employee, respectively. The City of Monterey's VMT thresholds of significance are summarized below for each of these components:

- Residential – 15% below baseline (existing) average VMT per Capita
- Employment-based land uses (e.g., office) – 15% below baseline (existing) average VMT per Employee

### ***Land Use Inputs***

The land use projections for the City of Monterey 2031 Housing Element Update, specific to each analysis scenario, were sourced from the Client, the City, and AMBAG staff. These were analyzed with the following considerations and adjustments:

- For the Environmental Impact Review (EIR) to mirror the City's actual conditions, the employment assumptions for the 2023 Baseline were adjusted. However, the total employment growth (control total) between 2023 and 2045 was kept consistent.
- Employment growth between 2023 and 2045 was redistributed to the relevant City Traffic Analysis Zones (TAZs) to reflect land use and zoning changes that would be made for implementation of the 2031 General Plan Update. A total of 457 jobs were removed from TAZs and added to other TAZs, accordingly. The overall projected increase in new jobs within the City from 2015 to 2045 remains unchanged, totaling 7,415 jobs.
- The growth of unoccupied housing units (i.e., households) in the City of Monterey from 2023 to 2031 is 5,682 units. In areas of the County excluding the City of Monterey, the growth amounted to 17,065 units.
- The 6<sup>th</sup> Cycle Housing Element Update for the City and the adjacent cities in the County includes adjustments to occupied household estimates in terms of vacancy rates, overcrowding percentages, need for replacement housing, and percent of households that are cost-burdened. However, direct integration of these factors would result in overestimating the number of trips and total population unless significant changes are made to the model structure and underlying demographic forecasts, particularly as it relates to occupancy rates and persons per household. In addition, direct integration of these factors at the TAZ level, while the Regional Housing Needs Allocation Plan is at a larger scale, could result in misleading forecasting results. Hence, we used adjustment factors in accordance with the 2023-2031 Regional Housing Needs Allocation (RHNA 6) to reasonably estimate occupied housing units in the County.

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<sup>2</sup> *Technical Advisory on Evaluating Transportation Impacts in CEQA*. Governor's Office of Planning and Research, State of California. December 2018.

- Per the California Department of Housing and Community Development (HCD) guidance, 120 new ADUs in established single-family neighborhoods were distributed across the City.
- To estimate the VMT more precisely in two expansive TAZs that included new residential developments (TAZ 577 and TAZ 771), these zones were split into multiple TAZs that covered smaller areas. The splits were done because otherwise, traffic would have been directed to inappropriate roadways, leading to flawed VMT projections.
- The AMBAG RTDM does not feature interim years such as the 2031 analysis year, instead featuring just the base year of 2015 and the future projection of 2045. Thus, for 2031 land use approximations, values were interpolated based on the growth observed between 2023 and 2031.
- The 2031 No Project scenario includes projected land use changes for 2023-2031 in the County excluding the City. The 2031 With Project scenario includes projected land use changes for 2023-2031 in the County including the City.

The land use totals for the proposed scenarios are summarized in **Table 1** below.

**Table 1 – Land Use Inputs**

Scenario	Households (City)	Employment (City)	Households (County)	Employment (County)
2023 Baseline	13,421	22,246	132,414	217,512
2031 No Project	13,603	24,220	151,085	227,882
2031 With Project	18,725	24,220	156,207	227,882

The AMBAG RTDM adopted in 2022 provides land uses based on residential and employment classifications. Employment classifications are broken into eleven categories that group together various industries based on similar trip-making characteristics. Note that the eleven employment categories were an expansion compared to the previously adopted AMBAG model, which only contained six employment categories. **Table 2** below shows the cross-reference between the North American Industry Classification System (NAICS) industries and AMBAG sectors.

**Roadway Network Assumptions**

The baseline transportation network model uses the 2015 roadway network from the AMBAG model. For both the 2031 With Project and 2031 No Project scenarios, the network is derived from the 2045 AMBAG model roadway network, under the assumption that there will be no modifications to the transportation network from 2031 to 2045. After dividing the TAZs, connectors were employed to link the new TAZs to the current roadway system. Nevertheless, there were no additions or alterations to the roadway segments.

**Table 2 – AMBAG RTDM Employment Categories**

Category	Description and NAICS codes
Agriculture (AGR)	Agriculture, Forestry, Fishing, and Hunting (11)*
Construction (TR_CON)	Construction (23), Utilities (22), Transportation and Warehousing (48-49), Administrative and Support and Waste Management and Remediation Services (56), Public Administration (92)*
Manufacturing and Mining (MFG)	Mining (21), Manufacturing (22, 31-33),
Wholesale (WHL)	Wholesale Trade (42), Agriculture, Forestry, Fishing, and Hunting (11)*



<b>Retail (RET)</b>	Retail Trade (44-45), Agriculture, Forestry, Fishing, and Hunting (11)*
<b>Finance and Real Estate (FIRE)</b>	Information (51), Finance and Insurance (52), Real Estate Rental and Leasing (53), Professional, Scientific, and Technical Services (54), Management of Companies and Enterprises (55)
<b>Education (EDU)</b>	Educational Services (61), Public Administration (92)*
<b>Healthcare (HLT)</b>	Health Care and Social Assistance (62)
<b>Service (SER)</b>	Art, Entertainment, and Recreation (71), Accommodation and Food Service (72), and Other Services (81)
<b>Public (PUB)</b>	Public Administration (92)*
<b>Self</b>	Self-Employed
*Note: Some NAICS industry sectors have been divided up, based on business operations and transportation demand, across AMBAG sectors.	

## Analysis

The following sections detail the analysis completed:

### ***Residential and Employment-based Land Uses***

The VMT for the residential land uses was computed by combining the production VMT for all Home-Based trip purposes. VMT for non-residential land uses was computed from the attraction Home-Based Work VMT. The external VMT for residential land uses was determined by multiplying the calibrated external trip distance by TAZ determined using big data (Replica) by the total internal-external (I-X) Home-Based trips for that TAZ. The external VMT for non-residential land uses was determined by multiplying the calibrated external trip distance by TAZ determined previously by the total internal-external (I-X) Home-Based Work trips for that TAZ.

To determine the share of the non-residential VMT for the employment-based land uses, the total number of trips attracted to each TAZ was calculated by multiplying the model’s underlying trip generation rate for the Home-Based Work trip purpose by employment type. The land use share of the total VMT was then calculated by dividing the number of trips by employment by the total number of Home-Based Work Trips calculated using the trip generation rates. The VMT for the employment-based land uses was calculated by multiplying the land use share by the total Home-Based Work VMT (including External VMT).

Residential and employment-based VMT per Capita and VMT per Employee, respectively, for each TAZ were computed by dividing the residential and non-residential VMT by TAZ by the total population or total employees.

As this analysis provided an opportunity to update the City’s thresholds, the VMT per capita and VMT per employee were calibrated using measured VMT per capita and VMT per employee with Monterey County supplied by Replica, a big data platform that collects trip data from around the United States. The VMT calibration was completed by first calculating the percent difference in VMT per capita and VMT per employee for each TAZ and each employment type between the base year and 2031 scenarios, both No Project and Plus Project. As the base data only does not separate VMT per employee by employment type, a weighted average VMT per employee percent difference was calculated based on the number of employees in each TAZ for each scenario. The base data is also categorized by Census Block Group rather than by TAZ, so each model TAZ was associated with its own Block Group. A VMT per capita and VMT per employee percent difference for each Block Group was calculated using a weighted average based on the

total population and employment, respectively, for the TAZs within each Block Group. This percent difference was then applied to the base VMT per capita and VMT per employee for each Block Group to calculate a VMT per capita and VMT per employee for the 2031 No Project and 2031 Plus Project scenario for each Block Group. The Block Groups located in the City of Monterey were then combined to calculate a citywide VMT per capita and VMT per employee, as shown in **Table 3**.

**Table 3** summarizes the VMT evaluation across the analysis scenarios, as well as the City’s calculated residential and employment VMT per capita and VMT per employee thresholds. The thresholds were determined by setting them 15% lower than the baseline county-wide average VMT per capita and per employee, consistent with current City of Monterey guidelines. As shown in **Table 3**, the thresholds were calculated to be 14.3 VMT per capita for residential uses and 18.9 VMT per employee for employment uses.

The 2031 No Project scenario resulted in a VMT per capita of 12.9 and VMT per employee of 24.4. The 2031 Plus Project scenario resulted in a VMT per capita of 11.6 and VMT per employee of 24.5. Notably, both 2031 scenarios—whether No Project or With Project—do not exceed the VMT thresholds for residential. However, both 2031 scenarios result in employment-based land uses exceeding the threshold. It should be noted that the VMT per capita value is reduced by 1.3 VMT per capita between the 2031 No Project and 2031 Plus Project scenarios for residential uses. However, the VMT per employee value is increased by 0.1 VMT per employee between the 2031 No Project and 2031 Plus Project scenarios for employment uses.

**Table 3 – Vehicle Miles Traveled (VMT) by Scenario**

Jurisdiction	2031 No Project		2031 Plus Project	
	VMT/Capita	VMT/Employee	VMT/Capita	VMT/Employee
<b>Threshold</b>	<b>14.3</b>	<b>18.9</b>	<b>14.3</b>	<b>18.9</b>
City of Monterey	12.9	24.4	11.6	24.5
City of Monterey (% Threshold)	90.2%	128.9%	81.1%	129.3%
<b>Over Threshold?</b>	<b>No</b>	<b>Yes</b>	<b>No</b>	<b>Yes</b>

## Findings

Based on the results of this analysis, the following findings are made:

- The residential land uses do not exceed the threshold of significance for the 2031 Project and 2031 No Project scenarios. **Both the 2031 No Project and 2031 With Project scenarios are determined to not have a significant transportation impact for residential land uses.**
- The employment-based land uses exceed the threshold of significance for the 2031 No Project and 2031 With Project scenarios. As a result, the Project is determined to have a **significant transportation impact for employment-based land uses.**

Note that specific development projects may perform better or worse than the overall impacts determined by this programmatic level analysis. However, in the aggregate, it is likely that this VMT analysis represents a worst-case scenario given that it does not fully represent the effect of planned VMT-reducing design principles or the effect that targeted mitigation measures may ultimately have on development projects.

## **VMT Reducing Design Principles, Policies, and Improvements**

It's challenging to comprehensively account for the influence of particular design principles, policies, and enhancements that could reduce VMT in this analysis. Nonetheless, these strategies remain vital when interpreting the outcomes of this VMT assessment, and where relevant, they should be incorporated in future VMT evaluations within the City.

### ***VMT Reducing Design Principles***

Project design features that reduce VMT can potentially lower the overall VMT of the project. Considerations include:

- Compactness of design/Transit Oriented Development,
- A range of housing options,
- Incorporation of mixed uses,
- Walkable community, and
- A variety of transportation options, and
- The preservation of open space.

Since the AMBAG Model doesn't inherently cater to the effects of several design principles detailed and the precise characteristics, location, and timeline of these VMT-reducing strategies are uncertain, the additional impact of these design elements will necessitate assessment at the specific project level. However, it's crucial to understand that these factors will significantly influence the analysis of development projects, though the extent will depend on the chosen location and design features.

### ***VMT Reducing Policies and Improvements***

This section delves into the establishment of a framework for a programmatic approach to policies and improvements that respond to the need for feasible VMT mitigation within the City. The pinpointed opportunities for VMT mitigation include:

- Transportation Demand Measures
- 2045 Metropolitan Transportation Plan & the Sustainable Communities Strategy
- Participation in a VMT Bank
- VMT Reducing Design Principles

### ***Transportation Demand Measures***

VMT mitigation typically depends significantly on Transportation Demand Measures. Generally, these measures encompass two primary strategies: policy-based and infrastructure-related. The California Air Pollution Control Officers Association (CAPCOA) guide for Quantifying Greenhouse Gas Mitigation Measures is one of the primary bases for estimating mitigation effects in California. The most recent version of CAPCOA's Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity was published in January 2022. While this resource is of great significance, caution is essential when applying it, especially since some measures come from smaller sample sets and many measures are rooted in observations from densely urbanized regions. Depending on the chosen measures, they can pose challenges in terms of mitigation monitoring. Furthermore, they are often not favored by project applicants because of the potential need to be managed and paid for in perpetuity. Such constraints have led authorities to gravitate towards programmatic strategies for VMT mitigation.

The team reviewed measures to find those fitting for the City and to determine their maximum potential in reducing VMT. While some options can be applied to specific projects, many are more effective when

used systematically. The measures listed below are considered suitable for a systematic approach in Monterey:

- Reduce Parking Supply
- Transit Stops
- Travel Behavior Change Program
- Promotions & Marketing
- Emergency Ride Home (ERH) Program
- Bike Share
- Implement/Improve on-street and on-site Bicycle facilities
- Affordable Housing

### **2045 Metropolitan Transportation Plan & the Sustainable Communities Strategy**

AMBAG developed a Sustainable Communities Strategy (SCS) which was integrated into the Metropolitan Transportation Plan (RTP). According to the AMBAG MTP/SCS, the region is intended to meet or surpass these objectives, aiming to considerably reduce greenhouse gas emissions by 2045. The AMBAG MTP/SCS outlines various approaches to reach these aims. These approaches emphasize the integration of land use planning with transportation enhancements. A few primary approaches from the MTP/SCS relevant to the City are listed below:

- Improve job-housing balance in the region
- Focus new growth around transit
- Improve transit network
- Promote and improve active transportation
- Promote shared mobility

### **Participation in a VMT Bank**

Programmatic approaches, where large infrastructure projects are jointly funded, show potential for VMT reduction. This is because they allow projects to pay a one-time fee proportional to their impact without the need for continuous monitoring or management. Plus, these strategies can benefit the public by funding transportation improvements that might not be built otherwise. This can lead to less traffic congestion, lower GHG emissions, more transport options, and more chances for active transportation.

In a VMT Banking framework, various VMT-reducing projects are bundled, and their VMT reductions are turned into buyable credits. These credits can then be bought to offset VMT over thresholds. The projects in the bank can benefit either the wider region or just the local area. However, having a VMT Bank could offer valuable options for developments that might otherwise struggle to lessen their impact.

### **VMT Mitigation**

It is not possible to fully account for the effect of specific design principles, policies, and improvements that will reduce VMT as part of this analysis. Although many of the VMT-reducing design principles, policies, and improvements that are described in the prior section may ultimately mitigate and/or potentially reduce the VMT impacts outlined in this evaluation, necessary details to assure implementation and appropriately evaluate their effect are not yet available. The VMT-reducing approaches cited in the prior section will require further planning and development as well as committed funding sources including those from participants in the development community (many of which may not be identified yet as large areas of land may be further subdivided into specific projects and development



October 17, 2023

Andrew Hill, MUP Principal  
DYETT & BHATIA  
Urban and Regional Planners 4001  
Howe Street  
Oakland, CA 94611

Re: *City of Monterey, CA*  
Evacuation Route Capacity Assessment  
Monterey, California

Kimley-Horn and Associates, Inc. (“Kimley-Horn” or the “Consultant”) is tasked to conduct an evacuation route capacity analysis for the City of Monterey General Plan Update. This provides an assessment of roadway capacity under the described wildfire and flood scenarios in compliance with SB99 and AB747.

### Introduction and Purpose

This document is an assessment of the City of Monterey’s roadway capacity during a variety of evacuation scenarios. It evaluates the ability of the roadway system to accommodate an evacuation event under a worse-case scenario in the City of Monterey. A worse-case scenario for this analysis is defined as two simultaneous natural events (wildfire and flooding). The purpose of this is to test the roadway under a worst-case scenario, that is a short-notice evacuation. During short notice evacuation worse case scenario, it wouldn't be reasonable to assume to coordinate complex instructions and or Presidio. Coordination with other agencies and establish required traffic controls. Under the circumstances, they are encouraged to navigate to well-established routes they know.

### Background

Recent regulations related to emergency evacuation that are addressed in this assessment include the following bills and guidelines passed by the State of California.

- Assembly Bill (AB) 747: Local governments must update their safety elements to identify evacuation routes and their capacity, safety, and viability under a range of emergency scenarios. This requirement applies to all safety elements or updates to hazard mitigation plans completed after January 2022.
- Senate Bill (SB) 99: Local governments must update their safety elements to identify residential developments in hazard areas that do not have at least two emergency evacuation routes.
- State of California, Office of the Attorney General Best Practices for Analyzing and Mitigating Wildfire Impacts of Development Projects Under the California Environmental Quality Act (CEQA): This guidance document recommends that local governments use evacuation modeling and analysis to assess the impact of new development on evacuation and emergency access.

In other words, California law now requires local governments to consider evacuation routes and emergency access when planning and approving new developments in high wildfire-risk areas. This assessment uses evacuation modeling and analysis to assess the ability of the City’s transportation system to provide adequate emergency evacuation capacity during a wildfire and flood evacuation, considering areas under very high wildfire and/or high flooding risk.

Evacuation analysis is done by evacuation modeling. This is a systematic approach used to simulate and plan the movement of people from areas at risk to places of safety. It involves the use of computer-based models and real-world data to predict how individuals and vehicles will respond and move during an evacuation.

Key Components of Evacuation Modeling:

- **Geographical Data:** Data about the area under threat, including road networks, population density, and hazard zones. This information helps us understand the physical layout of the region.
- **Behavioral Data:** Data about how people typically behave during evacuations. This includes factors like the time it takes for individuals to decide to leave, how they choose their evacuation routes, and their preferred modes of transportation.
- **Transportation Infrastructure:** Understanding the capacity of the roadways, bridges, and public transportation systems is critical.

One of the crucial indicators in evacuation modeling is the "volume over capacity ratio." This ratio indicates whether there are too many vehicles on the roads compared to what the roads can handle comfortably.

- **Volume:** This refers to the actual number of vehicles and people trying to evacuate.
- **Capacity:** Capacity represents the maximum number of vehicles and people that the transportation infrastructure can handle without causing congestion and delays.
- **Ratio:** When the volume exceeds the capacity, it results in a high volume over capacity ratio, indicating potential congestion and delays in the evacuation process.

### SB 99 Accessibility Analysis

Kimley-Horn reviewed the evacuation routes and evacuation shelter area (Monterey Fairgrounds) provided by the city, which are attached to this report as Attachment 1. Under a short-notice evacuation condition, the shelter is not a consideration and is not being activated under the modeling scenarios. Monterey Fairgrounds would be used for long-notice evacuation destinations. The review process focused on identifying wildfire and flooding hazard zones and how these zones/areas would impact evacuation routes and evacuation capacity. From Monterey Bay, the City has steep slopes and constrained road access, and the Presidio of Monterey creates a major east-west barrier within the City for roadway access. These constraints limit the number of available evacuation routes, as described below:

- Topography and the Pacific Ocean limit access to the west such that emergency access is limited to the following roadway facilities such as:
  - Veterans Dr
  - Skyline Dr
  - Via Del Rey
  - Via Gayuba
  - Pacific St
  - Mar Vista Dr
  - Soledad Drive
- The Presidio of Monterey limits access to the northwest of the city such that emergency access is limited to:
  - Lighthouse Ave

A review of hazard zones shows that the city's south/southeast and west regions exhibit a very high risk of wildfire and

a high risk of floods (Attachment 1), as described below:

- Parts of Josselyn Canyon and the Flats (Wildfire)
- East of Holman Highway (Wildfire)
- East of Highway 1 and west of La Mesa Village (Wildfire)
- Monterey Bay Park, Del Monte Avenue, Camino El Estero, and Camino Aguajito (Floods). Based on FEMA hazard maps, and the adopted city of Monterey GP in 2019, Lighthouse Ave tunnel is not a high-risk flood zone area. However, it is understood that tunnel floods during heavy rain events. Fremont Street would continue to be the primary evacuation route for the designated areas. This analysis is only focusing on the worst-case scenario analysis for the highest-risk zones. Nevertheless, since Del Monte Ave is closed, the traffic is already being diverted to Fremont Ave. It means that Lighthouse Ave is not being used.

In a worst-case scenario, all southern conduits such as Highway 68 could be blocked for neighborhoods such as Skyline, and Monterey Vista, cutting off the northwest of the City such as New Monterey, Presidio, and Pacific Grove. Furthermore, during a short-notice evacuation, evacuees are encouraged to navigate to well-established routes they know and move away from the hazard areas as far as possible.

To address this risk, two destination points (shown in Attachment 2 and Attachment 3) have been identified on the east and northeast sides of the city in compliance with the available evacuation routes. The destination selected on the north is located at Highway 1 at the Fremont Blvd/Del Monte Blvd Interchange and Seaside. The destination selected on the east is located on Highway 68 at York Road in Ryan Ranch. Evacuation access across the city was assessed by looking at how far people would possibly have to travel during an event. This methodology offers insights into evacuation accessibility and aids in pinpointing communities that might confront heightened risks amidst evacuation occurrences. To do this, we used the city parcels to evaluate the accessibility of the neighborhoods. The assessment, illustrated in Attachment 2 and Attachment 3, identifies the shortest distance to those two exit points.

#### *Constrained Parcel Groups*

The analysis was conducted to identify residential parcels in the city and within hazard zones that are restricted to a single emergency access route. Note, that the city's designated zones for wildfire and flood hazards are situated in contrasting locales, resulting in distinct clusters of constrained parcels and roadways pertinent to each type of hazard.

Having parcels with constrained access is highly detrimental during an evacuation, as it significantly impedes the swift and orderly movement of residents to safer locations. Such limitations can lead to congestion, delayed emergency response times, and heightened risk to life and property, especially in high-risk areas where rapid evacuation is imperative due to imminent threats. Attachment 4 delineates the mapped locations of all constrained residential parcel groups located in the city.

Attachment 5 outlines constrained parcels located in the areas of Skyline Forest, Monterey Vista, and smaller portions of Old Town neighborhoods which are at heightened risk of wildfires and are restricted to a single emergency access route. Attachment 6 indicates constrained parcels in The Flats neighborhood situated to the southeast of Monterey-Salinas Highway (SR 68), that are also under very high wildfire hazard risk and are restricted to a single emergency access route. Attachment 7 indicates the areas and parcel groups with limited access under potential high-flooding risk such as Del Monte Beach and Lake El Estero.

## Evacuation Route Capacity Assessment

The assessment of route capacity was conducted consistent with AB 747 requirements, particularly focusing on its capability to facilitate an evacuation during wildfires and/or floods. The relevance of AB 747 lies in its mandate to ensure the optimal utilization of transportation systems during evacuations, and it attempts to provide a structured approach to analyzing and enhancing existing setups.

When undertaking this review, reasonable assumptions were made to facilitate the analysis and allow for more streamlined and focused research. The nature of evacuation scenarios is complicated and involves many of unpredictable and dynamic elements. With the abundance of variables, ranging from human behaviors to the suddenness of events, factoring every possible scenario is not possible. Given this complexity, it is pivotal to introduce assumptions to create a manageable framework that allows us to run specific scenarios and derive meaningful insights and conclusions that can guide further detailed investigations and refinements of our models.

Two distinct areas were identified in collaboration with city staff as

- Very High-Risk Fire Hazard Zones (VHFHZ) are indicated in the Attachment 8.
- High-Risk Flood Zone also indicated in Attachment 8.

For the very high-risk fire hazard zones (VHFHZ), evacuation analysis was only conducted for the area located in the Skyline, Monterey Vista, and parts of Old Monterey areas as discussed with city staff. The very high-risk wildfire area in the Flats has evacuation routes along Aguajito Road and Josselyn Canyon Road. Further evacuation analysis is not required for this area.

### *Modeling Assumptions*

- The analysis focuses on the Skyline, Monterey Vista, Old Monterey area, and the high-risk flood zone area as depicted in Attachment 8. The Flats were assessed qualitatively.
- The analysis is based on a single, multi-hazard evacuation scenario, which represents a worst-case situation encompassing both very high fire hazard (Local Responsibility Area) and high -flood risk. The analysis aligns with the city of Monterey's 100-year flood zone and FEMA's 1% annual chance of flood hazard maps that estimate the high chance of flooding on Del Monte Ave, Camino El Estero, and Camino Aguajito. Note that FEMA flood maps show how likely it is for an area to flood. Any place with a 1% chance or higher chance of experiencing a flood each year is considered to have a high risk. Those areas have at least a one-in-four chance of flooding during a 30-year mortgage. FEMA's 1% annual chance of flooding is used for evacuation analysis.
- The evacuation notice is a short notice, issued abruptly early in an off-peak when all residents are at home and evacuation demand traffic would be at its highest. The off-peak is defined as hours outside of the morning and afternoon peak periods that occurs 6 AM-9 AM and 4 PM-7 PM.
- Given the short notice for an evacuation, it is assumed that all evacuee traffic will enter the transportation network at the same time. Typically evacuation occurs in an S-curve in which most trips occur in a short time. In addition, the AMBAG Travel Demand model cannot simulate an S-curve evacuation. This analysis produces slightly conservative results, which is acceptable for the purposes of this analysis.
- No evacuation is assumed for Pacific Grove since the fire location poses a direct threat to Monterey only.
- For the purpose of this analysis, traffic is directed towards designated evacuation routes.
- This analysis does not account for "shadow evacuees" – individuals who depart even if not explicitly instructed to.
- All evacuees who head towards two exit destination points (shown in Attachments 2 and 3) have been



identified on the east and northeast sides of the city in compliance with the available evacuation routes. The destination selected on the north is located at Highway 1 at the Fremont Blvd/Del Monte Blvd Interchange and Seaside The easterly destination point selected is located on Highway-68 at York Road in Ryan Ranch. Given the short-notice evacuation, the evacuation shelter would have not been prepared in advance, so it is not related to short-notice evacuation.

- The number of evacuees per vehicle is determined using household size and vehicle ownership data based on the Association of Monterey Bay Area Governments (AMBAG) Travel Demand Model (TDM) which includes LEHD, Census, American Community Survey (ACS), and local data.
- Roadway capacities adhere to existing conditions.
- Background traffic which would be already on the network when an evacuation occurs compromises 15% of the capacity of the roadways in off-peak. This traffic is referred to as the unaffected background traffic for an evacuation event.
- This analysis does not assume any evacuation from people using boats or airlifts.
- Holman Highway is operating with 10% capacity as an evacuation route because of its location of proximity to high-risk wildfire. This 10% is only available for dispatch units as well as other operational vehicles. Local streets, collectors' streets, and arterials will be utilized to gain access to Highway 1 to evacuate to destination points. As shown in Attachment 8, the area notably lacks proximal evacuation routes.
- Due to flooding risks, Del Monte Boulevard is inaccessible between Camino El Estero and Camino Aguajito, as per the 100-year flood zone. The tunnel flooding also cuts off access to Del Monte Boulevard between the tunnel and the flood zone.
- The scenario analysis employs the most recent AMBAG model. This model, accommodating the Sixth Cycle RHNA projections for the City of Monterey and all other jurisdictions on the Monterey Peninsula, integrates the updated land use and accompanying projections. Additionally, the model has been updated to account for actual 2015 employment levels in the City.

*Land Use*

The assessment was executed focusing on the scenario for emergency evacuation that evacuates all households and employment shown in Attachment 8. To approximate the number of vehicles involved in such evacuations, references were made to the number of inhabitants, expected vehicle ownership per household, and the number of employees within the designated area. The information regarding land use within the evacuation zone for the evacuation route capacity analysis is summarized in Table 1.

*Table 1 Evacuation Zone Land Use*

Land Use	2031 Conditions
Households	1,506
Population	3,314
Employment	1,048
Source: AMBAG model 2031 Build-out Projections	

In creating this scenario, several key land use assumptions have been made. One such assumption is the notion that households without access to a personal vehicle would inherently depend on external support to evacuate. This element is crucial, and while it was not the main focus of this assessment, it raises a significant point of consideration for the City. The development of programs or initiatives, potentially involving public transit or community-based solutions, could be vital in ensuring the seamless evacuation of such households, contributing to the overall efficacy and inclusiveness of our evacuation strategy.

It is presumed that employment centers would undertake the responsibility of facilitating the evacuation of employees lacking personal vehicles to the extent that employees would be at their place of work at the early off-peak time of day assumed for the multi-hazard scenario. This assumption is integral to creating a comprehensive evacuation model that encompasses not only residents but also the working population within the area, ensuring that all individuals, regardless of their access to personal transportation, are accounted for and assisted during emergency evacuations.

Another layer of our assumptions delves into the practical utilization of vehicles within multi-vehicle households during an evacuation. Specifically, it is assumed that households possessing more vehicles than licensed drivers would inevitably face limitations in mobilizing all their vehicles when an evacuation is warranted. For instance, households with three or four vehicles, but inhabited by only two licensed drivers, are anticipated to leave some vehicles behind. This assumption is not a trivial one; it impacts the accuracy of our vehicle flow models and helps in refining the projections related to traffic volumes and congestion levels during evacuation events. Table 2 provides the total vehicle trips based on the assumptions discussed above.

Table 2 Evacuation Demand

Evacuee type	Number of Vehicles per HH or Emp	Total	Vehicle Trips
Zero Vehicle Households	1	64	64
One Vehicle Households	1	486	486
Two Vehicle Households	2	564	1,128
Three Vehicle or more Households	2.5	392	980
Employees	1	1,048	1,048
TOTAL			3,706

*Model Analysis and Results*

Based on the land use and modeling assumptions, Kimley-Horn has developed a model using a software called CUBE to simulate the evacuation scenario. The results of the model analysis are illustrated in evacuation volume over capacity plot shown on Attachment 9. The results reveal that the evacuation proceeded through three local corridors: Skyline-Veterans Drive, Via Gayuba-Martin Street-El Dorado Street, and Mar Vista Drive-Soledad Drive. Evacuees navigated these corridors to access the main evacuation routes: Highway 1, Munras Avenue, and Fremont Street.

The volume over capacity plot (Attachment 9) only shows the roadway segments with V/C ration higher than 0.08. The plot indicates that the evacuation-induced traffic volumes largely remained below the capacity within the evacuation zones and their immediate vicinities. However, volumes surpassed capacity as traffic approached Highway 1, specifically at the interchanges of Fremont Street-Highway 1, and Soledad Drive-Highway 1. Upon accessing the primary evacuation routes, the traffic conditions are favorable, with sufficient capacity to facilitate a smooth evacuation, as depicted in Table 3. The V/C indicates that evacuation does not impact traffic down Lighthouse Avenue. On a systemwide basis, the roadways have adequate capacity for an evacuation. The analysis indicates that the overall capacity is 9,300, and the evacuation demand is 3,706 vehicles.

This analysis indicates that the existing roadways possess adequate capacity to accommodate evacuation traffic. However, it's pertinent to acknowledge the inherent unpredictability and potential irregularities in driver behavior during emergency scenarios.

Table 3 Evacuation Route Capacities

Roadway	Outbound Lanes	Evacuation Capacity (veh per hour)
Highway 1	2	3,600
Munras Avenue	2	3,000
Fremont Street	2	2,700
Total		9,300
The evacuation capacity refers to the roadway capacity being reduced by 15% because of the background traffic		

### Tsunami and Evacuation

In the event of an earthquake, it quickly generates a tsunami that reaches Monterey's coastline within minutes. This seismic event may also lead to a landslide in the Monterey Canyon. It is anticipated that earthquake sirens and tsunami warnings will be activated promptly.

Areas at risk of flooding (Attachment 10), including neighborhoods like Old Town, should be prepared for residents to move to higher ground which may be a few blocks away without delay. Unlike wildfire evacuations, there may not be enough time for a traditional evacuation process. If a tsunami is generated further out in the Pacific Ocean, the city will have a longer lead time for orderly evacuation utilizing all city streets before the tsunami wave arrives.

In the Canary Row-Lighthouse district, residents at risk of a tsunami's impact would need to move uphill, roughly beyond the Canary Row/Monterey Bay Scenic Trail. Attachment 10 also highlights that the Lighthouse curve would be prone to flooding, including the risk of the Lighthouse Tunnel submerging, along with several downtown blocks. In response, residents in these locations should promptly evacuate uphill upon hearing tsunami warning signals generated when the tsunami originates from the Monterey Canyon.

As for the Lake El Estero area, it is expected to suffer the most severe flooding during a tsunami event, affecting both Del Monte Ave and Fremont Street. Attachment 10 indicates evacuation patterns that are recommended due to a worst-case tsunami.

Engagement with at-risk communities should emphasize community-centric planning, focusing on those threatened by tsunamis. Simultaneously, an all-encompassing response and recovery strategy must be devised, encompassing the coordination of critical services such as law enforcement, rescue services, emergency medical services (EMS), and public utilities. This comprehensive approach ensures that essential functions are maintained, and recovery efforts are efficiently orchestrated in the aftermath of a tsunami.

### Qualitative Assessment of Potential Evacuation Route Constraints in Adjacent Cities

When considering the potential evacuation route constraints for Monterey, CA, and its adjacent cities like Pacific Grove, Seaside, and Sand City, it is imperative to incorporate a qualitative discussion focusing on the unique geographical and infrastructural elements of each area. Below is a qualitative discussion examining various aspects and considerations regarding the adjacent cities:

- Pacific Grove:

Pacific Grove's proximity to the coastline and rugged terrain poses significant constraints to the development and utilization of evacuation routes. The limited road capacity and possible bottlenecks at key intersections could significantly hinder the flow of evacuation traffic, especially during a mass evacuation scenario. Additionally, the presence of residential areas intermingled with natural habitats can exacerbate the risk of wildfires, necessitating well-coordinated and effective evacuation plans.

- Seaside:

Seaside's urban density and potentially congested roadways can act as a bottleneck during evacuation, limiting the mobility of evacuating residents. The interaction between local and through traffic, especially during peak hours, can constrain the effectiveness of evacuation routes. Additionally, specific attention needs to be paid to the synchronization of traffic lights and effective traffic management to prevent gridlocks during evacuation.

- Sand City:

Given its smaller size and industrial character, Sand City might experience constraints due to limited egress points and road network capacity. The presence of industrial complexes and commercial centers logistical hubs may necessitate additional planning to manage the evacuation of large vehicles and freight traffic, which could obstruct regular vehicular movement.

- Carmel-by-the-Sea:

The city's intricate layout, characterized by winding roads and residential zones interspersed with wooded areas, presents substantial constraints during high-pressure evacuation scenarios, particularly during wildfires. Given Carmel-by-the-Sea's status as a tourist destination, there could be an influx of unfamiliar drivers during an emergency, complicating traffic management and potentially causing confusion and delays during evacuations.

- SR68 towards Salinas:

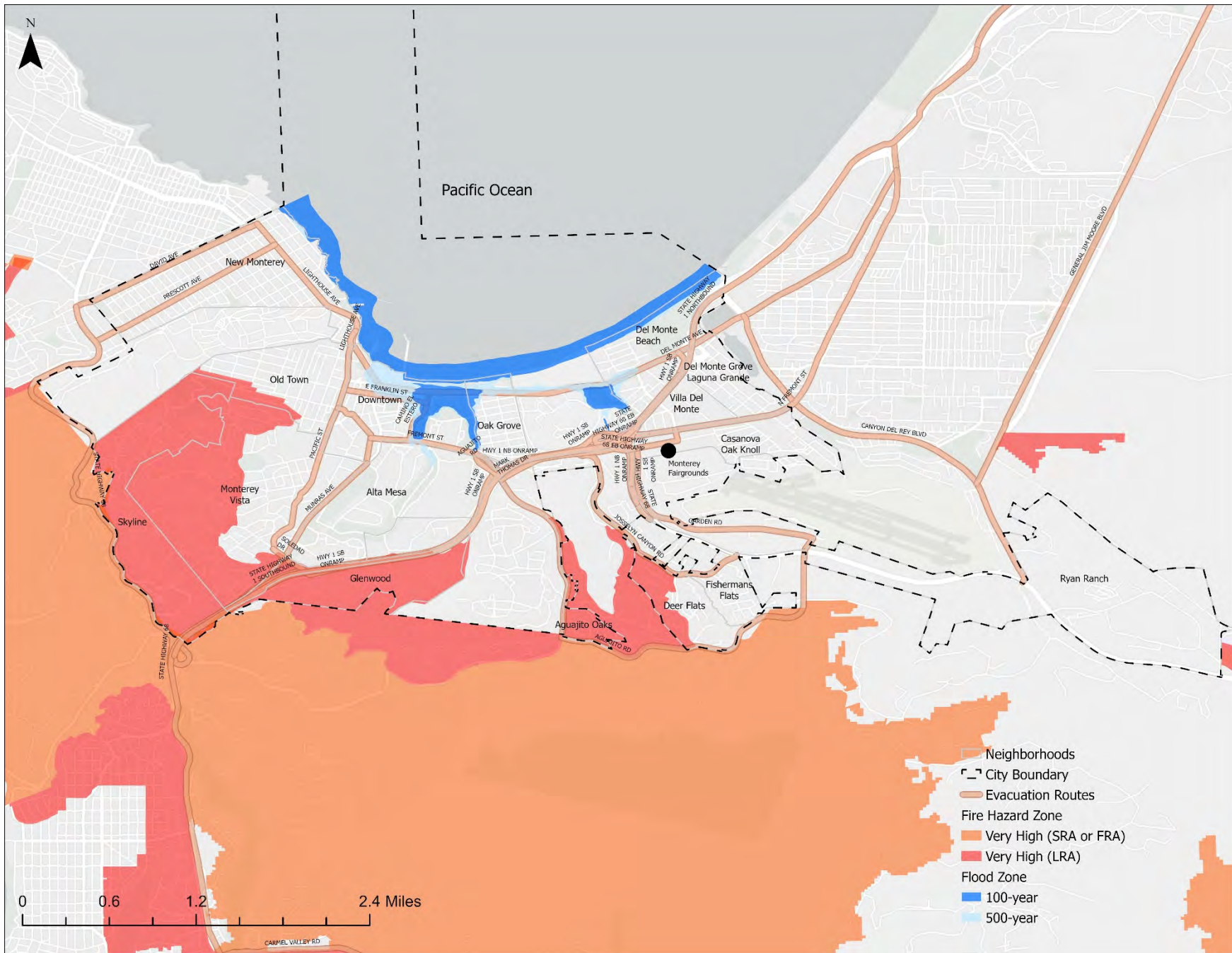
The SR68 corridor, serving as a critical connector between Monterey and Salinas, embodies various unique challenges that require thoughtful evacuation strategies. The corridor's significance as a primary artery for both daily commuters and freight transport elevates the importance of maintaining continuous traffic flow during evacuation scenarios. The existence of agricultural zones and the associated movement of agricultural vehicles and equipment require planning to prevent any obstruction to the evacuation traffic, ensuring a smooth transition of various traffic types during crises.

## Recommendations

The City of Monterey is characterized by its diverse geographical features and unique neighborhoods. Given the importance of addressing evolving emergency evacuation needs, particularly in areas such as the southwestern neighborhoods, the following comprehensive recommendations can enhance evacuation strategies, focusing on addressing areas with high volume-to-capacity ratio, optimizing roadway designs, and fostering robust connectivity, all with an aim to ensure the safety and well-being of the residents.

- Address potential bottlenecks by temporarily widening highway ramps by placing traffic cones to indicate two lanes to accommodate a higher volume of evacuating vehicles, mitigating congestion and delays.
- In high-risk areas, consider of evacuation capacity during roadway design and maintenance initiatives. For instance, considering painted medians over raised medians can significantly increase evacuation capacity and flexibility, however, roadway safety is paramount and careful consideration must be taken when determining how to design a median.

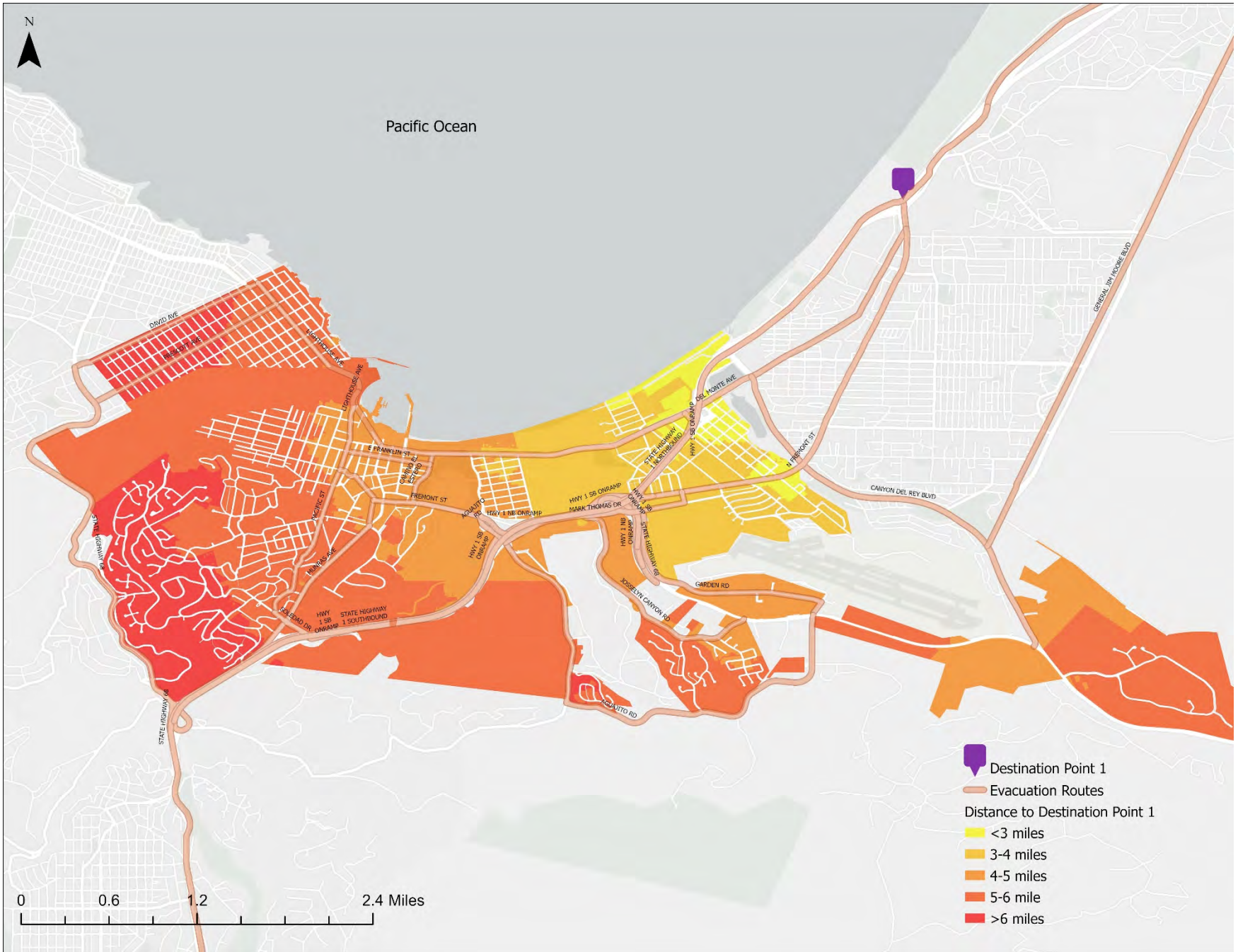
- Deploy adaptive traffic signal control systems that dynamically respond to real-time traffic conditions, giving priority to evacuation traffic, and ensuring efficient traffic flow during emergencies.
- Install clear and comprehensive signage and wayfinding to facilitate smoother traffic flow, directing residents effectively to evacuation routes.
- Employ dynamic message signs, roadway sensors, and other ITS tools to disseminate real-time traffic conditions, alternative routes, and delays to drivers, enhancing situational awareness and decision-making.
- For neighborhoods with limited access points, provide additional emergency access roads to facilitate smoother evacuation processes.
- Develop and improve connectivity between different neighborhoods to provide alternative evacuation routes, alleviating pressure on the primary access points.
- Ensure road surfaces can withstand all weather conditions and are maintained to accommodate increased traffic during evacuations.
- Coordinate with transit agencies and other bus operators to provide organized public transportation, like buses, to transport residents lacking personal vehicles, subsequently reducing the total number of vehicles on the road during evacuations.
- Work with adjacent cities like Pacific Grove, Seaside, and Sand City to synchronize evacuation efforts and manage regional traffic flows efficiently.
- Educate and train residents about evacuation preparedness.



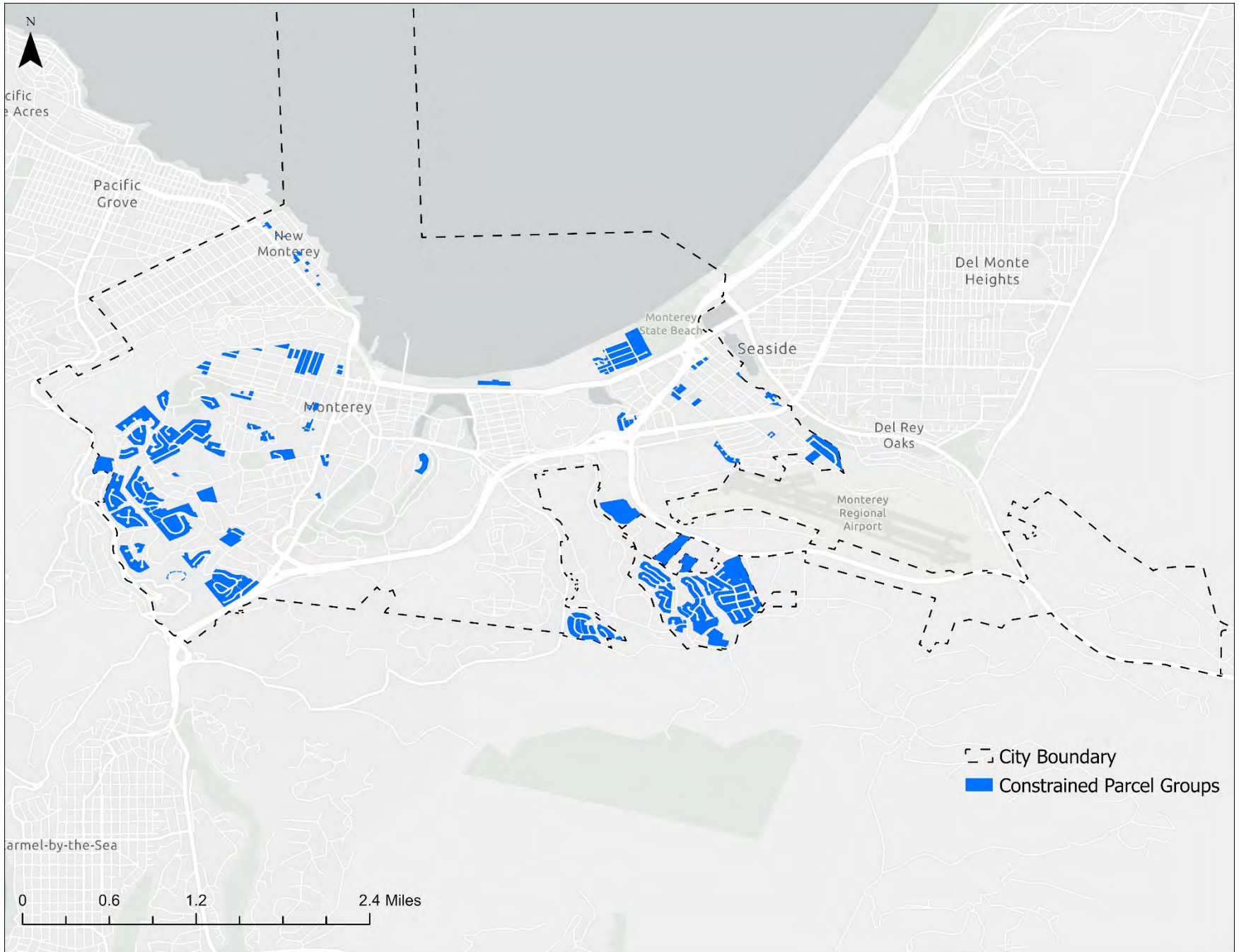
Attachment 1



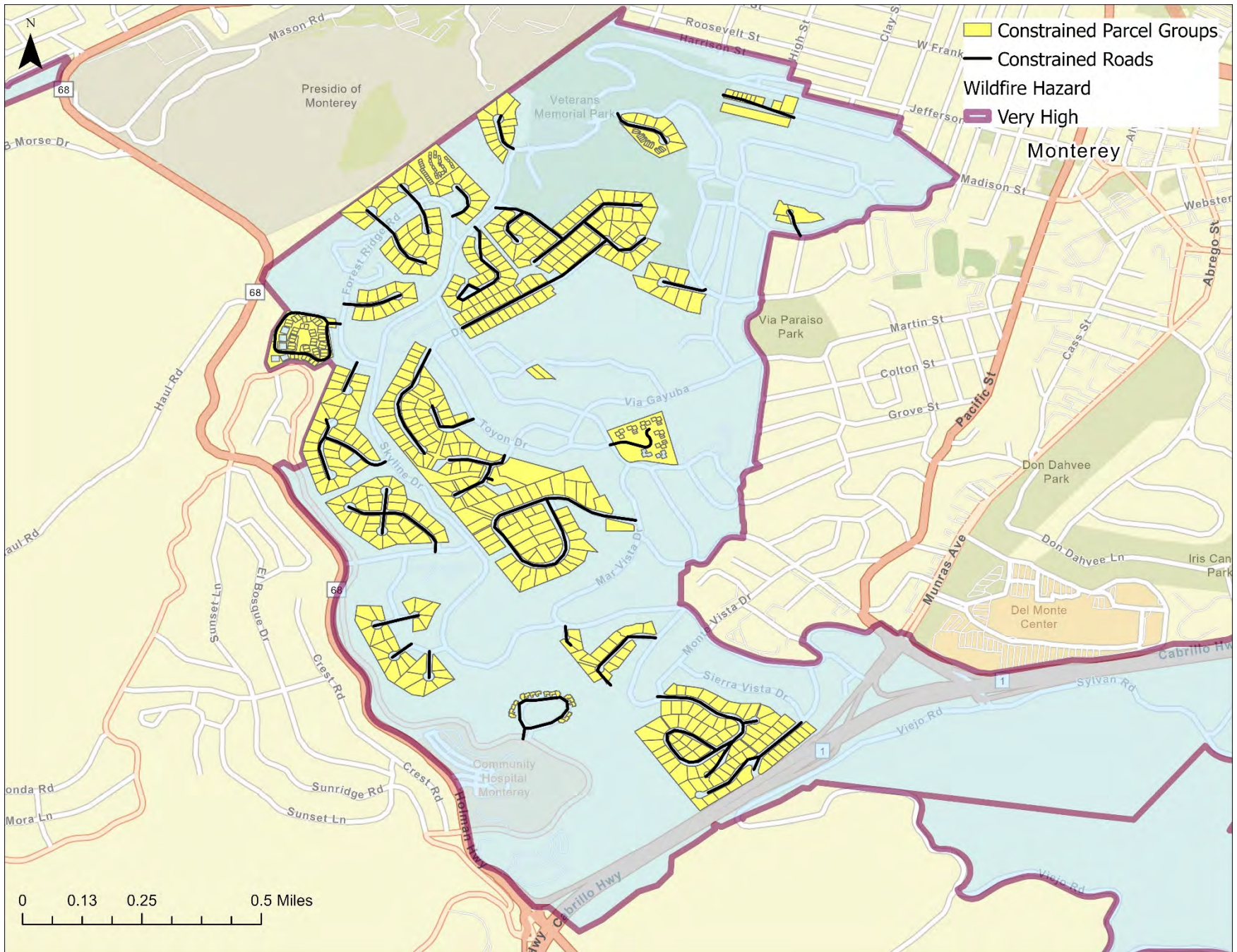




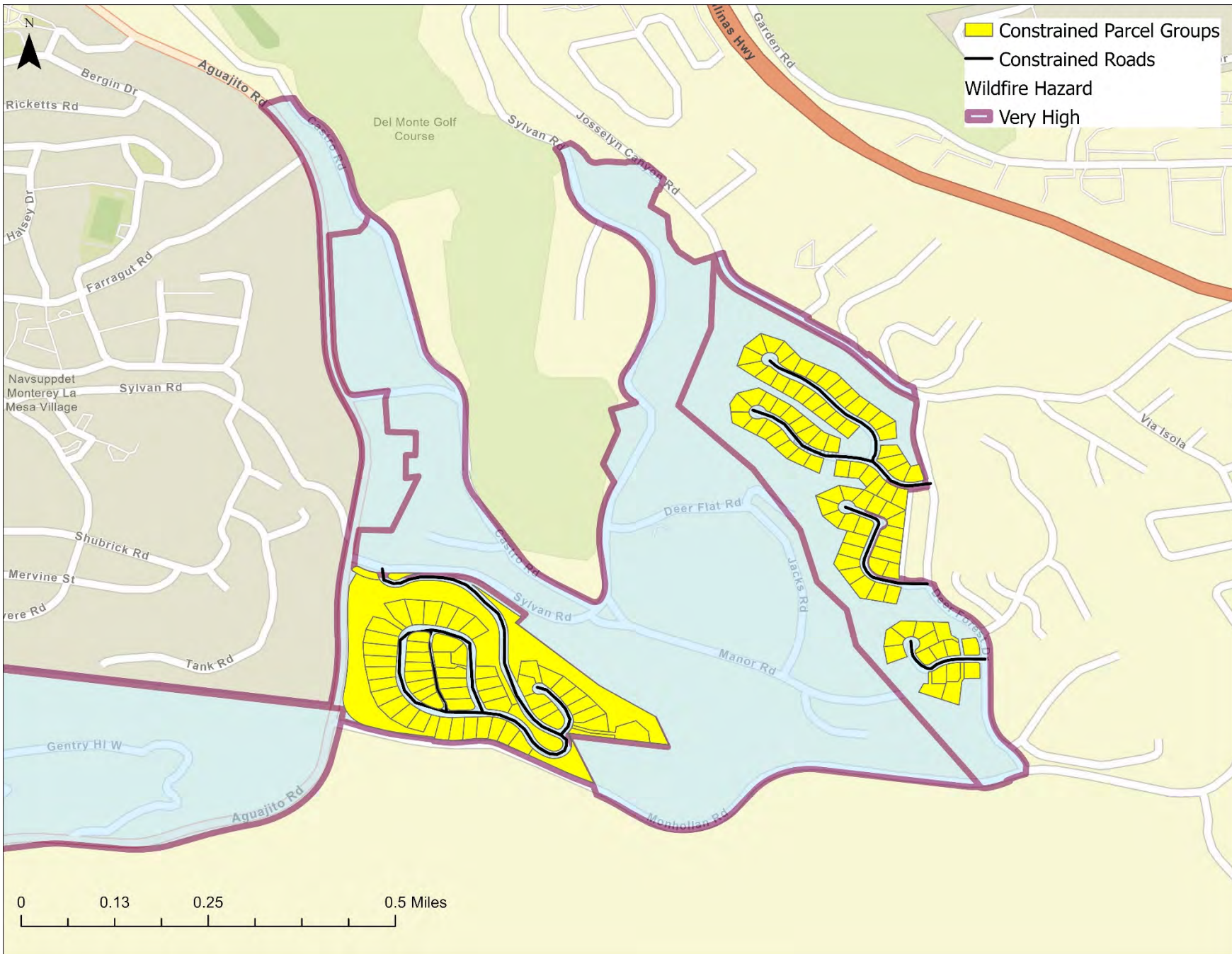
Attachment 3



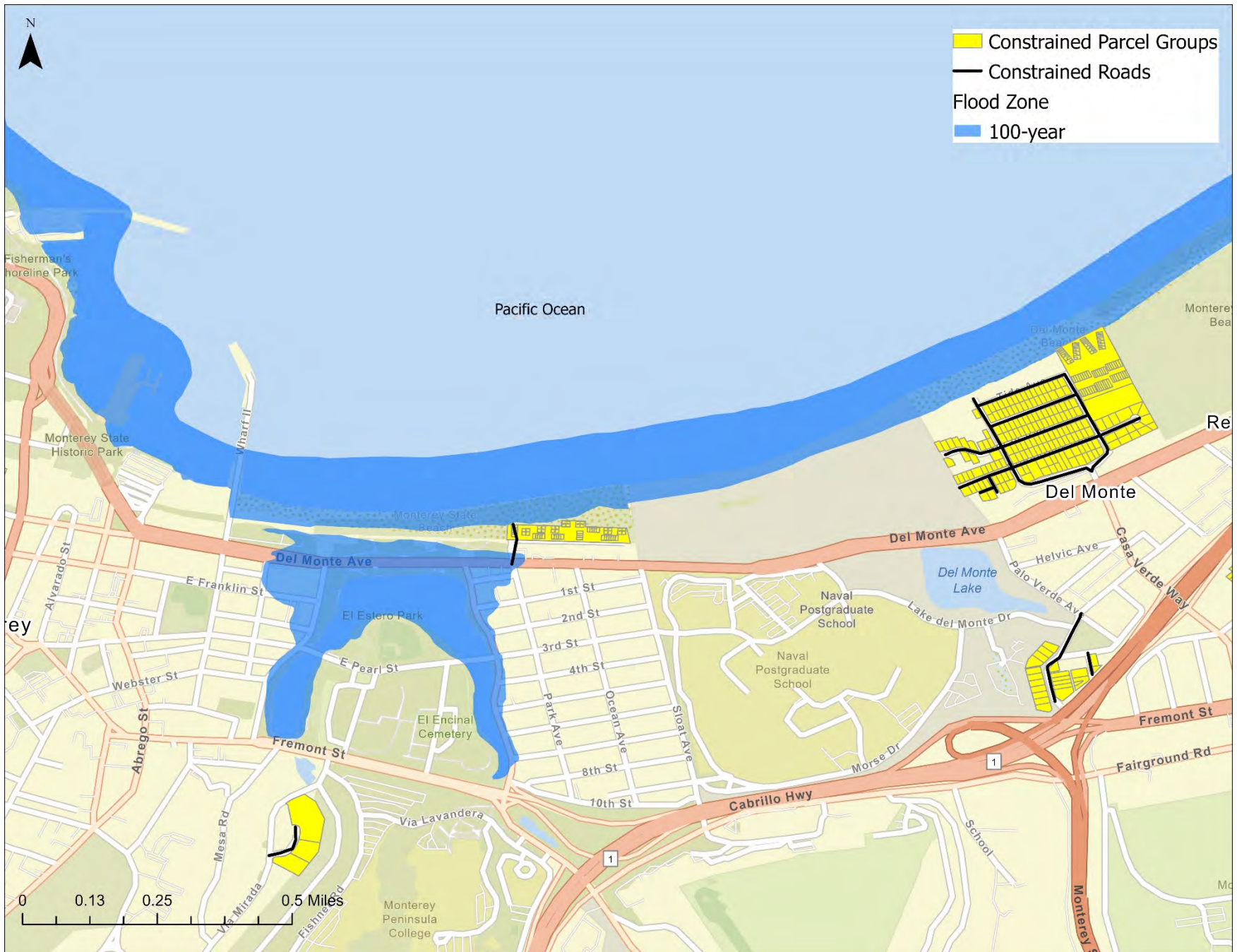
Attachment 4



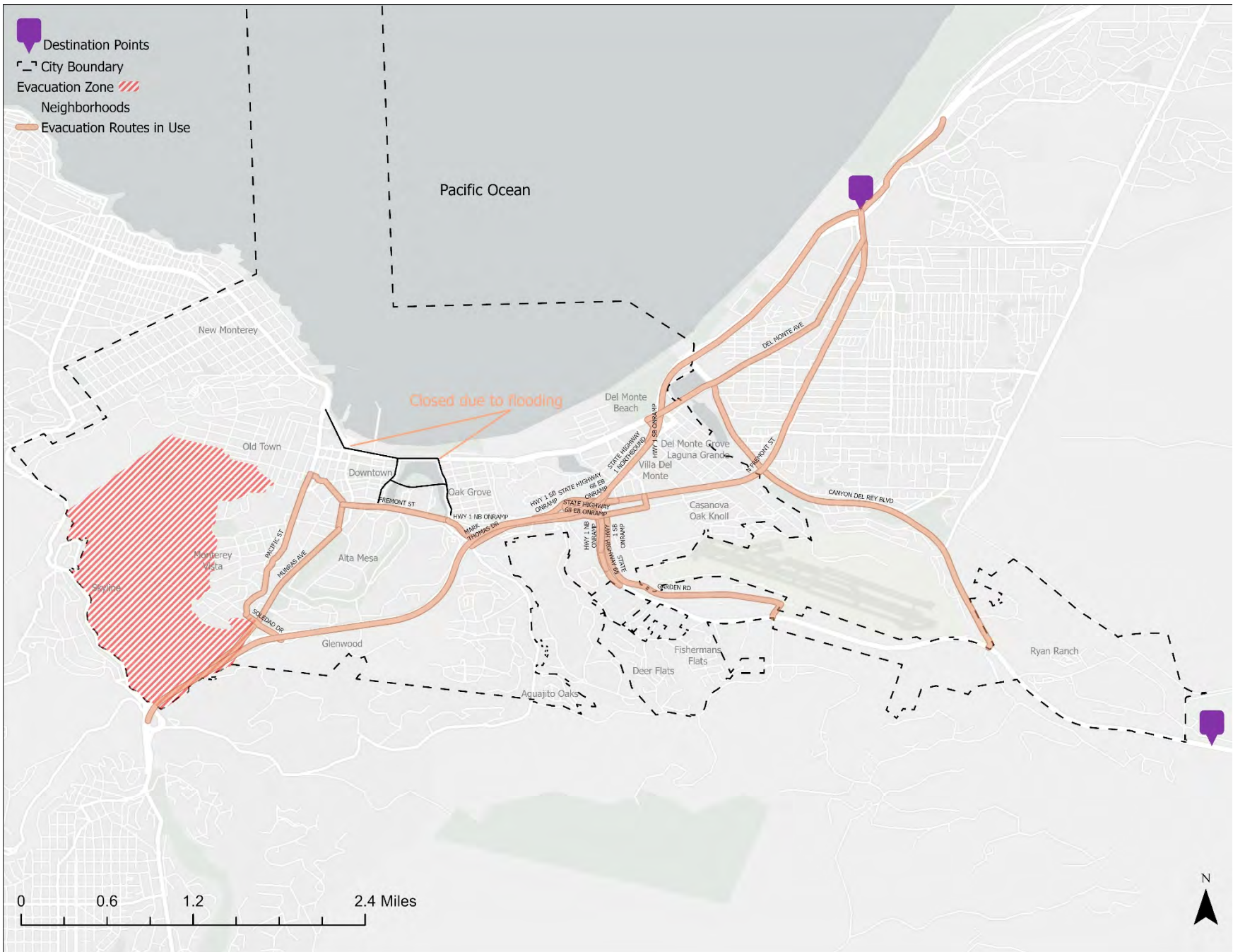
Attachment 5



Attachment 6



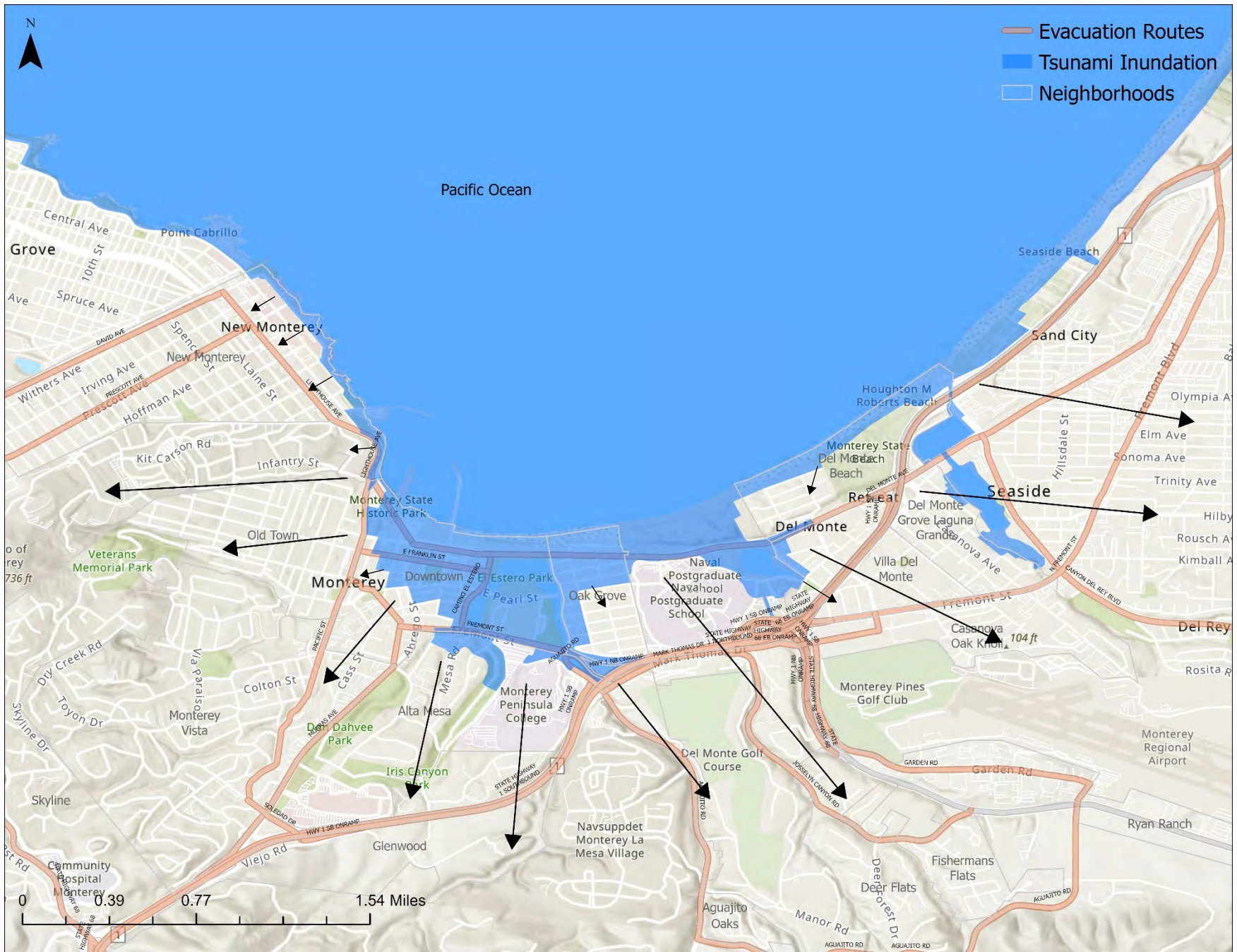
Attachment 7



Attachment 8

# Evacuation Volume / Roadway Capacity Ratio





Attachment 10





**APPENDIX**

# **WATER SUPPLY ASSESSMENT**

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# Water Supply Assessment

For City of Monterey

**DECEMBER 2023**

Prepared by Water Systems Consulting, Inc



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# 1.0 Introduction and Purpose

This Water Supply Assessment (WSA) was prepared on behalf of California American Water (CAW) by Water Systems Consulting, Inc. (WSC). CAW provides water service to the City of Monterey (City) and surrounding communities. This WSA was prepared to satisfy the requirements of California Water Code (CWC) Section 10910 (Senate Bill 221) for the City's Monterey 2031 Project (Project). The Monterey 2031 Project involves updates to the Housing, Land Use, Circulation, and Safety Elements of the City of Monterey General Plan to respond to changing demographics, emerging issues, and new State law. A critical piece of the Project is planning for additional housing to meet the City's assessed share of the projected Regional Housing Needs Allocation (RHNA) for the upcoming planning period from 2023 through 2031. The City provided a written request to CAW to prepare a WSA that accounts for additional RHNA estimates; a copy of the request is provided in Appendix A.

As required by Senate Bill 610 (SB 610), CAW is responsible for assessing whether the total projected water supplies available during average, single dry, and five-consecutive dry water years during a 20-year projection will meet the projected water demand for the Project, in addition to the Monterey service area's existing and planned future uses. A water supplier's Urban Water Management Plan (UWMP) serves as a foundational document for a WSA. The water demands in CAW's *2020 Urban Water Management Plan (2020 UWMP)* were submitted to the California Department of Water Resources (DWR) in June 2021. Since the UWMP was submitted, CAW has continued to review and update its projections to support on-going planning efforts and incorporate California Public Utilities Commission (CPUC) proceeding A.21-11-024.

Additional information from other sources was also incorporated into this WSA to document supplies from all sources, including groundwater and purchased water. Documentation includes identifying and quantifying supply water rights, contracts, and/or entitlements. This WSA includes the following:

- Overview of CAW's water system (Section 2)
- Information on CAW's current and projected water demands in the water service area (Section 2)
- Description of the proposed Project and estimated water demand (Section 3)
- Information on the service area's current and projected water supplies (Section 4)
- Discussion of the Monterey service area water supply reliability and comparison of supplies and demands for average, single dry, and multiple dry years (Section 5)
- Determination of the Monterey water service area water supply sufficiency (Section 6)



## 1.1 Legislation

The City has determined that the Project is subject to review under the California Environmental Quality Act (CEQA) (*Public Resources Code, Section 21000 et seq.*), and the state CEQA Guidelines (*California Code of Regulations, Section 15000 et seq.*). The City has determined that the Project is a “project” as defined in CWC 10912 and has determined that an EIR is required for the Project.

SB 610 amended the Public Resources Code, effective January 1, 2002, to incorporate CWC requirements for certain types of development projects to improve the link between information on water supply availability and certain land use decisions made by cities and counties. SB 610 seeks to promote more collaborative planning between local water suppliers, cities, and counties by requiring detailed information regarding water availability to be provided to the city and county decision-makers prior to approval of specified large development projects.

Under SB 610, water suppliers must prepare WSAs for projects meeting certain project size criteria, such as the Project, and deliver them to local governments for inclusion in any environmental documentation.

## 1.2 Definitions

For the purposes of this WSA, the following defined terms are used:

- **Groundwater production:** The amount of water produced from the Carmel River Aquifer and the Seaside Groundwater Basin groundwater supply sources and put into the distribution system based on metered flows at each well. CAW provided annual groundwater production data for 2021 and 2022 in addition to 2020 UWMP data.
- **Purchased water:** The amount of water purchased from wholesale supply sources and put into the distribution system based on metered flows at each supply connection. CAW purchases water from the Sand City Desalination Plant.
- **Consumption:** The amount of billed metered water consumed by customers.
- **Demand:** The amount of water distributed through the entire water system, which is the sum of water from all sources put into the distribution system. Demand includes non-revenue water, which is equal to the difference between water put into the distribution system and billed consumption.
- **Non-revenue water:** Unmetered water use and losses from the distribution system due to leaks, unauthorized connections, agency use (e.g., system flushing), or theft.
- **Water demand factor:** The calculated amount of water demand per unit (e.g., acre, dwelling unit, etc.) of a specific type of use (e.g., land use, development type, business type, etc.).

## 2.0 Public Water System Overview

CAW operates water systems throughout the state of California. CAW's operations are organized into three Division Offices: the Northern Division; Central Division; and Southern Division. The Central Division includes the Monterey County District, which includes the Monterey Main System and six satellite systems. The District is located in the northwest region of Monterey County, California, and serves most of the Monterey Peninsula, including the cities of Carmel-by-the-Sea, Del Rey Oaks, Monterey, Pacific Grove, Sand City, Seaside, and the unincorporated areas of Carmel Highlands, Carmel Valley, Presidio of Monterey, and Pebble Beach.

This WSA covers the Monterey Main system within the Monterey County District. Figure 2-1 shows the Monterey County District service areas. Since the publication of the 2020 UWMP, the Ryan Ranch and Bishop systems have been merged into the Monterey Main system.

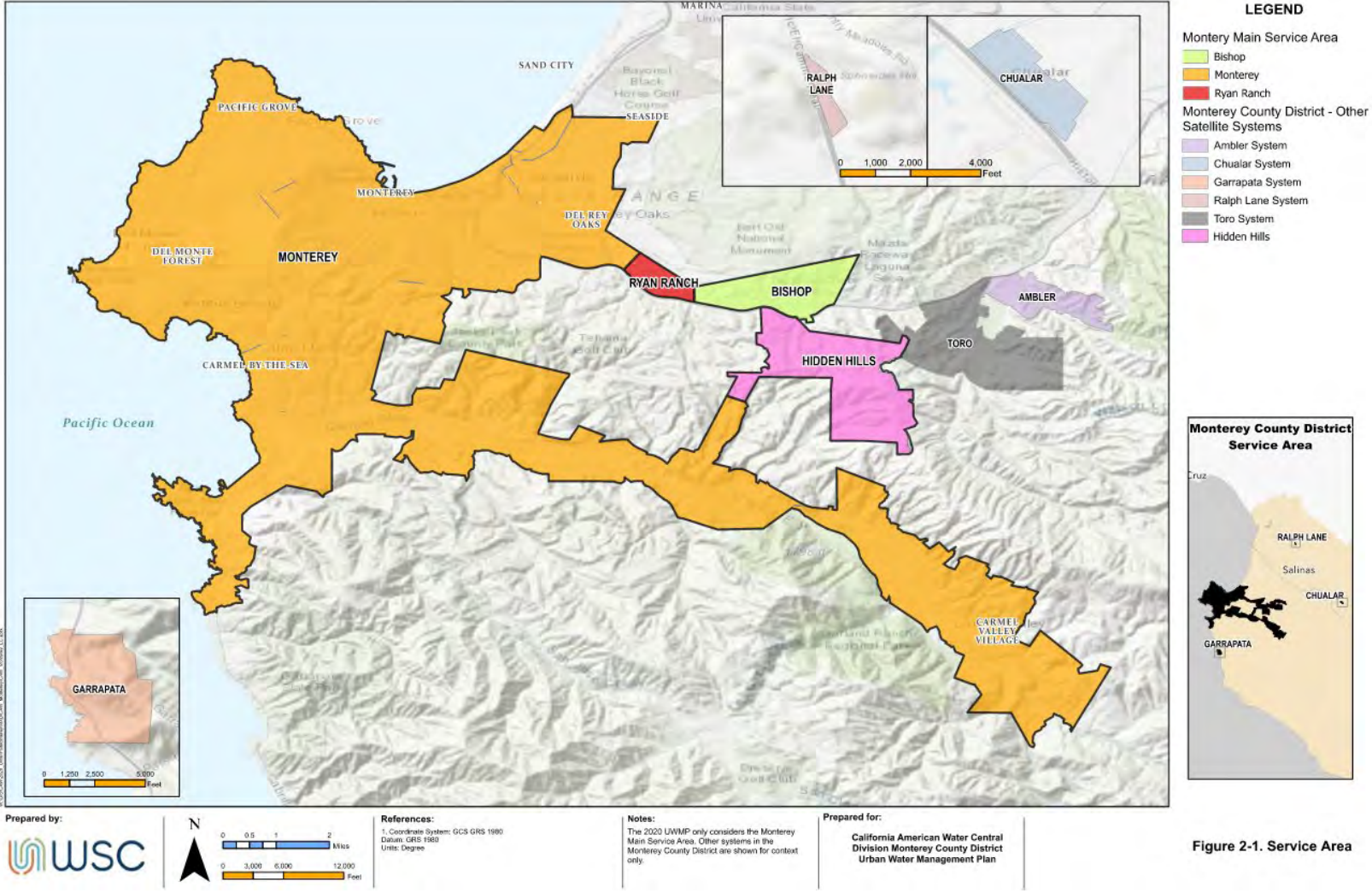


Figure 2-1. Monterey County District's Water Service Areas

## 2.1 Climate

The climate in the study area is characterized by warm summers and mild winters. The proximity to the Pacific Ocean and geologic features results in several climatic zones within the service area. Table 2-1 presents average climate data for the service area, including temperature, rainfall, and reference evapotranspiration (ET<sub>o</sub>). As shown in Table 2-1, the warmest month of the year is September with an average temperature of 60 degrees Fahrenheit (°F), while the coldest month of the year is December with an average temperature of 52°F.

The average annual precipitation in Monterey is 12.7 inches per year, while the Carmel Valley experiences 16.5 inches per year on average. As shown Figure 2-2, the majority of the rainfall occurs in the months of November through March. December through March are the wettest months with an average rainfall of approximately 2.7 inches per month.

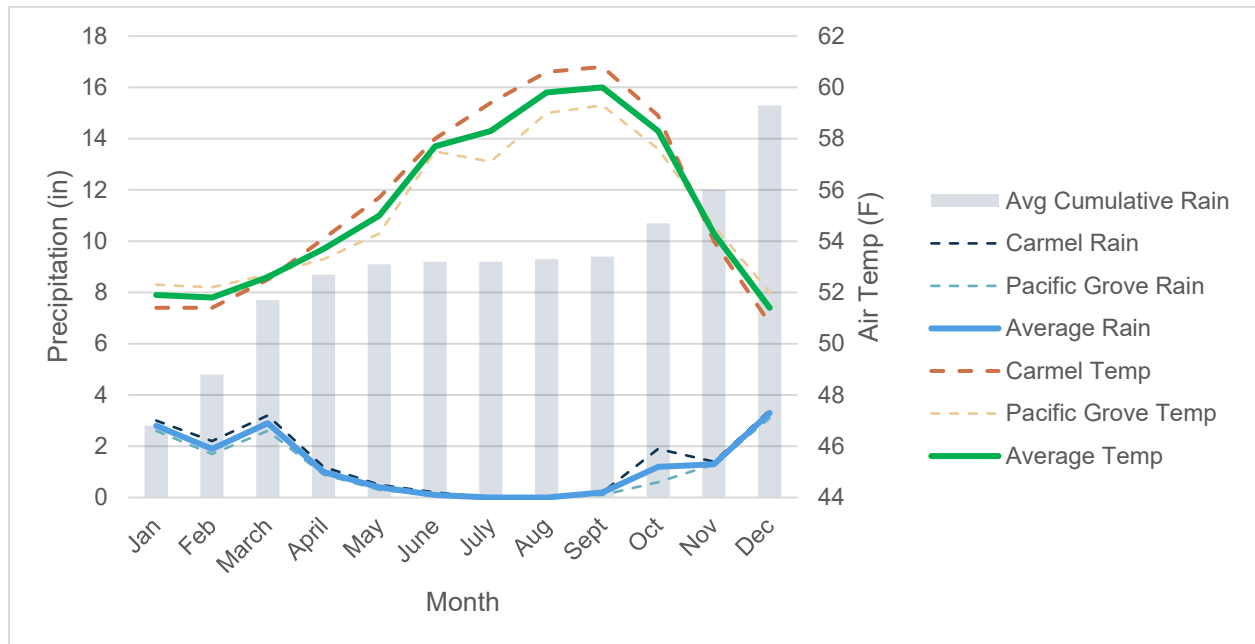


Figure 2-2. Historical Rainfall and Temperature

**Table 2-1. Historical Temperature, Rainfall and Reference Evapotranspiration (ETo) Data**

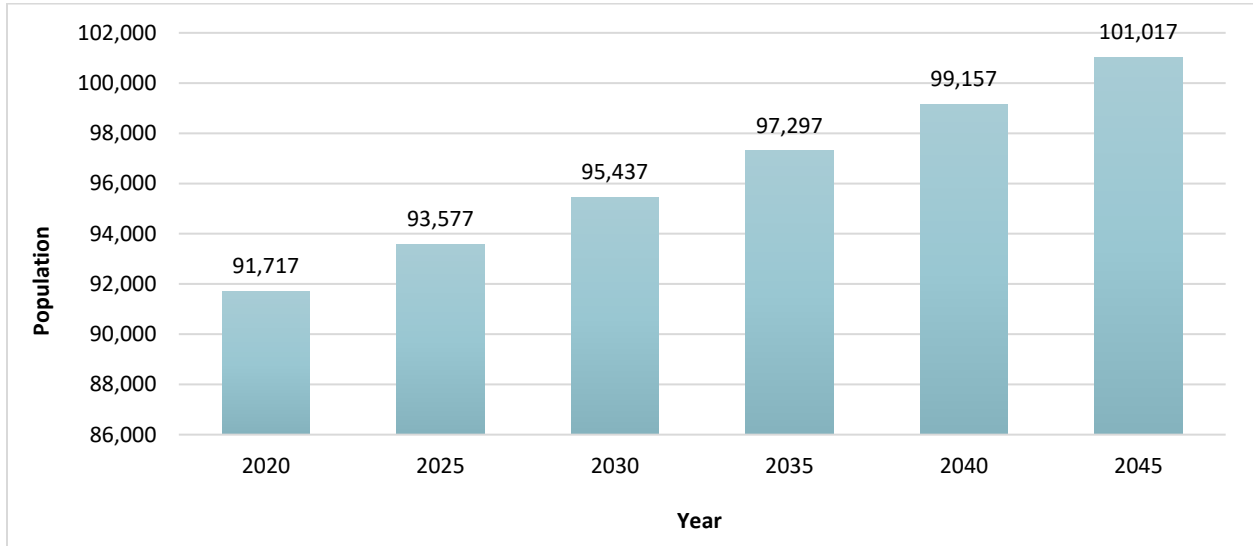
	Pacific Grove	Carmel	Pacific Grove	Carmel	Pacific Grove	Carmel
Month	Average Temperature (°F) <sup>1</sup>	Average Temperature (°F) <sup>2</sup>	Average Precipitation (in.) <sup>1</sup>	Average Precipitation (in.) <sup>2</sup>	Average Standard ETo (in.) <sup>1</sup>	Average Standard ETo (in.) <sup>2</sup>
January	52.3	51.4	2.6	3.0	1.75	1.82
February	52.2	51.4	1.7	2.2	2.40	2.32
March	52.7	52.5	2.6	3.2	3.23	3.38
April	53.3	54.1	0.9	1.2	4.09	4.22
May	54.3	55.7	0.3	0.5	4.49	4.59
June	57.5	58.0	0.1	0.2	4.34	4.97
July	57.1	59.4	0.0	0.0	3.82	4.85
August	59.0	60.6	0.0	0.0	3.45	4.41
September	59.3	60.8	0.1	0.2	3.33	3.99
October	57.6	58.9	0.6	1.9	2.85	3.26
November	54.6	54.0	1.3	1.4	1.97	2.07
December	52.0	50.8	3.1	3.4	1.6	1.52

## Notes:

1. CIMIS weather station 193 in Pacific Grove (2011-2023) <http://www.cimis.water.ca.gov/>
2. CIMIS weather station 210 in Carmel (2010-2023) <http://www.cimis.water.ca.gov/>

## 2.2 Service Area Population

The current and projected populations for the water service area are shown in Figure 2-3. Estimates of future population were developed using the regional growth forecast prepared by the Association of Monterey Bay Area Governments (AMBAG). The population projections were based on AMBAG data for the years 2020 and 2040 for the geographic areas served by CAW. Linear growth in population was assumed from 2020 through 2040 and extended through 2045.



**Figure 2-3. Historical, Current and Projected Population**

### 2.2.1 Other Demographic Factors

The land use within the study area includes residential, commercial, institutional, and open space areas. The regional growth forecast prepared by AMBAG included an estimated total employment in the Monterey service area for 2020 and 2040. Linear growth in employment was assumed from 2020 through 2045 and extended through 2045. The rate of growth in employment was used to estimate the rate of growth in water use for non-residential development.

## 2.3 Water Demand

The 2020 UWMP includes water demand projections through 2045. Water use for residential development was estimated using the projected population increase from the AMBAG data and an estimate of residential use in gallons per capita per day (GPCD). For non-residential customers, water use was anticipated to increase at the rate of employment growth forecasted by AMBAG. The actual number of employees was not used in the projection; rather, non-residential water use was assumed to increase at the same rate as the estimated employment in the study area. The water demands for the Project were not explicitly accounted for in the 2020 UWMP.

CAW continuously monitors and updates its projections of future demands and supplies as necessary to support on-going planning efforts. Since the 2020 UWMP was published CAW has incorporated new data into its projections and updated certain categorization of historical water use in the 2020 UWMP. In order to establish an updated basis for continued planning efforts, CAW identified the following updates to the demand projections:

1. The measured production from the Begonia Iron Removal Plant (BIRP) was used in the 2020 UWMP to quantify the volume of water entering the distribution system. However, using the total production from the wells gives a more accurate estimate of the portion of water that will be lost to leaks or unmetered use and thus the total demand. This update to projected total demand increases the portion of future total production that is expected to be attributed to water loss.
2. The 400 AFY that had been projected for Fire Service Demand was based on historical data for that use category. CAW subsequently determined that the applicable meters had not registered that much consumption, and that much of the water thought to be used in this category was actually non-revenue water; the water was produced and pumped into the system, but it did not flow through any customer meter and was lost to leaks or unmetered use. Essentially, the Fire Service Demand should be combined with the losses and categorized as total non-revenue water. Going forward, the water used for fire service is included as nonrevenue water in the non-residential demand category. Because this volume (400 AFY) was previously included as Fire Service Demand, the shift of the 400 AFY to nonrevenue water has no impact on the total projected demand.
3. The 2020 UWMP population growth is based on AMBAG data for the years 2020 and 2040 for the geographic areas served by CAW. Linear growth was assumed through 2040 and extended through 2045. For future planning, this same linear growth was extended through 2050.

Future demands for this study were projected by evaluating monthly historic trends in customer water usage and incorporating estimated future changes in water use due to behavioral changes, new water use regulations, projected growth, tourism water use, and employment projections by AMBAG. Water use for residential customers was approximately 55.2 GPCD for the period from 2018 through 2022, including indoor and outdoor use. It was anticipated that residential use could increase by 10% to 60.7 GPCD by 2030 when a new supply source is online and is expected to reduce the need for usage restrictions. For non-residential customers, water use was anticipated to increase at the rate of employment growth forecasted by AMBAG. Nonresidential demand includes the commercial, industrial, other public authority, company accounts, miscellaneous sales, sale for resale, fire service, and water loss categories, and is calculated as total water production minus residential metered sales.

Table 2-2 presents baseline and projected water demands through 2050. In addition to residential and non-residential development, additional categories are included to

represent unique factors to the service area that are expected to affect future demands. These include:

- **Pebble Beach Entitlements.** The Pebble Beach Company has entitlements to approximately 325 AFY that can be sold to other Del Monte Forest property owners. These entitlements constitute an existing obligation by CAW to serve the properties when developed. This demand is expected to be phased in over time once a new supply is online.
- **Tourism Rebound.** The region has historically been a popular destination for business and leisure travelers. In recent years, an economic slowdown contributed to reductions in visitor activity. The potential water demand increase due to a tourism bounce-back has been estimated by the CPUC as 500 AFY. Once a new source of supply is available, hotels and visitor facilities can be built, remodeled, and expanded.
- **Lots of Record.** For residential development, a backlog of properties has accumulated that are not able to be developed because of limited water supply. The demand for these Lots of Record (LOR) has been calculated as 1,180 AF. The pace at which these properties could be developed if water were available would depend on economic factors and government policies.
- **Regional Housing Needs Allocation.** The City's request for a WSA identified an additional need for 3,654 housing units within the City. It is estimated that 6,213 housing units will be required for all areas within the Monterey service area by the end of the planning period in 2031. At an average density of approximately two persons per housing unit, the expected demand would be 0.12 AFY per unit, or a total of 745 AFY.



Table 2-2. Historical and Projected Water Demands

<b>Customer Class</b>	<b>Baseline (2018- 2022)</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>
<b>Residential Demand (AF)</b>	5,673	5,788	6,493	6,620	6,746	6,873	6,999
<b>Non-Residential Demand (AF)</b>	3,773	3,932	4,091	4,250	4,409	4,569	4,728
<b>Other Future Demand (AF)</b>							
<b>Pebble Beach Entitlements</b>		0	65	130	195	260	325
<b>Tourism Rebound</b>		250	500	500	500	500	500
<b>Legal Lots of Record</b>		0	300	520	740	960	1,180
<b>RHNA Demands</b>		0	370	745	745	745	745
<b>Total Demands (AFY, nearest ten)</b>	<b>9,450</b>	<b>9,970</b>	<b>11,820</b>	<b>12,760</b>	<b>13,340</b>	<b>13,910</b>	<b>14,480</b>

## 3.0 Project Description

The Monterey 2031 Project involves updates to the Housing, Land Use, Circulation, and Safety Elements of the City of Monterey General Plan to respond to changing demographics, emerging issues, and new State law. A critical piece of the Project is planning for additional housing to meet the City's assessed share of the projected Regional Housing Needs Allocation (RHNA) for the upcoming planning period from 2023 through 2031. The City is required to plan to accommodate 3,654 new housing units over the planning period, including 1,177 very low-income units, 769 low-income units, 462 moderate income units, and 1,246 above-moderate units. The Monterey City Council has approved an inventory of sites for housing that provide a total projected capacity of 5,802 new units, sufficient to provide a buffer to meet the RHNA requirements. This buffer is intended to ensure that lack of available sites does not constrain the City's ability to meet the goal of 3,654 new housing units.

A project description for the Monterey 2031 Project is included in the City's request for a WSA, included in Appendix A.

Future demands for the Project were estimated as part of the system-wide demand projections described in Section 2. The RHNA demands in Table 2-1 were based on the addition of 6,213 housing units for all areas within the Monterey service area by 2031. The average demand per housing unit was assumed to be 0.12 acre-feet per year. As shown in Table 2-2, this RHNA demand is considered separately from the projected demand based on other factors, such as lots of record.

As stated in Section 2, the Project is assumed to be complete by 2031. Therefore, the total demand for the Project is 745 acre-feet (AF) and is assumed to occur between 2023 and 2035 for the purposes of this WSA.

## 4.0 Water Supplies

### 4.1 Water Sources

CAW's current sources of supply for the Monterey Main System are:

- Groundwater from Upper and Lower Carmel Valley Aquifers;
- Groundwater from the Seaside Groundwater Basin and its sub-basins;
- Aquifer Storage and Recovery (ASR);
- Pure Water Monterey, a water recycling project;
- Sand City Desalination Plant; and
- A Future Ocean Desalination Plant as part of the Monterey Peninsula Water Supply Project (MPWSP).
- Table 13 Water, or diversions of flow from the Carmel River under Permit 21330 issued by the State Water Resources Control Board (SWRCB). This source is vulnerable to drought conditions and climate change, and it is not considered to be a dependable source.

The sources of supply are detailed further in the following sections.

#### 4.1.1 Groundwater

##### 4.1.1.1 Carmel River Aquifer

The Carmel Valley Aquifer is located along the Carmel River, southeast of the Monterey Peninsula. The Monterey Main system's service area overlies the Carmel Valley Aquifer. The aquifer is comprised of the alluvial deposits that form the valley floor underlying the Carmel River. The aquifer is identified as a high-priority basin and withdrawals are regulated through the State Water Resource Control Board (SWRCB).

The Monterey Main System pumps from both the Upper and Lower Carmel River Aquifer. State Board Order 95-10 has placed seasonal limits on the allowable production from the wells in the Upper Carmel Valley Aquifer. The wells are operated in the winter months (November through April) and when the Carmel River flows exceed 40 cubic feet per second (cfs). If the river flow at the Don Juan Bridge is less than 20 cfs for more than 5 consecutive days, a "low flow period" is triggered and the upper valley wells cannot be used. The wells in the Upper Carmel River Aquifer are of good quality and discharge directly into the distribution system with disinfection at the wellhead.

The wells in the Lower Carmel River Aquifer do not have seasonal production limits. The wells pump into a raw water transmission main, which transfers groundwater to the

Begonia Iron Removal Plant (BIRP) for treatment and removal of iron and manganese before being pumped into the distribution system.

CAW's extractions from the Carmel Valley Aquifer for the past five years are shown in Table 4-1 for reference. Future supply from this source is limited to 3,376 AFY as authorized by the SWRCB.

**Table 4-1. Carmel Valley Aquifer Historical Groundwater Extractions, AFY**

	2018	2019	2020	2021	2022
<b>Carmel Valley Aquifer<sup>1</sup></b>	5,954	6,249	5,317	5,305	3,535

Note:

1. The Carmel River Aquifer volume excludes water that was injected into the Seaside Basin for ASR. This volume is counted as ASR storage and supply.

#### 4.1.1.2 Seaside Groundwater Basin

The Seaside Groundwater Basin (SGWB) overlies and is a subbasin to the Salinas Groundwater Basin. The Salinas Valley Basin is made up of eight subbasins that span Monterey County and northern San Luis Obispo County. The Monterey and Laguna Seca Systems are located within and utilize water from the Seaside Area Subbasin of the Salinas Valley Groundwater Basin.

The Seaside Area Subbasin is bounded by 180/400 Foot Aquifer subbasin to the north, the Corral de Tierra sub-basin to the south and east, and by the Pacific Ocean to the west. The total surface area of the aquifer covers approximately 19 square miles. The southern boundary of the Seaside Groundwater Basin follows the Chupines fault, a relatively impermeable formation uplifted to near sea level. The western boundary of the basin extends to the shoreline. The eastern boundary of the basin is defined by the flow divide in the Paso Robles aquifer, which approximately coincides with surface drainage between the Canyon del Rey and El Toro Creek watersheds. Finally, the northern boundary of the basin also follows a groundwater flow divide from the Salinas Valley groundwater basin.

Historically, seawater intrusion had not been observed in existing monitoring and production wells in the Seaside Basin. In 2020 increased chloride concentrations were reported in two monitoring wells for the first time, which may be a precursor to seawater intrusion. The 2019 Updated Water Quality, Seawater Intrusion Analysis Report, and Basin Management Action Plan found that despite recent pumping at levels less than the decision-established natural safe yield of 3,000 AFY, water levels in some portions of the Basin are continuing to drop. Water levels and chloride concentrations are expected to improve once a new supply source is secured for the Peninsula and CAW can reduce its pumping from the Seaside Groundwater Basin.

Similar to the Carmel River, the Seaside Basin is vulnerable to climate impacts, notably after years of over pumping. The main climate vulnerability is continued seawater

intrusion in the basin as seawater levels rise, plus increased agricultural water use and more severe and frequent droughts that may result in over pumping and further stress the basin. CAW is expected to significantly reduce reliance on both the Carmel River and Seaside Basin in the future as additional sources come online.

The CAW Monterey Main System has a total entitled right of 1,474 AFY from the Seaside Groundwater Basin. However, CAW has an agreement in place not to pump 700 AFY of this right for 25-years once a new supply source is operational. Because a new supply source is expected to be operational, CAW's allocation from the Seaside Basin will be reduced to 774 AFY (1,474 AFY minus 700 AFY) from 2030 to 2055.

CAW's extractions from the SGWB for the past five years are shown in Table 4-2 for reference. Beginning in 2030, future extractions are expected to be limited to 774 AFY, as discussed above.

**Table 4-2. Seaside Groundwater Basin Aquifer Historical Groundwater Extractions, AFY**

	2018	2019	2020	2021	2022
<b>Seaside Groundwater Basin Aquifer</b>	2,296	2,378	2,802	858	1,597

#### 4.1.2 Aquifer Storage and Recovery

The Aquifer Storage and Recovery (ASR) program allows for the storage of excess Carmel River flows in the Seaside Groundwater Basin Coastal Subbasin during the months of December through May for later extraction during dryer summer months, historically between July and November. The ASR program is a joint program between CAW and the Monterey Peninsula Water Management District (MPWMD). Because diversions for the ASR system are contingent on maintaining minimum daily instream Carmel River flows, and precipitation and streamflow can vary substantially from year to year, the actual supply from the ASR project can vary substantially. In wet years with high streamflow, CAW is able to inject a significant volume of water for ASR.

Table 4-3 and Figure 4-1 shows the historic yield from ASR. Historically, the yield from ASR has varied significantly based on the hydrology and the available storage. The project has not been effective at building long term storage, and the average annual volume stored since 2006 is 84 AFY with multiple years of no stored water.

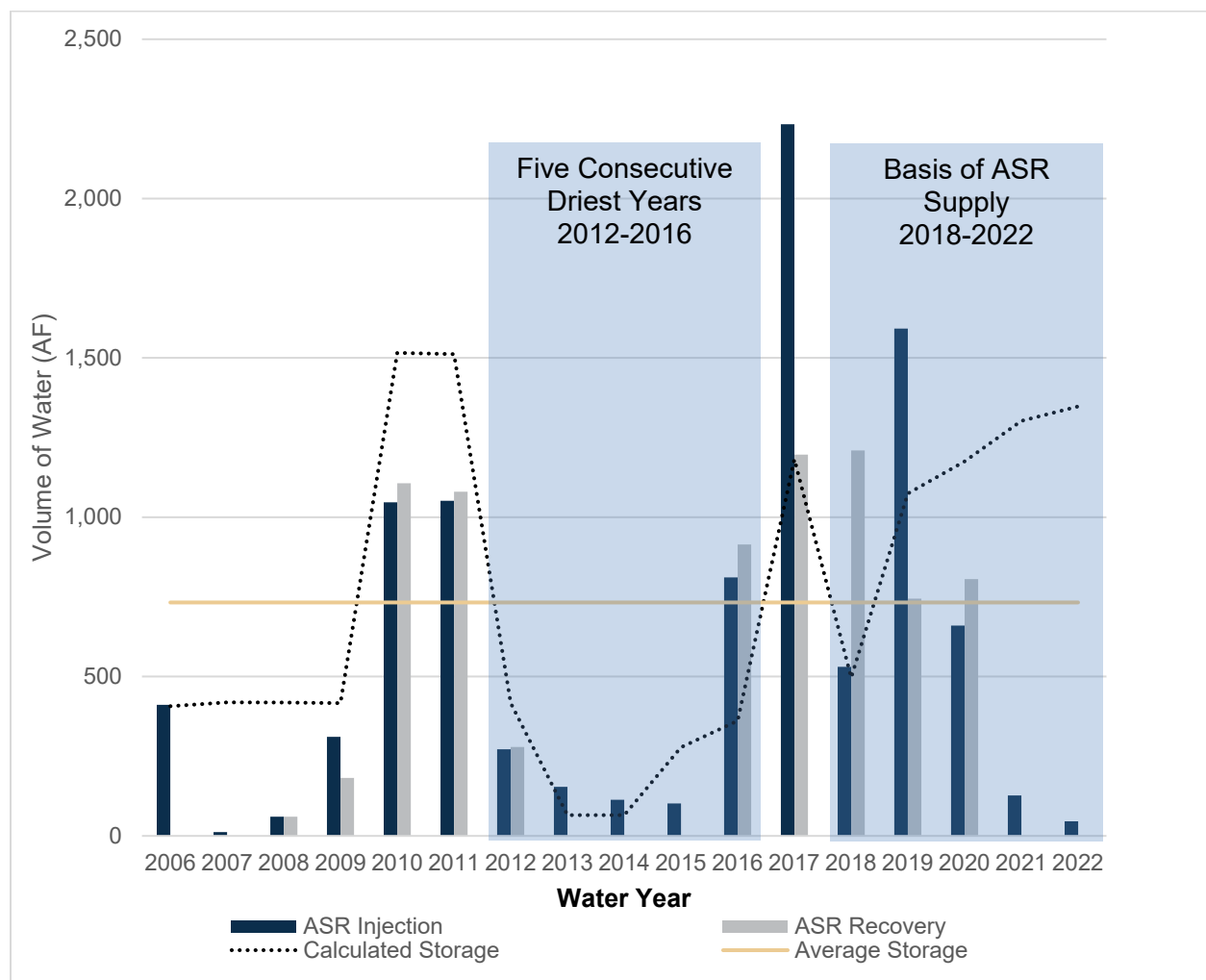
In most normal years the injection volume from seasonal Carmel River flows beyond CAW's entitled rights is only slightly greater than the extraction volume, and there is little to no excess supply available to build ASR storage. CAW is projected to build ASR storage only in wet years. In dry years, if storage is available, CAW could draw down the ASR storage when the excess Carmel River flows are unavailable, but it is not anticipated to last through a multi-year drought based on the previous drought. Additional ASR storage would allow the ASR supply to last longer in a multi-year drought, though

increased demands and climate impacts, including shifting rainfall patterns and hotter summers, will increase the difficulty of building ASR storage.

The average annual ASR extraction volume over the historic period of operations was 559 AFY. The projected ASR supply for future years is estimated to be 470 AFY with 90% reliability.

**Table 4-3. Historic Supply from ASR, AFY**

	2018	2019	2020	2021	2022
<b>ASR Extraction</b>	1,210	744	806	0	0



**Figure 4-1. Historical ASR Injection and Recovery**

## 4.2 Surface Water

The Monterey service area does not currently utilize surface water supplies.

## 4.3 Transfer Opportunities

CAW has completed interconnections between the Monterey Main System and the Ryan Ranch and Bishop System, which are now both supplied from the Monterey Main System. CAW is also working to complete an interconnection between the Monterey Main System and the Hidden Hills System. The interconnections provide greater supply reliability for all systems.

## 4.4 Recycled Water

Monterey One Water (M1W), previously Monterey Regional Water Pollution Control Agency, operates a treatment plant that produces recycled water. The plant treats all collected wastewater through secondary treatment. Some secondary treated water is treated to a higher degree including Title 22 tertiary disinfection level for raw food crop irrigation or purified using advanced treatment. The tertiary treated water is used to irrigate edible food crops.

MPWMD and M1W operate the Pure Water Monterey (PWM) Project under which CAW is contracted to receive 3,500 AFY of advanced-treated recycled water for the Seaside Groundwater Basin. Table 4-4 shows the historic volume of water produced under the PWM Project (only 3,500 AFY of this amount was available to CAW in 2022).

**Table 4-4. Pure Water Monterey Historic Supply, AFY**

	2021	2022
<b>Pure Water Monterey Production</b>	3,097	4,042

## 4.5 Desalination

The Sand City Desalination Plant includes a reverse osmosis desalination plant, water storage tanks, and a connection to CAW's Monterey Main system. The desalination facility is designed to produce 300 AFY, but it typically produces closer to 190 AFY. CAW has an allocation of 94 AFY from this facility, and the rest is reserved for future development. CAW may only use more than 94 AFY until the future developments use the remaining supply. Because any supply beyond 94 AFY is reserved for the City, it cannot be relied upon as a future water supply for CAW.

## 4.6 Future Water Projects

### 4.6.1 Pure Water Monterey Expansion

PWM provides purified recycled water for injection into the Seaside Groundwater Basin and extraction for potable use in Monterey Main. CAW has a water purchase agreement to secure water from the project, which could deliver 3,500 AFY of advanced-treated recycled water for injection to the Seaside Groundwater Basin. The advanced treated recycled water mixes with the existing groundwater and is pumped as a potable supply source. PWM is a key component of CAW's MPWSP to reduce diversions from the Carmel River and will serve as a key component of the future water supply for the Monterey Peninsula.

Phase 1 of PWM began operating at the end of 2019. Phase 2 of the project is envisioned to deliver an additional 2,250 AFY of water to the Seaside Basin that would be available to CAW. However, the PWM Expansion has not been proven to provide the full 2,250 AFY, particularly during dry years. A 2022 analysis determined that the PWM Expansion can be reasonably expected to provide 2,001 to 2,234 AFY during normal conditions and 0 to 1,100 AFY during drought conditions.

### 4.6.2 Monterey Peninsula Water Supply Project Ocean Desalination

The proposed MPWSP Desalination Plant would produce up to 6,252 AFY of potable water. The first phase of the plant approved by the California Coastal Commission in November 2022 would have a capacity of 4.8 million gallons per day (mgd) and would produce approximately 5,372 AFY. A future second phase would raise the capacity to 6.4 mgd or approximately 6,252 AFY.

The desalination plant would be constructed near the Monterey One Water Regional Treatment Plant (MOWRTP). It would treat seawater that is filtered through the ocean floor, then collected through slant wells and piped to the desalination plant. The slant well approach would draw water from under the sea floor past the average high tide line and would avoid the impacts to marine life posed by open ocean intakes.

At the plant, seawater would be treated using various treatment technologies including reverse osmosis. Brine would be blended with other treated effluent and discharged to the ocean via the existing outfall at MOWRTP. This report assumes that the first phase of the MPWSP Desalination Plant will be operational by 2030, and that the second phase will be operational by 2035 in order to serve additional projected demand.

## 4.7 Water Supply Summary

CAW's current sources of supply for the Monterey Main System are mostly from groundwater: the Carmel River Aquifer and the Seaside Groundwater Basin. These sources provided approximately 64% of the system's water supply in the baseline window of 2018 through 2022. As proposed projects are completed in the future, it is anticipated



this percentage will decrease to 25% as the MPWSP Ocean Desalination Plant and the PWM Phase 2 projects are completed.

Projected supplies are summarized in Table 4-5.

**Table 4-5. Water Supplies –Projected (AFY)**

Water Supply	2025	2025	2030	2030	2035	2035	2040	2040	2045	2045
	Normal	Drought	Normal	Drought	Normal	Drought	Normal	Drought	Normal	Drought
<b>Carmel River Aquifer</b>	3,376	3,376	3,376	3,376	3,376	3,376	3,376	3,376	3,376	3,376
<b>Seaside Groundwater Basin</b>	1,474	1,474	774	774	774	774	774	774	774	774
<b>Aquifer Storage and Recovery<sup>2</sup></b>	470	0	470	0	470	0	470	0	470	0
<b>Sand City Desalination</b>	94	94	94	94	94	94	94	94	94	94
<b>PWM Phase 1<sup>3</sup></b>	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
<b>PWM Expansion<sup>3</sup></b>	0	0	2,001 – 2,234	0 – 1,100	2,001 – 2,234	0 – 1,100	2,001 – 2,234	0 – 1,100	2,001 – 2,234	0 – 1,100
<b>PWM Reserves<sup>4</sup></b>	0	0	0	0 - 775	0	0 - 775	0	0 - 775	0	0 - 775
<b>MPWSP Ocean Desalination Project</b>	0	0	5,372	5,372	6,252	6,252	6,252	6,252	6,252	6,252
<b>Low Range Year Total<sup>5</sup></b>	<b>8,914</b>	<b>8,444</b>	<b>15,587</b>	<b>13,116</b>	<b>16,467</b>	<b>13,996</b>	<b>16,467</b>	<b>13,996</b>	<b>16,467</b>	<b>13,996</b>
<b>High Range Year Total<sup>5</sup></b>	<b>8,914</b>	<b>8,444</b>	<b>15,820</b>	<b>14,991</b>	<b>16,700</b>	<b>15,871</b>	<b>16,700</b>	<b>15,871</b>	<b>16,700</b>	<b>15,871</b>

## Notes:

1. Drought conditions consider multiple dry consecutive years
2. ASR availability is determined to be 470 AFY with 90% reliability (California American Water Company, 2022)
3. Assumes during normal year PWM Project delivers 3,500 AF and PWM Expansion can deliver 2,001 – 2,234 AF based on assessment of source water availability. During drought years the assumption is PWM Project delivers 3,500 AF but PWM Expansion on low end is zero due to source water availability during a multi-year drought and reserves are not established or used already, and on high end 1,100 AF to meet the minimum Water Guarantee of 4,600 AF from both PWM Project and PWM Expansion
4. During a multi-year drought it is assumed that PWM Reserves are used to offset some of the resulting shortfall if available. The Amended and Restated WPA requires Operational and Drought Reserves of 2,875 AF and 1,000 AF, respectively, for a total of 3,875 AF. This analysis assumes that 775 AF will be available per year from Operational and Drought Reserves over a 5-year drought period.
5. This table does not take into account a 10% contingency buffer for supply.

## 5.0 Water Supply and Demand Analysis

### 5.1 Water Supply Management

In general, groundwater supply is less vulnerable to seasonal and climatic changes than surface water. Natural groundwater supply estimates are based on long-term averages, which account for inconsistency in natural supplies. CAW's future withdrawals from the Carmel River Aquifer and the Seaside Groundwater Basin are limited by regulatory orders and water rights agreements.

The ASR Program allows for the storage of excess Carmel River flows in the Seaside Groundwater Basin Coastal Subbasin for later extraction during summer months. Diversions for the ASR system are contingent on maintaining minimum daily instream Carmel River flows, and precipitation and streamflow can vary substantially from year to year. Therefore, the actual supply from the ASR project can vary substantially. CAW is projected to build ASR storage only in wet years. In dry years, if storage is available, CAW could draw down the ASR storage when the excess Carmel River flows are unavailable, but it is not anticipated to last through a multi-year drought based on the previous drought. Additional ASR storage would allow the ASR supply to last longer in a multi-year drought, though increased demands and climate impacts, including shifting rainfall patterns and hotter summers, will increase the difficulty of building ASR storage. The ASR Program is a relatively small percentage (3-4%) of the system's total supply and will have a minimal impact on the system's supply reliability in normal and dry years. Supply is considered to be zero in dry and multiple dry year conditions.

Water from the Sand City Desalination plant is used year-round at the same rate. Water from PWM and the future ocean desalination plant are assumed to be available year-round and in all year types as well.

### 5.2 Year Type Characterization

The basis for the "year type" is determined from the single-driest and multiple-driest years using precipitation data (2011-2023) from CIMIS using the Pacific Grove and Carmel stations. Even though precipitation is variable, groundwater supply estimates are based on long-term averages and established pumping limits, which account for these variabilities. Therefore, CAW's groundwater and desalination sources are assumed to be 100% available in single-dry and multiple-dry year conditions.

Per SB 610 requirements, CAW has evaluated reliability for an average year, single-dry year, and five-consecutive-dry-years period. The UWMP Act defines these years as:

- **Average Year.** This condition represents the water supplies a supplier considers available during normal conditions. This could be a single year or averaged range of years that most closely represents the average water supply available.
- **Single-Dry Year.** The single dry year is recommended to be the year that represents the lowest water supply available. The single lowest year of precipitation was 2013, with 3.9 inches per year.
- **Five-Consecutive-Years Drought.** The driest five-year historical sequence for the supplier, which may be the lowest average water supply available for five years in a row. The lowest five years of precipitation was 2012 to 2016, with an average of 11.6 inches per year.

## 5.3 Water Supply Reliability

Generally, the groundwater supply estimates are less vulnerable to seasonal and climatic changes than surface water. Natural groundwater supply estimates are based on long-term averages, which account for inconsistency in natural supplies. CAW's future withdrawals from the Carmel River Aquifer and the Seaside Groundwater Basin are limited by regulatory orders and water rights agreements. Water from the Sand City Desalination plant and the future MPWSP Ocean Desalination Plant are drought resistant, and supply is assumed to be reliable.

ASR supply can vary substantially depending on weather and available supply. Increased demands and climate impacts, including shifting rainfall patterns and hotter summers, will increase the difficulty of building ASR storage. Supply is considered to be zero in dry and multiple dry year conditions.

Supply from the PWM Expansion is variable and provided as a range in CAW's latest supply and demand estimates. Due to the expansion's dependence on wastewater supply and user's consumption behavior, the supply and demand comparison was evaluated for the low and high values of its estimated supply range in normal and dry conditions. This comparison is detailed further in Section 5.4.

## 5.4 Comparison of Supply and Demand

Groundwater supply from the Carmel River Aquifer and Seaside Groundwater Basin is assumed to remain 100% available because the long-term average of the groundwater includes dry periods, and CAW's future pumping is limited by regulatory orders and water rights agreements.

Table 5-1 and Table 5-2 compare the average and single dry-year supply and demand. Table 5-3 and Table 5-4 compare water supply and demand during multi-year droughts in five-year increments. Each table lists the available supply based on the projected reliability of the source.

Based on these results, the Monterey service area requires the additional supply from the new MPWSP Ocean Desalination Plant and the PWM Expansion to meet the region's demands during average, single-dry year, and five consecutive dry years from 2025 to 2050. The new supply sources will help provide a secure and reliable water supply for the Monterey Peninsula and reduce the need for stringent demand reduction measures to close the gap between supply and demand. However, even with the second phase of the MPWSP operational in 2035, it is estimated that demand will outpace supply during dry year and multi-year drought scenarios when supply is at the lower range of projections starting in 2040.

**Table 5-1. Normal Year Supply and Demand Comparison**

	2025	2030	2035	2040	2045	2050
<b>Demand Totals, AFY</b>	9,970	11,820	12,770	13,340	13,910	14,480
<b>Water Supply, AFY</b>						
Carmel River Aquifer	3,376	3,376	3,376	3,376	3,376	3,376
Seaside Groundwater Basin	1,474	774	774	774	774	774
Sand City Desalination	94	94	94	94	94	94
ASR	470	470	470	470	470	470
Pure Water Monterey	3,500	3,500	3,500	3,500	3,500	3,500
Pure Water Monterey Expansion <sup>1</sup>	0	2,001 - 2,234	2,001 - 2,234	2,001 - 2,234	2,001 - 2,234	2,001 - 2,234
Pure Water Monterey Reserves	0	0	0	0	0	0
MPWSP Ocean Desalination	0	5,372	6,252	6,252	6,252	6,252
<b>Low Range Total Water Supply, AFY</b>	<b>8,914</b>	<b>15,587</b>	<b>16,467</b>	<b>16,467</b>	<b>16,467</b>	<b>16,467</b>
Operation Buffer (10%)	-891	-1,022	-1,022	-1,022	-1,022	-1,022
<b>Surplus/ Shortfall</b>	<b>-1,947</b>	<b>2,746</b>	<b>2,676</b>	<b>2,106</b>	<b>1,536</b>	<b>966</b>
<b>High Range Total Water Supply, AFY</b>	<b>8,914</b>	<b>15,820</b>	<b>16,700</b>	<b>16,700</b>	<b>16,700</b>	<b>16,700</b>
Operation Buffer (10%) <sup>2</sup>	-891	-1,045	-1,045	-1,045	-1,045	-1,045
<b>Surplus/ Shortfall</b>	<b>-1,947</b>	<b>2,955</b>	<b>2,885</b>	<b>2,315</b>	<b>1,745</b>	<b>1,175</b>

Note:

1. The PWM Expansion Project is reliant on the MPWSP Desalination Plant for increased water demands and wastewater for source water.
2. The operational buffer has not been applied to the MPWSP Ocean Desalination supply, which, given its source water, is drought-proof.

**Table 5-2. Single Dry Year Supply and Demand Comparison**

	2025	2030	2035	2040	2045	2050
<b>Demand Totals, AFY</b>	9,970	11,820	12,770	13,340	13,910	14,480
<b>Water Supply, AFY</b>						
Carmel River Aquifer	3,376	3,376	3,376	3,376	3,376	3,376
Seaside Groundwater Basin	1,474	774	774	774	774	774
Sand City Desalination	94	94	94	94	94	94
ASR	0	0	0	0	0	0
Pure Water Monterey	3,500	3,500	3,500	3,500	3,500	3,500
Pure Water Monterey Expansion <sup>1</sup>	0	0 - 1,100	0 - 1,100	0 - 1,100	0 - 1,100	0 - 1,100
Pure Water Monterey Reserves	0	0 - 775	0 - 775	0 - 775	0 - 775	0 - 775
MPWSP Ocean Desalination	0	5,372	6,252	6,252	6,252	6,252
<b>Low Range Total Water Supply, AFY</b>	<b>8,444</b>	<b>13,116</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>
Operation Buffer (10%) <sup>2</sup>	-844	-774	-774	-774	-774	-774
<b>Surplus/ Shortfall</b>	<b>-2,370</b>	<b>522</b>	<b>452</b>	<b>-118</b>	<b>-688</b>	<b>-1,258</b>
<b>High Range Total Water Supply, AFY</b>	<b>8,444</b>	<b>14,991</b>	<b>15,871</b>	<b>15,871</b>	<b>15,871</b>	<b>15,871</b>
Operation Buffer (10%) <sup>2</sup>	-844	-962	-962	-962	-962	-962
<b>Surplus/ Shortfall</b>	<b>-2,370</b>	<b>2,209</b>	<b>2,139</b>	<b>1,569</b>	<b>999</b>	<b>429</b>

Note:

1. When the MPWSP Desalination Plant comes online, it will provide a drought-proof supply that will allow water demands to increase to the projected levels and wastewater flows to increase, which provides more source water for the PWM and PWM Expansion Project and improves both projects supply reliability. This excess supply is only available in dry years if the MPWSP is operational.
2. The operational buffer has not been applied to the MPWSP Ocean Desalination supply, which, given its source water, is drought-proof.

Table 5-3. Multiple Dry Years Low Supply Range and Demand Comparison (AFY)

	2025	2030	2035	2040	2045	2050
<b>First Year</b>						
<b>Water Demand</b>	<b>9,970</b>	<b>11,820</b>	<b>12,770</b>	<b>13,340</b>	<b>13,910</b>	<b>14,480</b>
<b>Water Supply, AFY</b>						
Carmel River Aquifer	3,376	3,376	3,376	3,376	3,376	3,376
Seaside Groundwater Basin	1,474	774	774	774	774	774
Sand City Desalination	94	94	94	94	94	94
ASR	0	0	0	0	0	0
Pure Water Monterey	3,500	3,500	3,500	3,500	3,500	3,500
Pure Water Monterey Expansion	0	0	0	0	0	0
Pure Water Monterey Reserves	0	0	0	0	0	0
MPWSP Ocean Desalination	0	5,372	6,252	6,252	6,252	6,252
<b>Total Water Supply</b>	<b>8,444</b>	<b>13,116</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>
<b>Operation Buffer (10%)<sup>2</sup></b>	<b>-844</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>
<b>Surplus/ Shortfall</b>	<b>-2,370</b>	<b>522</b>	<b>452</b>	<b>-118</b>	<b>-688</b>	<b>-1,258</b>
<b>Second Year</b>						
<b>Water Demand</b>	<b>9,970</b>	<b>11,820</b>	<b>12,770</b>	<b>13,340</b>	<b>13,910</b>	<b>14,480</b>
<b>Water Supply, AFY</b>						
Carmel River Aquifer	3,376	3,376	3,376	3,376	3,376	3,376
Seaside Groundwater Basin	1,474	774	774	774	774	774
Sand City Desalination	94	94	94	94	94	94
ASR	0	0	0	0	0	0
Pure Water Monterey	3,500	3,500	3,500	3,500	3,500	3,500
Pure Water Monterey Expansion	0	0	0	0	0	0
Pure Water Monterey Reserves	0	0	0	0	0	0
MPWSP Ocean Desalination	0	5,372	6,252	6,252	6,252	6,252
<b>Total Water Supply</b>	<b>8,444</b>	<b>13,116</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>
<b>Operation Buffer (10%)<sup>2</sup></b>	<b>-844</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>
<b>Surplus/ Shortfall</b>	<b>-2,370</b>	<b>522</b>	<b>452</b>	<b>-118</b>	<b>-688</b>	<b>-1,258</b>
<b>Third Year</b>						
<b>Water Demand</b>	<b>9,970</b>	<b>11,820</b>	<b>12,770</b>	<b>13,340</b>	<b>13,910</b>	<b>14,480</b>
<b>Water Supply, AFY</b>	<b>4,944</b>	<b>13,116</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>
Carmel River Aquifer	3,376	3,376	3,376	3,376	3,376	3,376
Seaside Groundwater Basin	1,474	774	774	774	774	774
Sand City Desalination	94	94	94	94	94	94
ASR	0	0	0	0	0	0
Pure Water Monterey	3,500	3,500	3,500	3,500	3,500	3,500

	2025	2030	2035	2040	2045	2050
Pure Water Monterey Expansion	0	0	0	0	0	0
Pure Water Monterey Reserves	0	0	0	0	0	0
MPWSP Ocean Desalination	0	5,372	6,252	6,252	6,252	6,252
<b>Total Water Supply</b>	<b>8,444</b>	<b>13,116</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>
<b>Operation Buffer (10%)<sup>2</sup></b>	<b>-844</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>
<b>Surplus/ Shortfall</b>	<b>-2,370</b>	<b>522</b>	<b>452</b>	<b>-118</b>	<b>-688</b>	<b>-1,258</b>
<b>Fourth Year</b>						
<b>Water Demand</b>	<b>9,970</b>	<b>11,820</b>	<b>12,770</b>	<b>13,340</b>	<b>13,910</b>	<b>14,480</b>
<b>Water Supply, AFY</b>						
Carmel River Aquifer	3,376	3,376	3,376	3,376	3,376	3,376
Seaside Groundwater Basin	1,474	774	774	774	774	774
Sand City Desalination	94	94	94	94	94	94
ASR	0	0	0	0	0	0
Pure Water Monterey	3,500	3,500	3,500	3,500	3,500	3,500
Pure Water Monterey Expansion	0	0	0	0	0	0
Pure Water Monterey Reserves	0	0	0	0	0	0
MPWSP Ocean Desalination	0	5,372	6,252	6,252	6,252	6,252
<b>Total Water Supply</b>	<b>8,444</b>	<b>13,116</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>
<b>Operation Buffer (10%)<sup>2</sup></b>	<b>-844</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>
<b>Surplus/ Shortfall</b>	<b>-2,370</b>	<b>522</b>	<b>452</b>	<b>-118</b>	<b>-688</b>	<b>-1,258</b>
<b>Fifth Year</b>						
<b>Water Demand</b>	<b>9,970</b>	<b>11,820</b>	<b>12,770</b>	<b>13,340</b>	<b>13,910</b>	<b>14,480</b>
<b>Water Supply, AFY</b>						
Carmel River Aquifer	3,376	3,376	3,376	3,376	3,376	3,376
Seaside Groundwater Basin	1,474	774	774	774	774	774
Sand City Desalination	94	94	94	94	94	94
ASR	0	0	0	0	0	0
Pure Water Monterey	3,500	3,500	3,500	3,500	3,500	3,500
Pure Water Monterey Expansion	0	0	0	0	0	0
Pure Water Monterey Reserves	0	0	0	0	0	0
MPWSP Ocean Desalination	0	5,372	6,252	6,252	6,252	6,252
<b>Total Water Supply</b>	<b>8,444</b>	<b>13,116</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>	<b>13,996</b>
<b>Operation Buffer (10%)<sup>2</sup></b>	<b>-844</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>	<b>-774</b>
<b>Surplus/ Shortfall</b>	<b>-2,370</b>	<b>522</b>	<b>452</b>	<b>-118</b>	<b>-688</b>	<b>-1,258</b>

Note:

1. Demands are assumed to remain static at the beginning of a multi-year drought where demand restrictions will offset population and employment growth.
2. The operational buffer has not been applied to the MPWSP Ocean Desalination supply, which, given its source water, is drought-proof.



Table 5-4. Multiple Dry Years High Supply Range and Demand Comparison (AFY)

		2025	2030	2035	2040	2045	2050
First Year	<b>Water Demand</b>	<b>9,970</b>	<b>11,820</b>	<b>12,770</b>	<b>13,340</b>	<b>13,910</b>	<b>14,480</b>
	<b>Water Supply, AFY</b>						
	Carmel River Aquifer	3,376	3,376	3,376	3,376	3,376	3,376
	Seaside Groundwater Basin	1,474	774	774	774	774	774
	Sand City Desalination	94	94	94	94	94	94
	ASR	0	0	0	0	0	0
	Pure Water Monterey	3,500	3,500	3,500	3,500	3,500	3,500
	Pure Water Monterey Expansion	0	1,100	1,100	1,100	1,100	1,100
	Pure Water Monterey Reserves	0	775	775	775	775	775
	MPWSP Ocean Desalination	0	5,372	6,252	6,252	6,252	6,252
	<b>Total Water Supply</b>	<b>8,444</b>	<b>14,991</b>	<b>15,871</b>	<b>15,871</b>	<b>15,871</b>	<b>15,871</b>
	<b>Operation Buffer (10%)<sup>2</sup></b>	<b>-844</b>	<b>-962</b>	<b>-962</b>	<b>-962</b>	<b>-962</b>	<b>--962</b>
	<b>Surplus/ Shortfall</b>	<b>-2,370</b>	<b>2,209</b>	<b>2,139</b>	<b>1,569</b>	<b>999</b>	<b>429</b>
Second Year	<b>Water Demand</b>	<b>9,970</b>	<b>11,820</b>	<b>12,770</b>	<b>13,340</b>	<b>13,910</b>	<b>14,480</b>
	<b>Water Supply, AFY</b>						
	Carmel River Aquifer	3,376	3,376	3,376	3,376	3,376	3,376
	Seaside Groundwater Basin	1,474	774	774	774	774	774
	Sand City Desalination	94	94	94	94	94	94
	ASR	0	0	0	0	0	0
	Pure Water Monterey	3,500	3,500	3,500	3,500	3,500	3,500
	Pure Water Monterey Expansion	0	1,100	1,100	1,100	1,100	1,100
	Pure Water Monterey Reserves	0	775	775	775	775	775
	MPWSP Ocean Desalination	0	5,372	6,252	6,252	6,252	6,252
	<b>Total Water Supply</b>	<b>8,444</b>	<b>14,991</b>	<b>15,871</b>	<b>15,871</b>	<b>15,871</b>	<b>15,871</b>
	<b>Operation Buffer (10%)<sup>2</sup></b>	<b>-844</b>	<b>-962</b>	<b>-962</b>	<b>-962</b>	<b>-962</b>	<b>--962</b>
	<b>Surplus/ Shortfall</b>	<b>-2,370</b>	<b>2,209</b>	<b>2,139</b>	<b>1,569</b>	<b>999</b>	<b>429</b>
Third Year	<b>Water Demand</b>	<b>9,970</b>	<b>11,820</b>	<b>12,770</b>	<b>13,340</b>	<b>13,910</b>	<b>14,480</b>
	<b>Water Supply, AFY</b>						
	Carmel River Aquifer	3,376	3,376	3,376	3,376	3,376	3,376
	Seaside Groundwater Basin	1,474	774	774	774	774	774
	Sand City Desalination	94	94	94	94	94	94
	ASR	0	0	0	0	0	0
	Pure Water Monterey	3,500	3,500	3,500	3,500	3,500	3,500

	2025	2030	2035	2040	2045	2050
Pure Water Monterey Expansion	0	1,100	1,100	1,100	1,100	1,100
Pure Water Monterey Reserves	0	775	775	775	775	775
MPWSP Ocean Desalination	0	5,372	6,252	6,252	6,252	6,252
<b>Total Water Supply</b>	<b>8,444</b>	<b>14,991</b>	<b>15,871</b>	<b>15,871</b>	<b>15,871</b>	<b>15,871</b>
<b>Operation Buffer (10%)<sup>2</sup></b>	<b>-844</b>	<b>-962</b>	<b>-962</b>	<b>-962</b>	<b>-962</b>	<b>--962</b>
<b>Surplus/ Shortfall</b>	<b>-2,370</b>	<b>2,209</b>	<b>2,139</b>	<b>1,569</b>	<b>999</b>	<b>429</b>
<b>Fourth Year</b>						
<b>Water Demand</b>	<b>9,970</b>	<b>11,820</b>	<b>12,770</b>	<b>13,340</b>	<b>13,910</b>	<b>14,480</b>
<b>Water Supply, AFY</b>						
Carmel River Aquifer	3,376	3,376	3,376	3,376	3,376	3,376
Seaside Groundwater Basin	1,474	774	774	774	774	774
Sand City Desalination	94	94	94	94	94	94
ASR	0	0	0	0	0	0
Pure Water Monterey	3,500	3,500	3,500	3,500	3,500	3,500
Pure Water Monterey Expansion	0	1,100	1,100	1,100	1,100	1,100
Pure Water Monterey Reserves	0	775	775	775	775	775
MPWSP Ocean Desalination	0	5,372	6,252	6,252	6,252	6,252
<b>Total Water Supply</b>	<b>8,444</b>	<b>14,991</b>	<b>15,871</b>	<b>15,871</b>	<b>15,871</b>	<b>15,871</b>
<b>Operation Buffer (10%)<sup>2</sup></b>	<b>-844</b>	<b>-962</b>	<b>-962</b>	<b>-962</b>	<b>-962</b>	<b>--962</b>
<b>Surplus/ Shortfall</b>	<b>-2,370</b>	<b>2,209</b>	<b>2,139</b>	<b>1,569</b>	<b>999</b>	<b>429</b>
<b>Fifth Year</b>						
<b>Water Demand</b>	<b>9,970</b>	<b>11,820</b>	<b>12,770</b>	<b>13,340</b>	<b>13,910</b>	<b>14,480</b>
<b>Water Supply, AFY</b>						
Carmel River Aquifer	3,376	3,376	3,376	3,376	3,376	3,376
Seaside Groundwater Basin	1,474	774	774	774	774	774
Sand City Desalination	94	94	94	94	94	94
ASR	0	0	0	0	0	0
Pure Water Monterey	3,500	3,500	3,500	3,500	3,500	3,500
Pure Water Monterey Expansion	0	1,100	1,100	1,100	1,100	1,100
Pure Water Monterey Reserves	0	775	775	775	775	775
MPWSP Ocean Desalination	0	5,372	6,252	6,252	6,252	6,252
<b>Total Water Supply</b>	<b>8,444</b>	<b>14,991</b>	<b>15,871</b>	<b>15,871</b>	<b>15,871</b>	<b>15,871</b>
<b>Operation Buffer (10%)<sup>2</sup></b>	<b>-844</b>	<b>-962</b>	<b>-962</b>	<b>-962</b>	<b>-962</b>	<b>--962</b>
<b>Surplus/ Shortfall</b>	<b>-2,370</b>	<b>2,209</b>	<b>2,139</b>	<b>1,569</b>	<b>999</b>	<b>429</b>

Note:

1. Demands are assumed to remain static at the beginning of a multi-year drought where demand restrictions will offset population and employment growth.
2. The operational buffer has not been applied to the MPWSP Ocean Desalination supply, which, given its source water, is drought-proof.

## 6.0 Determination of Water Supply Sufficiency

Based on the results described in Section 5, CAW requires additional supply to meet current and future water demands. The PWM Expansion is anticipated to add up to 2,234 AFY of supply by 2030 during normal years. The new MPWSP Ocean Desalination Plant is anticipated to add approximately 5,372 AFY by 2030 with the completion of the first phase approved by the California Coastal Commission in November 2022. The second phase of the MPWSP Ocean Desalination Plant is expected to raise the total production to 6,252 AFY. For the purposes of this report, the second phase is assumed to be completed by 2035.

The tables in Section 5 show that during dry years, the PWM Expansion is anticipated to provide up to 1,100 AFY, or approximately one-half of the normal year capacity. PWM and the PWM Expansion project rely on multiple source waters, each of which are impacted differently by climate warming and increased frequency of drought. During dry years there is limited source water available for PWM and the PWM Expansion project after meeting other contracted demands until demands and wastewater flows on the Peninsula increase. The increased frequency of droughts due to climate change will continue to reduce the reliability of source supply for these projects and as a water supply for the Monterey Main System.

The MPWSP Ocean Desalination Plant is anticipated to provide a drought-proof supply. With the addition of these supplies, it is expected that supply will exceed demand during normal years through 2050. The new supply sources will help provide a secure and reliable water supply for the Monterey Peninsula and reduce the need for stringent demand reduction measures to close the gap between supply and demand. During single dry year and multiple dry year scenarios, it is estimated that demands will outpace available supply by 2040 when supply is at the lower estimated range of values.

A supply deficit is anticipated until new supplies are available. After new supplies are available, there will be adequate supply to serve projected demand (including projected demands for RHNA housing). Until the new supplies come online, CAW will use its Water Shortage Contingency Plan (WSCP) measures to maintain demand below the available supply.

## 7.0 References

California American Water Company. (2022). Monterey Peninsula Water Supply Project, CDP Application No. 9-20-0603: Updated Supply and Demand Estimates.

City of Monterey. (September 2023). 2023 Water Supply Assessment Request for California American Water Company.

Water Systems Consulting, Inc. (2021). 2021 Urban Water Management Plan for Monterey County District.

# Appendix A WSA Request from City of Monterey



Chris Cook  
Kevin Tilden

September 1, 2023

Kevin Tilden, President  
California American Water Company  
Monterey County District  
511 Forest Lodge Road #100  
Pacific Grove, CA 93950

Dear Mr. Tilden:

Pursuant to California Water Code Division 6, Part 2.10, Section 10910, this is to formally request preparation of a Water Supply Assessment (WSA) for the Monterey 2031 Project, described below. The City of Monterey has determined that an Environmental Impact Report (EIR) is required for the Project, and the WSA is needed to evaluate whether Cal Am's total projected water supplies available during normal, single-dry and multiple-dry water years are sufficient to meet the projected water demand associated with the Project, in combination with existing and planned future uses within in Cal Am's service area.

### **Background**

The Monterey 2031 Project involves updates to the Housing, Land Use, Circulation, and Safety Elements of the City of Monterey General Plan to respond to changing demographics, emerging issues, and new State law. A critical component of the Project is planning for additional housing to meet the City's assessed share of the projected Regional Housing Needs Allowance (called RHNA) at all income levels for the upcoming planning period, which runs from 2023 through 2031. Amid the ongoing housing shortage in California, the City of Monterey is required by law to plan to accommodate at least 3,654 new housing units over the planning period, including 1,177 units affordable to very-low-income households, and 769 units affordable to low-income households. To ensure that the City can comply with the no net loss provisions in State law in the event that housing sites develop at densities below those anticipated, the Draft Housing Element includes a buffer, consistent with guidance from the California Department of Housing and Community Development (HCD). Accordingly, the Draft Housing Element incorporates an inventory of housing sites with a total projected capacity of 5,802 new homes and a suite of implementing programs to facilitate and support buildout of the inventory. The Safety Element Update will incorporate new data on natural hazards, climate change, new strategies to strengthen community resilience, and emergency evacuation capacity. The Land Use Element Update will ensure consistency with the newly adopted *Monterey Regional Airport Land Use Compatibility Plan*. The Circulation Element Update will include a shift in the transportation metric away from Level of Service (LOS) to Vehicle Miles Traveled consistent with State law (SB743)

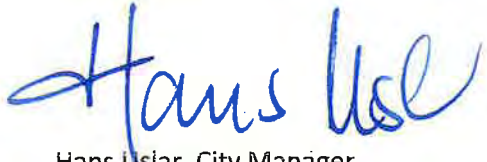
A more detailed description of the Project is attached, including a map of proposed housing sites and a summary of the housing and employment projected as a result of buildout of the Project in 2031.

### **Request**

MPWMD and the California American Water Company (Cal-AM) have previously prepared assessments of current and projected water supplies for the region; however, these prior assessments do not fully account for the City of Monterey's 2023-2031 RHNA allocation or the residential development capacity projected under the Monterey 2031 project. The *June 2021 Cal-AM Urban Water Management Plan*, intended to support regional long-range planning documents and serve as a key source of information for Water Supply Assessments (WSAs) and Written Verifications of Water Supply, was adopted two months before the Association of Monterey Bay Areas Governments (AMBAG) received its 6th Cycle Regional Housing Need Determination from HCD in August 2021. Therefore, it cannot have accounted for water demand resulting from buildout of the City of Monterey's RHNA allocation or cumulative demand in its service area. The *September 2022 MPWMD Technical Memorandum: 2022 Supply and Demand Forecast* is based on population and employment projections from the Regional Growth Forecast from *AMBAG's 2045 Metropolitan Transportation Plan & the Sustainable Communities Strategy (Appendix A)*<sup>1</sup>, which are inconsistent with the Monterey 2031 Project. The Regional Growth Forecast assumes that only 480 new homes will be built in the City of Monterey between 2020 and 2030, which represents just 13 percent of the City's RHNA allocation for the 2023-2031 planning period. Further, the Regional Growth Forecast assumes that there were 40,989 jobs in the City of Monterey in 2020, whereas data from the U.S. Census indicate that there were 20,743 jobs in the City in 2020, down from 24,980 in 2015<sup>2</sup>.

Therefore, the City requests preparation of a WSA that fully accounts for its 2023-31 RHNA allocation and based on employment projections that accurately reflect the number of existing jobs in the City of Monterey. Pursuant to California Water Code Division 6, Part 2.10, Section 10910(g), the City requests that Cal Am provide the WSA within 90 days of receipt of this request.

Sincerely,



Hans Usiar, City Manager  
City of Monterey

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<sup>1</sup> 2022 Regional Growth Forecast, Association of Monterey Bay Areas Governments, Monterey Bay 2045 Moving Forward, 2045 Metropolitan Transportation Plan & the Sustainable Communities Strategy, Appendix A, accessed on August 8, 2023 at: [https://www.ambag.org/sites/default/files/2022-12/REVISED\\_PDFAAppendix%20A\\_2022%20RGF.pdf](https://www.ambag.org/sites/default/files/2022-12/REVISED_PDFAAppendix%20A_2022%20RGF.pdf)

<sup>2</sup> United States Census Bureau, On The Map, accessed August 8, 2023 at: <https://onthemap.ces.census.gov>

## **MONTEREY 2031 PROJECT DESCRIPTION**

The Proposed Project involves updates to the Housing, Land Use, and Safety Elements of the City of Monterey General Plan to address emerging issues and new State laws. Key project components are summarized below.

### **Draft Housing Element**

Under State law, each city and county in California must plan to accommodate its share of the regional housing need - called the Regional Housing Needs Allocation (RHNA) - for the coming 8-year planning period, which runs from December 15, 2023, through December 15, 2031. The State determines the estimated need for new housing in each region of California, based on population projections and other factors including rates of vacancy, overcrowding, and cost-burden. The various regional planning agencies then allocate a target to each city or town within their jurisdiction, considering factors such as access to jobs, good schools, and healthy environmental conditions. RHNA is split into four categories representing different levels of affordability, based on area median income (AMI) in the county. The affordability categories are as follows:

- Very Low Income - Households making less than 50 percent of AMI
- Low Income - Households making 50-80 percent of AMI
- Moderate Income - Households making 80-120 percent of AMI
- Above Moderate Income - Households making more than 120 percent of AMI

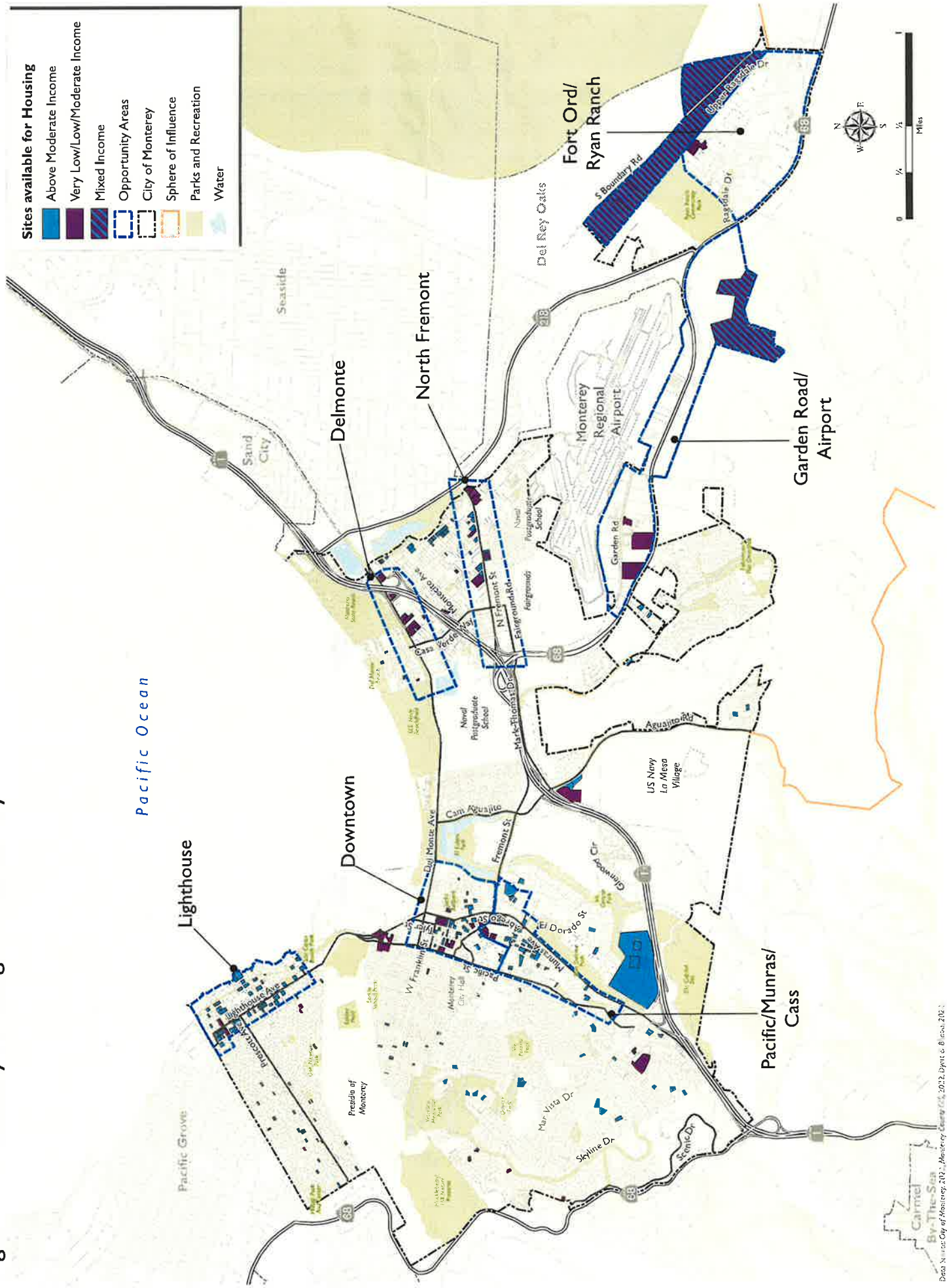
Amid the ongoing housing crisis in California, Monterey is required to plan for at least 3,654 new housing units between 2023 and 2031, including 1,177 Very-Low-Income units, 769 Low-Income units, 462 Moderate-income units, and 1,246 Above-Moderate units. As required by State law, the Draft Housing Element will include an inventory of sites available for housing and a projection of the realistic capacity of the inventory for housing. The Draft Housing Element will also include a Housing Action Plan, organized around communitywide housing goals. Each goal will be supported by policies and implementing programs that describe actions the City will take to help meet its RHNA obligations.

On June 20, 2023, the Monterey City Council approved a draft inventory of sites for housing, developed with extensive community input and shown on Figure 1. Together with development proposals currently in the pipeline and expected to be approved and constructed within the planning period, the inventory has a total projected capacity for 5,802 new homes, which is sufficient to meet the City's assessed share of the regional housing need at all income levels with a buffer. The inventory assumes a combination of strategies to ensure the City meets its RHNA obligations, including:

- Infill development on vacant and underutilized properties downtown and along commercial corridors, including North Fremont Street, Garden Road, Lighthouse Avenue, Del Monte Avenue, Munras Avenue, and Abrego Street;
- Preparation of a specific plan to guide future residential and mixed-use development in the Fort Ord/Ryan Ranch area, identify infrastructure needs and financing mechanisms, and establish measures to ensure sustainable development and adequate resource protection;
- Facilitating construction of accessory dwelling units (ADUs) and junior ADUs that provide affordable housing options on existing residential properties throughout the community; and
- Development or redevelopment of several larger sites to increase the range of housing options available in Monterey.



Figure 1: Preliminary Housing Sites Inventory



The projected capacity of the sites, summarized in Table 1 by area, is based on a survey of recently constructed projects in Monterey and surrounding communities, conducted to establish average as-built densities that represent the realistic capacity of sites included in the inventory.

**Table 1 – Summary of RHNA Capacity Projections**

Income Category	Very Low, Low, and Moderate		Above Moderate		Subtotal
	Vacant	Non-vacant	Vacant	Non-vacant	
Opportunity Area					
Downtown	0	216		241	457
North Fremont	0	218	24	86	328
Garden Road	0	356	0	0	356
Lighthouse	0	31	11	254	296
Pacific/Munras/Cass	0	38	0	92	130
Del Monte	0	126	0	0	126
Fort Ord/Ryan Ranch		420		1,680	2,100
Vacant Low Density Residential			111		111
Vacant High Density Residential	33				33
ADUs		120			120
Educational Workforce Overlay		100			100
Pipeline projects	108		383		491
County Courthouse Site		130			130
50-acre MCSD Site	290		350		640
590 Perry Lane Site				50	50
Elk's Lodge Site		94			94
Del Monte Shopping Center				150	150
Heritage Harbor Office Complex		90			90
Subtotal	431	1,939	879	2,553	5,802
Total by RHNA Category		2,370		3,432	5,802
Inclusionary Requirement (20%) <sup>3</sup>				244	
Adjusted Total RHNA <sup>4</sup>		2,614		3,188	5,802
RHNA		2,408		1,246	3,654
Buffer		206		1,942	1,498
		8.56%		155.84%	

<sup>3</sup> Infill sites that do not meet the site suitability criteria established by the State are assumed to develop with market rate housing and that capacity has been assigned to above moderate income households. However, the City has adopted an Inclusionary Ordinance which requires that 20 percent of new units in projects of six or more units be affordable to moderate and low income households. Therefore, 20 percent of the total above moderate infill development capacity has been reallocated to moderate, low, and very low-income households.

<sup>4</sup> Adjusted Total RHNA is the sum of Total by RHNA Category and the Inclusionary Requirement.

### **Draft Safety, Land Use, and Circulation Elements**

As an urbanized community, nestled between the California coast and the Santa Lucia Mountains, integrating new housing into the fabric of Monterey will require a thoughtful approach to land use and community design. In parallel with the Housing Element Update, State law triggers requirements to incorporate new data on natural hazards and climate change into the Safety Element along with actions to strengthen community resilience and emergency evacuation capacity. At the same time, the Land Use Element will be updated to ensure consistency with the newly adopted *Monterey Regional Airport Land Use Compatibility Plan*. The Circulation Element Update will include a shift in the transportation metric away from Level of Service (LOS) to Vehicle Miles Traveled consistent with State law (SB743).

### **Employment Projections**

The Association of Monterey Bay Areas Governments' (AMBAG) *2045 Metropolitan Transportation Plan & the Sustainable Communities Strategy* (MTP/SCS) projects that employment in the City of Monterey will increase by 2,463 jobs between 2020 and 2035<sup>5</sup>. Applying this increment of employment growth to the 20,743 jobs that existed in the City in 2020 according to the U.S. Census<sup>6</sup>, there would be 23,206 jobs in the City in 2035. The MTP/SCS provide employment projections in 5-year increments only. Therefore, employment projections for the Monterey 2031 Project assume 23,206 jobs in the City in 2031 for the purpose of providing a conservative estimate of demand for public services and utilities.

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<sup>5</sup> Association of Monterey Bay Areas Governments, Monterey Bay 2045 Moving Forward, 2045 Metropolitan Transportation Plan & the Sustainable Communities Strategy, accessed on August 8, 2023 at: <https://www.ambag.org/plans/2045-metropolitan-transportation-plan-sustainable-communities-strategy>

<sup>6</sup> United States Census Bureau, On The Map, accessed August 8, 2023 at: <https://onthemap.ces.census.gov>

## **RULE 142 - WATER EFFICIENCY STANDARDS**

### A. Water Efficiency Standards.

1. All Sites supplied with water from a Water Distribution System regulated by the District shall comply with these standards.
2. All New Construction of New Structures shall install and maintain plumbing fixtures and conservation standards as set forth in this Rule.
3. No plumbing fixture shall be replaced with fixtures which allow greater water use.
4. All new and replacement water fixtures shall comply with then-current California plumbing and energy standards/codes when more restrictive than the District's.
5. Manufactured Homes shall be subject to these standards.

### B. Former Rules. Water Permit requirements change periodically to reflect current efficiencies. Sites with uncompleted Water Permits that have not received a final inspection shall at a minimum comply with the requirements in place at the time the Water Permit was issued unless required to install more efficient fixtures as a result of a subsequent triggering event (e.g. new/amended Water Permit or Change of Ownership/ Use).

### C. Residential Water Efficiency Standards for New Structures.

All Residential New Structures receiving a Water Permit, shall meet or exceed the following standards:

1. High Efficiency or Ultra High Efficiency Toilets shall be installed;
2. Urinals, when installed in a Residential use, shall be designed to flush with one (1) gallon of water. After January 1, 2016, newly installed Urinals shall flush with no more than 0.125 gallon per flush;
3. Showerheads, Rain Bars, or Body Spray Nozzles must be designed and manufactured to emit a maximum of 2.0 gallons per minute of water;
4. All shower fixtures should be equipped with scald protection valves rated for 2.0 gallons per minute Showerheads;
5. High Efficiency Clothes Washer(s) and High Efficiency Dishwasher(s) shall be required when installed in a Residential use;
6. Lavatory Sink faucets shall emit a maximum of 1.2 gallons of water per minute at 60 psi;

7. Kitchen Sink, Utility Sink, and Bar Sink faucets shall emit a maximum of 1.8 gallons of water per minute at 60 psi. Faucets may have the capability to temporarily increase flow to 2.2 gallons per minute for filling pots and pans, but must default back to a maximum Flow Rate of 1.8 gallons per minute measured at 60 psi;
8. Instant-Access Hot Water Systems shall be installed;
9. All hot water pipes shall be insulated;
10. Sodium chloride (salt) water softeners shall be discouraged in New Construction. Alternate technologies such as potassium chloride shall be recommended. When a sodium chloride water softener is to be installed within the MPWMD, the unit shall use demand-initiated regeneration which senses when the resin must be re-charged, either electronically or with a meter that measures and calculates usage. This requirement shall be specified on the Construction Drawings;
11. Landscaping. All New Construction (including new buildings with landscape or other new landscape, such as a park, playground, or Greenbelt without an associated building) shall install and maintain landscapes that comply with Rule 142.1.
12. Rainwater collection/Irrigation Systems are encouraged to supplement irrigation for new landscaping. New Structures shall be encouraged to include one or more rainwater Cisterns and a system to provide at least 75 percent of exterior irrigation during normal rainfall years. Systems must be compliant with local catchment system standards.
13. Graywater collection/Irrigation Systems are encouraged to supplement irrigation for new Landscaping. Systems must be compliant with local catchment system standards, including Monterey County Environmental Health Bureau.
14. All Sites utilizing a Graywater reuse system shall install and maintain a Backflow Prevention Device as required by any Water Distribution System Operator that supplies water to the Site.

D. Non-Residential Water Efficiency Standards for New Structures.

All Non-Residential New Structures receiving a Water Permit shall meet or exceed the following standards:

1. High Efficiency or Ultra High Efficiency Toilets shall be installed;
2. Urinals shall be Pint Urinals or Zero Water Consumption Urinals and shall be clearly specified on the final Construction Drawings. Zero Water Consumption Urinals shall be encouraged in settings where there is a regular maintenance staff;
3. Showerheads, Rain Bars, or Body Spray Nozzles must be designed and

- manufactured to emit a maximum of 2.0 gallons per minute of water;
4. All shower fixtures should be equipped with scald protection valves rated for 2.0 gallons per minute Showerheads;
  5. Public Washbasins shall emit a maximum of 0.5 gallon of water per minute at 60 psi. Private Washbasins (e.g. hotel or motel guest rooms and hospital patient rooms) shall emit a maximum of 1.2 gallons of water per minute at 60 psi. All other sinks shall emit a maximum of 2.2 gallons of water per minute at 60 psi unless higher flow is required by Health and Safety Code;
  6. Public Washbasins equipped with automatic shut off devices or sensor faucets shall operate with a maximum flow of 0.25 gallons per cycle;
  7. High Efficiency Clothes Washers shall be installed when a Clothes Washer is installed in a New Structure permitted under this Regulation;
  8. High Efficiency Dishwashers or High Efficiency Commercial Dishwashers shall be installed and maintained on the Site when a Dishwasher is installed in a New Structure permitted by a Water Permit;
  9. Instant-Access Hot Water System(s) shall be installed for hot water access points to ensure that hot water is available within ten (10) seconds;
  10. All hot water pipes shall be insulated;
  11. Sodium chloride (salt) water softeners shall be discouraged in New Construction. Alternate technologies, such as potassium chloride shall be recommended. When a sodium chloride water softener is to be installed within the MPWMD, the unit shall use demand-initiated regeneration which senses when the resin must be recharged, either electronically or with a meter that measures and calculates usage. This requirement shall be specified on the Construction Drawings;
  12. Water Efficient Pre-Rinse Spray Valves shall be utilized when a pre-rinse spray valve is installed;
  13. There shall be no single-pass water use systems in ice machines, hydraulic equipment, refrigeration condensers, X-ray processing equipment, air compressors, vacuum pumps, etc. Air-cooled or better technology shall be installed when available;
  14. Water cooled refrigeration equipment shall be prohibited when there is alternative cooling technology available at the time the Water Permit is issued;
  15. Cooling Towers shall be equipped with conductivity controllers that are used to increase the number of cycles that can be achieved;

16. Boilerless steamers or connectionless steamers shall be installed in place of boiler-based steamers when a steamer is installed in New Construction;
17. Landscaping. All New Construction (including new buildings with landscape or other new landscape, such as a park, playground, or Greenbelt without an associated building) shall install and maintain landscapes that comply with Rule 142.1.
18. Rainwater collection/Irrigation Systems are encouraged to supplement irrigation for new landscaping. New Structures shall be encouraged to include one or more rainwater Cisterns and a system to provide at least 75 percent of exterior irrigation during normal rainfall years. Systems must be compliant with local catchment system standards.
19. Graywater collection/Irrigation Systems are encouraged to supplement irrigation for new landscaping. Systems must be compliant with local catchment system standards, including Monterey County Environmental Health Bureau.
20. All Sites utilizing a Graywater reuse system shall install and maintain a Backflow Prevention Device as required by any Water Distribution System Operator that supplies water to the Site.
21. The implementation of water conservation Best Management Practices shall be integrated into construction and operation of the project to the extent possible.
22. The use of Alternative Water Sources for indoor toilet flushing and other uses allowed by the Jurisdiction shall be encouraged.
23. Visitor-Serving and Public and Quasi-Public Facilities shall display in visible locations in all restrooms, kitchens, and dining areas, placards or decals approved by the District promoting public awareness of the need for water conservation and/or advising the public that waste of water is prohibited.
24. The owner and/or manager of rental property shall provide current and new tenants with information about the water conservation requirements, including the Water Waste and Non-Essential Water Use regulations of the District. This information shall be readily accessible on a tenant portal website with annual notification of its presence, or when notice is not provided electronically, the owner and/or manager shall annually provide written information to existing tenants and to new tenants as they move in.
25. Visitor-Serving Facilities shall promote towel and linen reuse programs by providing written notice in the rooms, whereby towels and linens are changed every three days or as requested by action of the guest.
26. Visitor-Serving Facilities shall provide written notice that drinking water is available only upon request. Notification of this requirement shall be provided on

the table(s) or menu(s) of each facility. Visitor-Serving Facilities shall not provide drinking water from the Monterey Peninsula Water Resource System at the table unless specifically requested.

27. Facilities utilizing alternative sources of irrigation water (i.e. purified recycled water, Non-Potable Water, rainwater and Graywater, etc.) shall be encouraged to provide notice of the alternative supply, either by erecting a sign in compliance with local codes or by identifying the alternative supply in other venues such as in newsletters, websites, menus, etc.

E. Residential and Non-Residential Change of Ownership, Change of Use, and Expansion of Use Water Efficiency Standards

Sites that have a Change of Ownership, or receive a Water Permit for a Change of Use or Expansion of Use shall meet or exceed the following standards:

1. High Efficiency or Ultra High Efficiency Toilets shall be installed;
2. Urinals shall be at a minimum High Efficiency Urinals (when installed prior to January 1, 2016). Newly installed Urinals shall be Pint Urinals or Zero Water Consumption Urinals. Zero Water Consumption Urinals shall be encouraged in settings where there is a regular maintenance staff;
3. Showerhead Flow Rates shall meet or exceed water efficiency standards for New Structures;
4. Bathroom faucet Flow Rates shall meet or exceed water efficiency standards for New Structures;
5. Kitchen faucet Flow Rates shall meet or exceed water efficiency standards for New Structures;
6. Remodels or relocations of water fixtures or appliances that involve hot water shall be encouraged to install an Instant-Access Hot Water System and insulate all new hot water pipes;
7. Pre-rinse spray valves shall meet or exceed the District's definition for Water Efficient Pre-Rinse Spray Valves;
8. Changes of Use and Expansions of Use that require a Water Permit shall not install any single-pass water use systems in ice machines, hydraulic equipment, refrigeration condensers, X-ray processing equipment, air compressors, vacuum pumps, etc. Air-cooled or better technology shall be installed when available;
9. Changes of Use and Expansions of Use that require a Water Permit shall not install any water cooled refrigeration equipment when there is alternative water efficient cooling technology available at the time the Water Permit is issued;



10. Automatic Irrigation Systems, with the exception of Weather- Based Irrigation Systems, shall be retrofit to include a Rain Sensor;
  11. The implementation of Non-Residential Best Management Practices shall be integrated into construction and operation of Non-Residential uses to the extent possible;
  12. Projects that include Rehabilitated Landscapes (modified Landscape Area is equal to or greater than two thousand five hundred (2,500) square feet) shall comply with Rule 20-B and Rule 142.1
- F. Water Efficiency Standards for Multi-Family Residential Sites and Common Interest Developments:
1. Multi-Family Residential Sites and Common Interest Developments with four or more Dwelling Units, shall meet or exceed the following water efficiency standards before January 1, 2019<sup>1</sup>:
    - a. High Efficiency or Ultra High Efficiency Toilets shall be installed. Multi-Family Residential Sites and Common Interest Developments with Ultra-Low Flush Toilets installed prior to January 1, 2014, shall be exempt from this toilet retrofit requirement.;
    - b. Urinals shall be at a minimum High Efficiency Urinals (if installed prior to January 1, 2016). Newly installed Urinals shall be Pint Urinals or Zero Water Consumption Urinals;
    - c. Showerheads, Rain Bars, or Body Spray Nozzles must be designed and manufactured to emit a maximum of 2.0 gallons per minute of water at 60 psi;
    - d. Washbasin faucets shall emit a maximum of 1.2 gallons of water per minute at 60 psi;
    - e. Kitchen Sink, Utility Sink, and Bar Sink faucets shall emit a maximum of 1.8 gallons of water per minute at 60 psi. Faucets may have the capability to temporarily increase flow to 2.2 gallons per minute for filling pots and pans, but must default back to a maximum Flow Rate of 1.8 gallons per minute measured at 60 psi;
    - f. Common Laundry Rooms. By January 1, 2019 all Clothes Washers installed in Common Laundry Rooms within the District shall meet the definition of High Efficiency Clothes Washer rated with a Water Factor of 5.0. Washer/extractors that do not comply with the 5.0 Water

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<sup>1</sup> Individually owned condominiums and cooperatives that are subject to Rule 142-E shall be exempt from this requirement.

Factor shall be programmed by a manufacturer/vendor technician to only function on the low water setting (non-user selected setting). A written statement shall be provided to MPWMD by the manufacturer/vendor's technician stating that the machines have been programmed to only use the low water setting and that there is no way to manipulate the water usage via a user setting. This statement shall be maintained by MPWMD.

- g. Clothes Washers located inside Dwelling Units should be encouraged to replace Clothes Washers with High Efficiency Clothes Washers;
  - h. Water Pressure Regulating Devices shall be installed and maintained to maintain water pressure between 50 and 65 psi.
  - i. Automatic Irrigation Controllers properly adjusted to adhere to the District's Stage 1 Water Conservation Requirements (Rule 162) shall be installed, used, and maintained.
2. The owner (or his authorized agent) of a Multi-Family Residential Site or Common Interest Development manager shall certify compliance with this regulation by one of the following methods:
- a. Provide the District with a District-certified inspection report that provides all Site information required by the District and that verifies installation of Low Water Use Plumbing Fixtures throughout the Site, as required by Regulation XIV and Regulation XV; or
  - b. Provide documentation to the District from a District-certified city or county building official that provides all Site information required by the District and that certifies installation of Low Water Use Plumbing Fixtures throughout the Site, as required by Regulation XIV and Regulation XV; or
  - c. Provide owner/association certification that plumbing fixtures throughout the Site have been retrofitted in compliance with Regulation XIV and Regulation XV. The owner, his authorized agent, or CID manager shall forward a copy of this certification, together with a dated copy of the purchase receipt for each Low Water Use Plumbing Fixture and a dated copy of the labor contract or a statement of self-installation which evidences complete installation to the District. The District may verify certification by an onsite inspection.

*Rule added by Ordinance No. 30 (7/13/87); amended by Ordinance No. 71 (12/20/1993); Ordinance No. 125 (9/18/2006); Ordinance No. 141 (11/16/2009); Ordinance No. 151 (11/19/2012); Ordinance No. 170 (5/16/2016); Ordinance No. 172 (8/15/2016); Ordinance No. 177 (9/18/2017); Ordinance No. 178 (11/13/2017); Ordinance No. 182 (5/20/2019)*



VIA EMAIL

January 23, 2024

Mr. Hans Uslar  
City Manager  
City Hall  
Monterey, CA 93940

RE: Water Supply Assessment

Dear Mr. Uslar:

In August 2023 you requested a water supply assessment from the Monterey Peninsula Water Management District (District). Under California Water Code Section 10910, as a city or the county develops growth plans for jobs and housing on the Monterey Peninsula, the water supply assessment required under CEQA for the projects shall include a discussion with regard to whether the public water system's – in this case, California American Water Company's (Cal-Am's) – total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed projects, in addition to Cal-Am's existing and planned future uses.

If the projected water demand associated with the proposed projects was accounted for in the most recently adopted urban water management plan (UWMP), Cal-Am is the entity who should have provided the water supply assessment and incorporated the requested information from the urban water management plan in preparing and submitting the assessment within 90 days of the request, or requested an extension of time. At the time of your letter, we recognized that you copied Cal-Am and hoped that they would be responsive.

The "Urban Water Management Planning Act" (Act) is comprised of Section 10610 through 10657 of the California Water Code Division 6, Part 2.6. Under Section 10620, every urban water supplier shall prepare and adopt a UWMP. An urban water supplier indirectly providing water, such as MPWMD as a wholesaler, shall not include planning elements in its water management plan as provided in Article 2 (commencing with Section 10630) that would be applicable to urban water suppliers or public agencies directly providing water, such as Cal-Am. Hence, it is Cal-Am that is obligated to work with a city or the county to provide a water supply assessment to assist with CEQA. However, that section of the Act also provides that each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable. MPWMD was not asked by Cal-Am to coordinate on its UWMP, nor does MPWMD agree with many of the assumptions and

Mr. Hans Uslar  
Page 2 of 2  
January 23, 2024

conclusions of Cal-Am's UWMP and subsequent Cal-Am supply and demand analysis.

As such, MPWMD has undertaken the attached Water Supply Assessment in conjunction with testimony filed with the California Public Utilities Commission (CPUC) on January 22, 2024. It is consistent with the State of California requirements for an UWMP and, specifically, a Water Shortage Contingency Plan in accordance with Sections 10632 and 10640 of the Act. Here, because MPWMD disagrees with Cal-Am on the need for implementation of a desalination facility, MPWMD's Water Supply Assessment includes Pure Water Monterey Expansion, completion by the end of 2025, but excludes the Monterey Peninsula Water Supply Project desalination plant.

You can reach me at 831-658-5651 or [dstoldt@mpwmd.net](mailto:dstoldt@mpwmd.net) for any additional information.

Sincerely,



David J. Stoldt  
General Manager

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**

Application of California-American Water Company (U210W) to Obtain Approval of the Amended and Restated Water Purchase Agreement for the Pure Water Monterey Groundwater Replenishment Project, Update Supply and Demand Estimates for the Monterey Peninsula Water Supply Project, and Cost Recovery

Application No. 21-11-024  
(Filed November 29, 2021)

**PHASE 2 SUPPLEMENTAL DIRECT TESTIMONY OF DAVID J. STOLDT**

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Attorneys for  
**MONTEREY PENINSULA WATER  
MANAGEMENT DISTRICT**

January 22, 2024

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**BEFORE THE PUBLIC UTILITIES COMMISSION  
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Application of California-American Water Company (U210W) to Obtain Approval of the Amended and Restated Water Purchase Agreement for the Pure Water Monterey Groundwater Replenishment Project, Update Supply and Demand Estimates for the Monterey Peninsula Water Supply Project, and Cost Recovery

Application No. 21-11-024  
(Filed November 29, 2021)

**PHASE 2 SUPPLEMENTAL DIRECT TESTIMONY OF DAVID J. STOLDT**

**I. INTRODUCTION**

Q1: What is your name, title, and business address?

A1: My name is David Stoldt, and I am the General Manager of the Monterey Peninsula Water Management District (MPWMD). My address is 5 Harris Court, Building G, Monterey, CA 93940.

Q2: Have you previously provided testimony in this proceeding?

A2: Yes, I submitted Phase 2 Direct Testimony on August 19, 2022, which expanded upon my credentials to include prior experience with demand forecasting. I also submitted testimony in Phase 1 of this proceeding on March 11, 2022,<sup>1</sup> and April 4, 2022.<sup>2</sup> My credentials were included in the March 11, 2022, Phase 1 direct testimony.

<sup>1</sup> MPWMD-01, Direct Testimony of David J. Stoldt, dated March 11, 2022.

<sup>2</sup> MPWMD-02, Supplemental Testimony of David J. Stoldt, dated April 1, 2022.

1 **II. PURPOSE OF TESTIMONY**

2  
3 Q3: What is the purpose of your testimony?

4 A3: In response to the Administrative Law Judge’s Ruling Regarding Evidence and Setting  
5 Schedule Second Phase Hearings dated November 30, 2023, I am providing updated supply and  
6 demand analyses related to the Monterey Peninsula Water Supply Project, as well as providing  
7 alternative views to many of the issues raised in the Phase 2 Supplemental Direct Testimony of  
8 Christopher Cook of California-American Water Company (Cal-Am) dated December 21, 2023.

9  
10 Q4: What specific issues does your direct testimony cover?

11 A4: I will address the following:

12  
13 **Water Demand:** The Cal-Am Updated Demand Estimate provided in Table 2 of the Phase  
14 2 Supplemental Direct Testimony of Christopher Cook has three major errors and two minor  
15 errors, which result in significantly overstated results;

16  
17 **Water Supply:** Table 4 of the Phase 2 Supplemental Direct Testimony of Christopher  
18 Cook improperly and significantly understates the amount of supply available from Pure Water  
19 Monterey Expansion, Aquifer Storage and Recovery (ASR), the Seaside Groundwater Basin, and  
20 the Sand City Water Supply Project (desalination plant); and Malpas water rights and wheeled  
21 water should be included. “Wheeled Water” refers to water supplied to Cal-Am’s distribution  
22 system by others and delivered by Cal-Am to serve demands on Cal-Am’s system.

23  
24 **Supply v. Demand:** With Pure Water Monterey Expansion and without a desalination  
25 plant, projected supplies can meet forecasted demands for more than 30 years.



1 **III. WATER DEMAND**

2  
3 Q5: What are the three major errors in the Cal-Am water demand forecast?

4 A5: 1) It adds water demand for legal lots of record to water demand for population growth; 2)  
5 It adds water demand for the Regional Housing Needs Allocation (RHNA) to water demand for  
6 population growth; and 3) It mistakenly increases the amount of water used per person per day in  
7 future years.

8  
9 The Cal-Am demand forecast in Table 2 of Cook’s Phase 2 Supplemental Direct  
10 Testimony starts with the population forecast from its 2020 Urban Water Management Plan  
11 (UWMP), but continues for an additional period to 2050. The UWMP states “The service area  
12 population will increase at the rate forecasted by AMBAG. For non-residential customers, water  
13 use will increase at the rate of employment growth forecasted by AMBAG”<sup>3</sup> “AMBAG” is the  
14 Association of Monterey Bay Area Governments, an independent regional planning agency. Using  
15 an independent third party with expertise in demographic forecasting is an acceptable approach.  
16 AMBAG has captured the factors that influence both residential and non-residential water demand  
17 growth in its Regional Growth Forecast. AMBAG’s Final 2022 Regional Growth Forecast which  
18 Ian Crooks of Cal-Am included as Attachment D to his Phase 2 Direct Testimony was the basis  
19 for the UWMP demand forecast and Table 2 to Cook’s Phase 2 Supplemental Direct Testimony. It  
20 is important to also note that AMBAG has already begun work on its 2026 Regional Growth  
21 Forecast and reflects “population projections are substantially lower than in the 2022 Regional  
22 Growth Forecast” and “job projections are also lower than in the 2022 RGF,”<sup>4</sup> meaning that the  
23 demand projections in Table 2 of Cook’s testimony will be too high.

24  
25  
26 \_\_\_\_\_  
27 <sup>3</sup> Phase 2 Direct Testimony of Ian C. Crooks, Attachment A, Cal-Am 2020 Urban Water Management Plan, p. 4-7.

28 <sup>4</sup> AMBAG Board of Directors Agenda, January 10, 2024, pages 41-45 of 56; Document may be found at:  
<https://www.ambag.org/sites/default/files/2024-01/AMBAG%20January%202024%20Agenda.pdf>

1 “Legal Lots of Record” shown in the table (line 5, page 4) are empty lots upon which  
2 housing and businesses could be built. Empty lots themselves do not use water or increase water  
3 demand.

4  
5 The same is true for the “RHNA Demands” shown in the table (line 9, page 4). RHNA  
6 stands for Regional Housing Needs Assessment and are housing numbers projected to meet future  
7 populations. Empty houses themselves do not use water or increase water demand.

8  
9 Population moves to the area and lives in either existing housing stock or new housing  
10 stock that is built on Legal Lots of Record. The new 6<sup>th</sup> Cycle Regional Housing Needs Allocation  
11 Plan is reflected within the AMBAG Regional Growth Forecast. Houses and lots don’t use water,  
12 people do – population estimates drive water demand, not housing stock and buildable lot  
13 estimates. Cal-Am already captures Residential Demand for population (see bottom line of Table  
14 2 on page 3 of Cook’s testimony.) Thus, adding water for Legal Lots of Record is double  
15 counting. Adding water for RHNA housing stock is triple counting.

16  
17 Q6: How does the third major error, an increase in the amount of water used per person per day  
18 in future years impact the demand forecast?

19 A6: The third major error is stated on page 4, lines 19-21 of the Phase 2 Supplemental Direct  
20 Testimony of Cook: “Table 2 above also anticipates that residential use could increase by 10% to  
21 60.7 GPCD by 2030 when a new permanent water supply source sufficient to meet long-term  
22 demand becomes available...” This is reflected in the Residential Demand section of the table  
23 (line 27, page 3) where GPCD stands for “gallons per capita per day.” A rising GPCD causes the  
24 residential water demand to be overstated in future years.

25  
26 A rising GPCD is both counterintuitive and inconsistent with historic data, as well as  
27 current and future regulations. Residential per-capita water use will not increase over time and is

1 expected to decline because of plumbing codes, appliance and fixture turnover, and new  
2 technology in existing and new housing. In addition to numerous local efficiency requirements,  
3 water waste restrictions, and tiered rates, the adoption of “Making Water Conservation a  
4 California Way of Life” (Senate Bill 606 and Assembly Bill 1668 of 2018), and its predecessor  
5 “the Water Conservation Act of 2009”<sup>5</sup> will result in further reductions in per-capita use.

6  
7 Recently amended State law (Water Code Section 10609.4) sets efficiency standards for  
8 indoor residential water use beginning with 55 gallons per capita per day (“GPCD”) until 2025, 47  
9 GPCD from 2025-2030, then 42 GPCD thereafter. The recommendation to reduce GPCD came  
10 from the Department of Water Resources (“DWR”) and the State Water Resources Control Board  
11 (“SWRCB”) after the completion of the Indoor Residential Water Use Study<sup>6</sup> (“IRWUS”) by the  
12 Pacific Institute. Note that the IRWUS found that lower GPCD will occur without the “active”  
13 conservation programs such as rebates, conservation-oriented rate structures, and education  
14 programs which can provide additional water savings.

15  
16 Water Code Section 10609 also requires the DWR and the SWRCB to develop standards  
17 for both residential and non-residential outdoor water use. The resulting implementation of state-  
18 mandated Urban Water Use Objectives by Cal-Am will result in more efficient landscapes and  
19 reduced outdoor water use, which will contribute to a reduction in overall residential demand and  
20 GPCD.

21  
22 It is also counterintuitive that a person would use more water than at the present when the  
23 cost of water becomes 40%-60% higher due to the costs of a new water supply project, when that  
24 same person is not restricted from water use today (if a customer opens the tap today, water comes  
25

---

26 <sup>5</sup> Included as Attachments A and B to the Phase 2 Direct Testimony of Stephanie Locke, dated August 19, 2022

27 <sup>6</sup> Attachment K, Results of Indoor Residential Water Use Study, to the Phase 2 Direct Testimony of Stephanie Locke,  
28 dated August 19, 2022

1 out.) In fact, Cal-Am’s own witness in its current General Rate Case says “The Law of Demand is  
2 a fundamental principle in economics that states that as the price of a good or service increases,  
3 the quantity demanded of that good or service will decrease... It is one of the most widely  
4 accepted principles in economics and has been supported by extensive empirical research. It is  
5 incontrovertible that the Law of Demand applies to residential water service.”<sup>7</sup> With the  
6 desalination plant expected to cost \$300 to \$400 million, it could add as much as 50% or more to  
7 the revenue requirement, and thus rates.

8  
9 Q7: What are the two minor errors in Table 2 of Cook’s Phase 2 Supplemental Direct  
10 Testimony?

11 A7: He includes Pebble Beach Entitlements and Tourism Rebound as additional water demand,  
12 when in fact they are already captured in the Residential and Non-Residential Demand forecasts of  
13 Table 2.

14  
15 Pebble Beach Entitlements are set aside to build new housing or commercial uses within  
16 Pebble Beach. However, they are also already included in the AMBAG Regional Growth Forecast  
17 for the unincorporated County – within Residential Demand for population growth and within  
18 Non-Residential Demand for new hotel rooms and other commercial uses.

19  
20 Tourism Rebound has already occurred with no corresponding increase in commercial  
21 water use. This is an antiquated and no longer relevant concept that is no longer justified. Such a  
22 factor should not be added as additional water demand in future years. The 500 acre-feet per year  
23 (AFY) for economic recovery was originally suggested by the local hospitality industry in 2012 –  
24 over a decade ago – to account for a recovery of occupancy rates in the tourist industry in a post-  
25 World Trade Center tragedy setting. Representatives of the Coalition of Peninsula Businesses

26  
27 <sup>7</sup> Rebuttal Testimony of David Mitchell, witness for Cal-Am in CPUC Proceeding A.22-07-001, footnote 62, pages  
28 36-37, May 25, 2023

1 indicated in 2017 testimony that the hospitality industry was hurt by the recent recession and that  
2 occupancy rates need to increase by 12 to 15 percent to re-attain the levels of decades ago.<sup>8</sup> It is  
3 true that the Salinas-Monterey market was one of five California markets, out of 22, to experience  
4 significant declines after the events of 2001, from 71.8% in 2000 to 63.0% in 2001.<sup>9</sup> It is also true  
5 that the decline persisted and has not been revised at the time the MPWSP desalination plant was  
6 sized in April 2012, with occupancy rates of 62.8% in 2011-12 and 64.1% in 2012-13. However,  
7 occupancy rates have since recovered with no notable increase in water demand. Local hotel  
8 occupancy rates returned to approximately 70%-75% in the post-COVID years. In so far as  
9 Tourism Rebound has already occurred, a factor to reflect this former concern is no longer needed.

10  
11 Finally, Assembly Bill No. 1572, signed into law by the Governor on October 13, 2023,  
12 further restricts the use of potable water for irrigation of non-functional turf in commercial and  
13 institutional settings, putting additional pressure on reduced demand in the non-residential sector.

14  
15 Q8: How far off is Cal-Am's demand forecast?

16 A8: Cal-Am has overstated demand by at least 1,470 AF in 2030 and by 3,900 AF in 2050,  
17 possibly more, depending on assumptions, which is 14% too high in 2030 and 37% too high in  
18 2050.

19  
20 Q9: Does MPWMD have a demand forecast of its own to share?

21 A9: Yes. MPWMD adopted the following growth rates in water demand based on the  
22 AMBAG 2022 Regional Growth Forecast, similar to Cal-Am, and used current production, a  
23 measure of the total water required before losses or fire flows, as the base. However, in the Water  
24 Supply Assessment scenario analysis and drought risk assessment attached as Attachment A to  
25 this testimony, alternative growth rates in demand are evaluated.

26  
27 <sup>8</sup> See Attachment L to the Phase 2 Direct Testimony of David J. Stoldt, August 19, 2022.

28 <sup>9</sup> Id., p. 5, HVS San Francisco, August 19, 2003.

Table 1

Calculation of Future Year Water Demand Growth

	AF per Year Demand Growth
Water for Population	18.00
Water for Non-Residential	13.44
Total	31.44

Table 2

Demand Forecast – Expected Outcome Scenario

	Baseline 2025	2030	2035	2040	2045	2050
Residential	6,378	6,468	6,558	6,648	6,738	6,828
Non-Residential	3,435	3,502	3,569	3,636	3,703	3,771
Total	9,813	9,970	10,217	10,285	10,442	10,599

**IV. WATER SUPPLY**

Q10: On what assumptions about water supply does MPWMD disagree with Cal-Am?

A10: MPWMD is in general agreement with Cal-Am about the Carmel River and Pure Water Monterey base project sources of supply, but disagrees with Cal-Am’s view of Pure Water Monterey Expansion, Aquifer Storage and Recovery (ASR), the Seaside Groundwater Basin, and the Sand City Water Supply Project. Further, MPWMD believes that Malpaso LLC and Seaside Basin water wheeled by others should be included as sources.

Water supply available in any year is the aggregate of the many different sources of supply. The sources of supply can be divided into two categories: “Water Supplies not Affected by Drought” and “Water Supplies Affected by Drought”. Each of these are described below.

Table 3

Water Supplies not Affected by Drought

Source of Supply	Capacity (AFY)
Carmel River	3,376
Seaside Basin	1,474
Seaside Basin Wheeled	20
Malpaso	86
Pure Water Monterey Base	3,500

The Carmel River water right is considered not affected by drought because the aquifer refills to 95% or beyond with 6- to 8 weeks of river flow, which typically occurs in a “Normal” water year. Even in a “Below Normal” or “Dry” year, some replenishment occurs.

In our analysis, we initially value the Seaside Basin at 1,474 AFY instead of 774 AFY reflected in Table 4 of the Cook Phase 2 Supplemental Direct Testimony. The reason for this is that Cal-Am has adjusted for an “In Lieu” recharge program of 700 AFY beginning in the very first year of new supply availability. However, Cal-Am has in other forums indicated it would not begin the in lieu recharge until after it secures a desalination plant, a plant that MPWMD analysis shows unnecessary. Hence, we do account for such a recharge program in several of our scenarios analyzed in Attachment A hereto, but it is not a certainty that such a program is required when the full effects of stored water are considered.

Seaside Basin Wheeled water supply refers to just over 7 AFY that Montage Health and 13 AFY that the Ascent housing project has secured from other “Alternate Producers” with separate and distinct pumping rights under the Seaside Basin adjudication. Cal-Am will wheel this water. This amount could include surplus September Ranch water in the future, but it is not included here.

1 Malpaso water supply refers to water made available to Cal-Am by the Malpaso Water Company,  
2 LLC based on its own separate and distinct water license to meet Cal-Am demand by properties in  
3 the unincorporated Carmel Valley or the City of Carmel that have paid for water entitlements, as  
4 well as any excess which is allowed to serve other Cal-Am customers. It is subject to the same  
5 conclusions as the Carmel River water right held by Cal-Am, meaning not affected by drought.

6  
7 The Pure Water Monterey (PWM) Base project supply includes a variety of wastewater and PWM  
8 source waters that combined are approximately twice the requirements of the project. Monterey  
9 One Water (M1W) has a priority right to use the source waters.<sup>10</sup> All data presented to date by  
10 Monterey One Water (M1W), the owner and operator of the project, show no impact of drought on  
11 source water.

12  
13 Q11: What supply sources are impacted by drought?

14 A11: MPWMD defines “Drought” as two or more consecutive years when unimpaired  
15 streamflow data falls into the “Dry” or “Critically Dry” categories. Water year classifications and  
16 corresponding dependent supplies are shown in the tables in the Water Supply Assessment in  
17 Attachment A hereto.

18  
19 Three supply sources are considered affected by drought: Pure Water Monterey Expansion,  
20 Aquifer Storage and Recovery (ASR), and Sand City Desalination, as shown in the table below.

21  
22 //

23 //

24 //

25  
26 \_\_\_\_\_  
27 <sup>10</sup>PWM Source Waters include water in the Blanco Drain and Reclamation Ditch, urban storm water runoff from the  
28 cities of Salinas and Monterey, Salinas Agricultural Wash Water (Ag Wash Water), and treated water in Pond 3 at the  
Salinas Treatment Facility (also referred to as Pond Recovery Water).



Table 4

Water Supplies Affected by Drought<sup>11</sup>

Source of Supply	Capacity (AFY)
Pure Water Monterey Expansion	1,905 to 2,250
Aquifer Storage and Recovery	0 to 1,210
Sand City Desalination	160 to 200

Pure Water Monterey Expansion is based on documentation by M1W that in dry/drought years the PWM Expansion production will be approximately 345 AFY short in total from June through September (four months). However, the PWM base project can produce approximately 200 AFY of extra water in the winter months, yielding a net shortfall of 145 AFY. In the drought risk assessment attached as Attachment A hereto, scenarios are analyzed where the assumed shortfall is correlated to drought years and could be in the range of 145 AFY to 345 AFY, as further described in the “Scenario Analysis” section of Attachment A. Table 4 of Cook’s Phase 2 Supplemental Direct Testimony incorrectly suggests PWM Expansion could be 0 to 1,100 AFY in drought – which is directly refuted by the Phase 2 Supplemental Direct Testimony of Paul Sciuto, dated January 22, 2024.

MPWMD has long held that the yield of ASR is 1,300 AFY based on District data. However, for purposes of this analysis, MPWMD has adopted Cal-Am data presented in the Paul Findley, Sarp Sekeroglu “ASR Reliability Analysis” dated July 15, 2022, and included in the Cal-Am Phase 2 Direct Testimony of Paul Findley dated July 20, 2022, which is also included in Attachment A, Exhibit 3, hereto. In the Findley memorandum and testimony, he computes the average annual yield of ASR to be 1,210 AFY. However, the actual yield in a year depends on streamflow and

<sup>11</sup>M1W defines dry/drought years as years when the Salinas River Diversion Facility is not operated, typically “Dry” and “Critically Dry” years as documented by MPWMD. MPWMD defines drought as two or more “Dry” or “Critically Dry” years in a row.

1 rainfall, so Cal-Am’s witnesses obtained daily Carmel River flow records for 59 years (1963 to  
2 2021), and then prepared a hypothetical simulation in which they looked at the river flow for each  
3 day and determined if ASR diversion would have been permitted under present-day permit rules.  
4 If that day qualified as an injection day, they then determined if ASR injection would have been  
5 13.3 acre-feet per day (AFD) or 17 AFD for that day, depending on the amount of streamflow and  
6 the relevant permits. They then compiled and analyzed the results for each year. The range of  
7 yields is 0 AFY in a “Critically Dry” year to 2,843 AFY in an “Extremely Wet” year. Each year of  
8 the 59-year hydrologic cycle was entered individually and analyzed in the Water Supply  
9 Assessment’s drought risk assessment in Attachment A hereto.

10  
11 In the drought risk assessment in Attachment A hereto, three scenarios are analyzed (i) where the  
12 assumed ASR injection rate could have achieved the maximum 17 AFD, (ii) was limited to 13.3  
13 AFD, or worse, (iii) was only achievable at 75% of the 13.3 AFD due to unidentified persistent  
14 Cal-Am operating constraints, as further described in the “Scenario Analysis” section of  
15 Attachment A.

16  
17 Sand City Desalination is expected to provide 200 AFY in non-drought years once a new intake  
18 well is fully permitted, expected to occur before PWM Expansion comes online. However, during  
19 drought periods, it is assumed that Sand City Desalination provides a reduced 80% level beginning  
20 the second year of drought and restores to the 100% level a year after the drought ends. Cal-Am is  
21 incorrect to discount Sand City desalination to only 94 AFY because the Cal-Am demand forecast  
22 includes all Sand City demand, whether served by Cal-Am sources or Sand City’s own  
23 entitlement, and the source is being delivered through the Cal-Am distribution system. Any Sand  
24 City desalination produced is available supply to demands in Sand City or elsewhere.

25  
26 Q12: Is it true that Cal-Am has accounted only for available supplies of 470 AFY from ASR in a  
27 normal year, less during a drought?

1 A12: Yes, Cal-Am has previously testified to that<sup>12</sup>, and reasserts the claim in Table 4 of the  
2 Phase 2 Supplemental Direct Testimony of Cook, but it is the result of faulty technical analysis.

3  
4 Q13: What makes the Cal-Am technical analysis of ASR faulty?

5 A13: **It ignores the importance of storage.** In its testimony, Cal-Am states: “The capability of  
6 the ASR system to provide potable water to California American Water’s portfolio is highly  
7 unpredictable and depends entirely on rainfall conditions during a water year.”<sup>13</sup> This is not  
8 entirely correct. Instead, the capability of the ASR system to provide potable water to Cal-Am  
9 depends on rainfall conditions during a water year **and stored ASR water from prior years.**  
10 Cal-Am’s analysis focuses on injection in the water year and has mistakenly left storage  
11 completely out of the equation. In fact, in the Phase 2 Rebuttal Testimony of Paul Findley, the  
12 witness states “carry-over storage to the following year is not addressed...”<sup>14</sup> Instead, Findley  
13 relies on confidence levels for injection within a water year, but completely misses the importance  
14 of storage of excess supply from years available to when needed. Even the American Water Works  
15 Association (AWWA) recognizes ASR in its reliability assessment: “ASR wells can improve  
16 water basin management by storing water underground from periods of excess supply..., and later  
17 allowing a portion of the stored water to be extracted during periods of demand or short supply”<sup>15</sup>

18  
19 **V. SUPPLY v. DEMAND**

20  
21 Q14: How do MPWMD’s conclusions on future supplies versus demand differ from Cal-Am’s?  
22  
23  
24

25 \_\_\_\_\_  
<sup>12</sup> Phase 2 Direct Testimony of Ian C. Crooks, Corrected, dated July 25, 2022, p. 37 at line 12

26 <sup>13</sup> Id., p. 34, beginning at line 12.

27 <sup>14</sup> Phase 2 Rebuttal Testimony of Paul Findley, page 8, line 22, September 19, 2022.

28 <sup>15</sup> See Attachment O to Phase 2 Direct Testimony of David J. Stoldt, August 19, 2022, AWWA, “Water Resources Planning: Manual of Water Supply Practices M50”, 3<sup>rd</sup> Edition, p. 148.

1 A14: MPWMD believes that available supplies, even when adjusted for drought, will frequently  
2 exceed water demands to such a level as to allow a significant accumulation of storage, which Cal-  
3 Am has completely left out of their analysis.

4  
5 The aggregate total of water supplies available to serve customers in a year is the sum of  
6 “Water Supplies not Affected by Drought”, “Water Supplies Affected by Drought”, and stored (or  
7 “banked”) water. In many years, the sum not including stored water will exceed the total expected  
8 demand, due in part to the slow evolution of new population, housing, and jobs, creating a surplus  
9 that goes into storage. Furthermore, in years where rainfall and streamflow are significant, the  
10 amount available from ASR will add to the surplus. Alternatively, in years of drought or in later  
11 years when demand has grown, annual (in-year) supplies may produce less or no surplus.

12  
13 Surplus water must be tracked as “Stored Water”, within the limits of the law, to benefit the  
14 region’s water security. In any single year the supplies available to meet customer demand are the  
15 joint amount of supply available from sources in that year plus prior end-of-year storage.

16  
17 Q15: Has MPWMD analyzed the impact of stored water?

18 A15: Yes. MPWMD performed a multi-scenario Water Supply Assessment consistent with the  
19 State of California requirements for a UWMP and, specifically, a Water Shortage Contingency  
20 Plan in accordance with Sections 10632 and 10640 of the Act. The drought risk assessment  
21 compares water supplies available in the future under a normal water year, a single dry water year,  
22 and a drought lasting five consecutive water years. In the analysis in Attachment A hereto,  
23 MPWMD takes 59 years of actual water year data and reorders it to start in a 5-year drought in the  
24 first full year after the PWM Expansion project comes online, expected to be in late 2025.

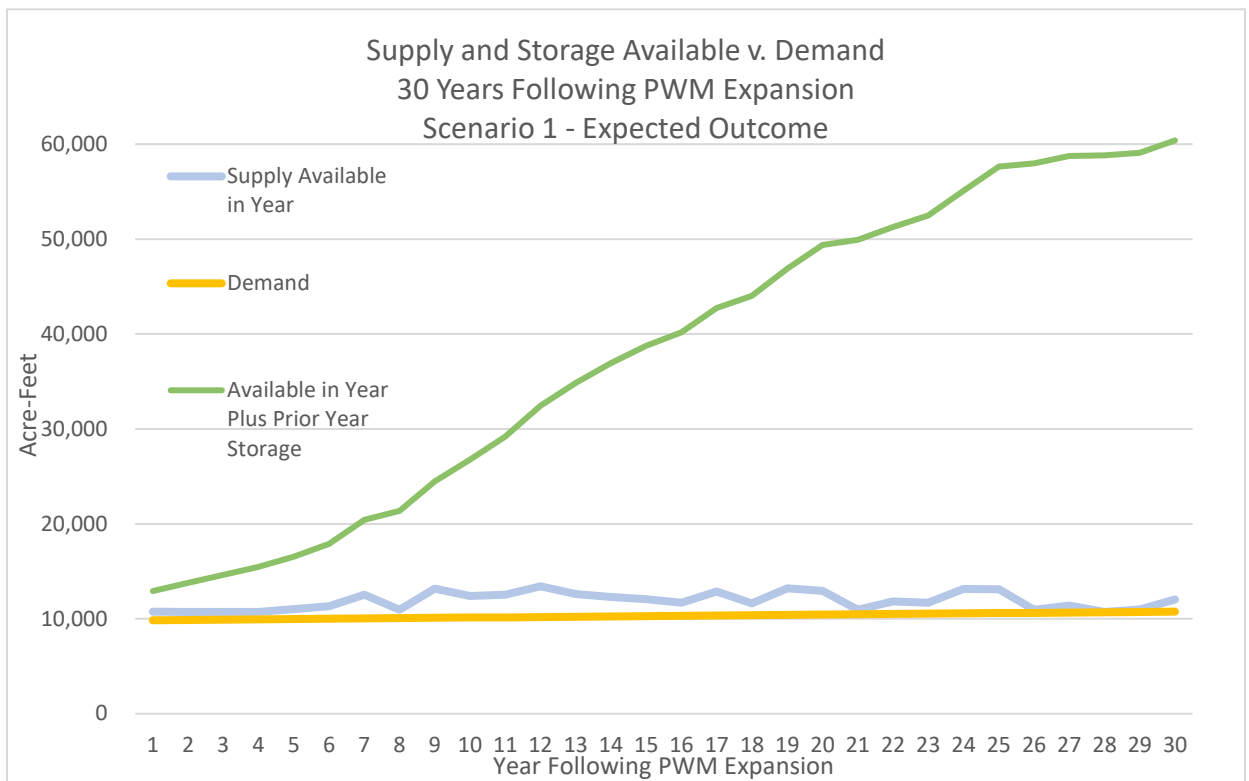
25  
26 The 59-year historical hydrology represents 1963 through 2021 and the 5-year drought began in  
27 1987. Once the pattern of climate, weather, and hydrology is established eight different supply v.

1 demand scenarios are analyzed. Each scenario is progressively more restrictive, meaning  
2 increasing demand expectations, reducing supply availability, or both at the same time. The eight  
3 scenarios analyzed are identified in Attachment A:

4  
5 *Scenario 1- Expected Outcome:*

- 6 • ASR injects up to 17 AF per day if weather and streamflow support it.
- 7 • PWM Expansion “borrows” 145 AFY from storage in drought years.
- 8 • Sand City Desalination is diminished 20% beginning 2<sup>nd</sup> drought year.
- 9 • Demand grows at AMBAG 2022 Regional Growth Forecast average rate.
- 10 • Start with 2,159 AF in storage – the ASR balance at the end of 2023. Does not include the  
11 PWM Operating Reserve storage.

12 The results of this most Expected Outcome are shown below. Notice how the green line – the total  
13 available supply – far exceeds the demand in all years.



1 Seven other alternative scenarios, each more restrictive than the next, were evaluated. The  
 2 results show that the Expected Outcome (Scenario 1) and three other more restrictive scenarios  
 3 provide sufficient water supply for the entire 59-year hydrologic cycle. Scenarios 1 – 7  
 4 demonstrate an adequate supply for over 30 years, with Scenario 8 demonstrating sufficient supply  
 5 for 26 years. Results are summarized in the table below:

6 Table 5  
 7 Results of Scenario Analysis

Scenario	Years of Supply Exceeding Demand	Storage at End of Period
Scenario 1	More than 59	65,507 AF
Scenario 2	More than 59	65,507 AF
Scenario 3	More than 59	65,444 AF
Scenario 4	More than 59	10,371 AF
Scenario 5	51	0 AF
Scenario 6	40	0 AF
Scenario 7	37	0 AF
Scenario 8	26	0 AF

19 In other words, existing Monterey Peninsula supplies, plus PWM Expansion, and adjusted  
 20 for drought occurrence, provide sufficient water for expected and higher water demand  
 21 requirements for approximately three decades or more, without the necessitation of a desalination  
 22 plant.

23  
 24 Q16: What else can stored water be used for?

25 A16: In addition to eliminating a need for a 10% supply contingency from bigger construction,  
 26 the stored water can be used for peaking to meet maximum month demands (MMD), maximum  
 27 day demand (MDD), and peak hourly demand (PHD) without building more supply projects. It is

1 always in the ratepayer’s interest to build one or two additional production wells for \$3 million  
2 each, rather than a \$300 to \$400 million desalination plant if saved or stored water can be utilized  
3 to meet peak demands.

4

5           Stored water can also be used as a drought reserve and to provide protective water levels in  
6 the Seaside Groundwater Basin. It may be possible that the Cal-Am proposed “In Lieu” recharge  
7 program for the Seaside Basin could be reduced or eliminated.

8

9 Q17: Does that conclude your Phase 2 Supplemental Direct Testimony?

10 A17: Yes.

11

12 Attachment A – 2024 Water Supply Assessment for Monterey Peninsula Water Management  
13 District including California American Main System

14           Exhibit 1: Monterey Peninsula Water Supply Assessment for 59 Years Following Pure  
15 Water Monterey Expansion

16           Exhibit 2: Monterey Peninsula Water Management District Technical Memorandum

17           Exhibit 3: Phase 2 Direct Testimony of Paul Findley

18           Exhibit 4: Seaside Basin Watermaster Annual Report - 2023

19

20

21

22

23

24

25

26

27

28

# Attachment A





2024 Water Supply Assessment  
for  
Monterey Peninsula Water Management District  
including  
California American Main System

(Considering Water Supply and Demand  
and  
Water Shortage Contingency Planning)

January 22, 2024

## **Summary**

The Monterey Peninsula Water Management District (MPWMD) has undertaken a Water Supply Assessment of the future water supplies available versus projected water use demand, considering resiliency to periodic droughts, including starting out in a 5-year drought following Pure Water Monterey Expansion coming online.

The reader is encouraged to read this Assessment in its entirety. However, the conclusive evidence shows that existing Monterey Peninsula water supplies, plus PWM Expansion, and adjusted for drought occurrence, provides sufficient water for expected and higher water demand requirements for more than three decades in most cases, without necessitation of a desalination plant.

## **Introduction to Water Supply Assessment**

Under California Water Code Section 10910, as a city or the county develops growth plans for jobs and housing on the Monterey Peninsula, the water supply assessment required under CEQA for the projects shall include a discussion with regard to whether the public water system's – in this case, California American Water Company's (Cal-Am's) – total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed projects, in addition to Cal-Am's existing and planned future uses.

If the projected water demand associated with the proposed projects was accounted for in the most recently adopted urban water management plan (UWMP), Cal-Am should provide the water supply assessment and incorporate the requested information from the urban water management plan in preparing and submitting the assessment within 90 days of the request, or request an extension of time.

The “Urban Water Management Planning Act” (Act) is comprised of Section 10610 through 10657 of the California Water Code Division 6, Part 2.6. Under Section 10620, every urban water supplier shall prepare and adopt a UWMP. An urban water supplier indirectly providing water, such as MPWMD as a wholesaler, shall not include planning elements in its water management plan as provided in Article 2 (commencing with Section 10630) that would be applicable to urban water suppliers or public agencies directly providing water, such as Cal-Am. Hence, it is Cal-Am that is obligated to work with a city or the county to provide a water supply assessment to assist with CEQA. However, that section of the Act also provides that each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable. MPWMD was not asked by Cal-Am to coordinate on its UWMP, nor does MPWMD agree with many of the assumptions and conclusions of Cal-Am's UWMP and subsequent Cal-Am supply and demand analysis.

As such, MPWMD has undertaken this Water Supply Assessment consistent with the State of

California requirements for an UWMP and, specifically, a Water Shortage Contingency Plan in accordance with Sections 10632 and 10640 of the Act.

### **Requirements of a Water Supply Assessment**

An UWMP is required to include current and projected population, climate, and other social, economic, and demographic factors affecting the supplier's water management planning. The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area to at least 20 years. It shall consider the current and projected land uses within the existing or anticipated service area, which the following analysis does.

The UWMP should identify and quantify, to the extent practicable, the existing and planned sources of water available over the same period, including detailed discussion of anticipated supply availability under a normal water year, single dry year, and droughts lasting at least five years, as well as more frequent and severe periods of drought, as described in the drought risk assessment. The analysis discussed below not only starts in a 5-year drought, but includes periodic droughts of 2 to 4 years.

Past and current water use and projected water use among water use sectors, such as single-family residential, multifamily, commercial, industrial, institutional, and governmental, and so on, including losses, should be considered.

The UWMP shall include a detailed description of expected future projects and programs that the urban water supplier may implement to increase the amount of the water supply available, as well as an implementation timeline. Here, because MPWMD disagrees with Cal-Am on the need for implementation of a desalination facility, MPWMD's Water Supply Assessment includes Pure Water Monterey Expansion, completion by the end of 2025, but excludes the Monterey Peninsula Water Supply Project desalination plant.

Section 10632 of the California Water Code also requires every urban water supplier to prepare and adopt a water shortage contingency plan (WSCP) as part of its UWMP that includes analysis of water supply reliability conducted pursuant to Section 10635 of the Code.

Section 10635 requires an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry water years. This water supply and demand assessment shall compare the total water supply sources available to the long-term total projected water use (demand) over at least the next 20 years for a normal water year, a single dry water year, and a drought lasting five consecutive water years.

The drought risk assessment shall include each of the following:

- (1) The data, methodology, and basis for one or more supply shortage conditions that are necessary to conduct a drought risk assessment for a **drought period that lasts five**

**consecutive water years**, starting from the year following when the assessment is conducted. Here, MPWMD’s assessment will evaluate starting in a 5-year drought coincident with the Pure Water Monterey Expansion coming online.

- (2) A determination of the reliability of each source of supply under a variety of water shortage conditions. This may include a determination that a particular source of water supply is fully reliable under most, if not all, conditions.
- (3) A comparison of the total water supply sources available to the total projected water use for the drought period.
- (4) Considerations of the historical drought hydrology, plausible changes on projected supplies and demands under climate change conditions, anticipated regulatory changes, and other locally applicable criteria, as included in this analysis.

Important to understand is that MPWMD defines “Drought” as two or more consecutive years where unimpaired streamflow data falls into the “Dry” or “Critically Dry” categories.

## **MPWMD’s Water Supply Assessment**

### *Water Demand:*

The projected population estimates are based on the Association of Monterey Bay Area Governments (AMBAG) adopted 2022 Regional Growth Forecast, a 25-year forecast.

Past water use and projected water use among water use sectors were “mapped” onto data showing “production for customer service”, based on actual Cal-Am consumption information for residential use (single-family residential and multifamily) and non-residential use (commercial, industrial, institutional, and governmental). Because each city or the county may grow at a different pace, the sectors were also analyzed by political jurisdiction, again using actual Cal-Am data, and then aggregated.

The percentages of historical consumption were then applied to “production for customer service” which is actual Cal-Am data showing how much water must be produced (supplied) into the system to satisfy customer demand. Hence, losses in the distribution system are accounted for because supply is calculated before it enters the distribution system.

Residential demand growth rate is based on the AMBAG population forecast growth rates by jurisdiction and non-residential demand is based on the AMBAG job growth rates as a proxy for economic growth.

This methodology was utilized in the MPWMD Adopted 2022 Supply and Demand Forecast attached hereto as Exhibit 2. That Demand Forecast indicated growth in water demand as follows:

Residential Water Demand Growth Rate:	18.00 acre-feet per year (AFY)
Non-Residential Water Demand Growth Rate:	13.44 AFY
Total Annual Growth Rate in Water Demand:	31.44 AFY

By comparison, the average growth in, or absorption of, water use in the decade preceding the State’s Cease and Desist Order (CDO) was during a period of relative economic stability, available property, no moratorium on new service connections, and lower water rates, yet only resulted in 16.4 AFY of new demand.

In the drought risk assessment below, scenarios are analyzed where the assumed growth rate in demand is doubled or more, as further described in the “Scenario Analysis” section.

The starting demand value, or “Base Year” assumed to be the year prior to the Pure Water Monterey (PWM) Expansion coming online, is 9,813 AF. That value is the 10-year average of actual production for customer service for Cal-Am 2014-23.

*Water Supply:*

Water supply available in any year is the aggregate of the many different sources of supply. The sources of supply can be divided into two categories: “Water Supplies not Affected by Drought” and “Water Supplies Affected by Drought”. Each of these are described below.

Water Supplies not Affected by Drought

Source of Supply	Capacity (AFY)
Carmel River	3,376
Seaside Basin	1,474
Seaside Basin Wheeled	20
Malpaso	86
Pure Water Monterey Base	3,500

The Carmel River water right is considered not affected by drought because the aquifer refills to 95% or beyond with 6- to 8-weeks of river flow, which typically occurs in a “Normal” water year. Even in a “Below Normal” or “Dry” year, some replenishment occurs.

The volume of “Usable Storage” of the Carmel Valley Alluvial Aquifer is 28,458 AF. In 2022, a “Dry” year, all known wells produced 5,421 AFY. Thus, a full aquifer can meet approximately a 5-year pumping demand.

Furthermore, recent historical data shows that drought periods were preceded or followed by water years that would likely have refilled to aquifer to 95% or greater, as shown in the table below:

Period	# of Years of Drought	Water Year Type
1976-77	2	Before: "Above Normal" After: "Extremely Wet"
1987-91	5	Before: "Wet" After: "Normal"
2012-15	4	Before: "Above Normal" After: "Normal"
2021-22	2	Before: "Normal" After: "Extremely Wet"

Regarding the Seaside Basin, there is no evidence from the most recent three droughts that reductions in pumping were required.

Seaside Basin Wheeled water supply refers to just over 7 AFY that Montage Health and 13 AFY that the Ascent housing project have secured from other "Alternate Producers" with separate and distinct pumping rights under the Seaside Basin adjudication. Again, there is no evidence from the most recent three droughts that reductions in pumping were required. This amount could include surplus September Ranch water in the future, but it is not included here.

Malpaso water supply refers to water made available to Cal-Am by the Malpaso Water Company, LLC based on its own separate and distinct water license to meet Cal-Am demand by properties in the unincorporated Carmel Valley or the City of Carmel that have paid for water entitlements, as well as any excess which is allowed to serve other Cal-Am customers. It is subject to the same conclusions as the Carmel River water right held by Cal-Am, meaning not affected by drought.

The Pure Water Monterey (PWM) Base project supply amount is deemed to be not affected by drought because the source waters to meet the supply are approximately twice the requirements of the project, and the PWM Base project has a first right to that source water. All data presented to date by Monterey One Water (M1W), the owner and operator of the project, show no impact of drought on source water.

#### Water Supplies Affected by Drought

Source of Supply	Capacity (AFY)
Pure Water Monterey Expansion	1,905 to 2,250
Aquifer Storage and Recovery	0 to 1,210
Sand City Desalination	160 to 200

Pure Water Monterey Expansion is based on documentation by M1W that in dry/drought years the PWM Expansion production will be approximately 345 AFY short in total from June through September (four months). However, the PWM Base project can produce approximately 200 AFY of extra water in the winter months, yielding a net shortfall of 145 AFY for the combined expanded project. In the drought risk assessment below, scenarios are analyzed where the assumed shortfall is correlated to "Dry" and "Critically Dry" years when the Salinas River

Diversion Facility (SRDF) is not available and could be in the range of 145 AFY to 345 AFY, as further described in the “Scenario Analysis” section.

MPWMD has long held that the yield of Aquifer Storage and Recovery (ASR) is 1,300 AFY based on District data. However, for purposes of this analysis MPWMD has accepted Cal-Am data presented in the Paul Findley, Sarp Sekeroglu “ASR Reliability Analysis” dated July 15, 2022 and included in the Cal-Am Phase 2 Direct Testimony of Paul Findley dated July 20, 2022 and attached as Exhibit 3 hereto. In the Findley memorandum and testimony, he computes the average annual yield of ASR to be 1,210 AFY. However, the actual yield in a year depends on streamflow and rainfall, so Cal-Am’s witnesses obtained daily Carmel River flow records for 59 years (1963 to 2021), and then prepared a hypothetical simulation in which they looked at the river flow for each day and determined if ASR diversion would have been permitted under present day permit rules. If that day qualified as an injection day, they then determined if ASR injection would have been 13.3 acre-feet per day (AFD) or 17 AFD for that day, depending on the amount of streamflow and the relevant permits. They then compiled and analyzed the results for each year. The range of yields is 0 AFY in a “Critically Dry” year to 2,843 AFY in an “Extremely Wet” year. Each year of a 59-year hydrologic cycle was entered individually.

In the drought risk assessment below, scenarios are analyzed where the assumed ASR injection rate could have achieved the maximum 17 AFD, was limited to the 13.3 AFD, or worse, was only achievable at 75% of the 13.3 AFD due to persistent Cal-Am operating constraints, which might include limited Carmel Valley well capacity or other causes, as further described in the “Scenario Analysis” section.

Sand City Desalination is expected to provide 200 AFY in non-drought years once a new intake well is fully permitted, expected to be before PWM Expansion comes online. However, during drought periods, it is assumed that Sand City Desalination provides a reduced 80% level beginning the second year of drought and restores to the 100% level a year after the drought ends.

Again, MPWMD defines “Drought” as two or more consecutive years when unimpaired streamflow data falls into the “Dry” or “Critically Dry” categories. Water year classifications and corresponding dependent supplies are shown in the tables attached in Exhibit 1.

*Storage:*

The aggregate total of water supplies available to serve customers in a year is the sum of “Water Supplies not Affected by Drought”, “Water Supplies Affected by Drought”, and stored (or “banked”) water. In many years, the sum not including stored water will exceed total expected demand, due in part to the slow evolution of accumulated demand and market absorption of new population, housing, and jobs, creating a surplus which goes into storage. Furthermore, in years where rainfall and streamflow are significant, the amount available from ASR may add to a surplus. Alternatively, in years of drought or in later years when demand has grown, annual (in year) supplies may become strained.

Surplus water must be tracked as “Stored Water”, within the limits of the law, to benefit the region’s water security. In any single year the supplies available to meet customer demand are the joint amount of supply available from sources in that year plus prior end-of-year storage.

However, “Stored Water” will only be stored in the Seaside Basin and is limited by storage rights in that adjudicated basin. The Cal-Am storage rights in the Seaside Basin are 68,382 AF as shown in Exhibit 4 hereto. Assuming that MPWMD desires to hold a separate Operating Reserve of 2,875 AF for PWM, storage rights should be considered to be a maximum of 65,507 AF. The drought risk assessment below reflects such a limit.

## Scenario Analysis

This Water Supply Assessment is consistent with the State of California requirements for an UWMP and, specifically, a Water Shortage Contingency Plan in accordance with Sections 10632 and 10640 of the Act. The drought risk assessment compares water supplies available in the future under normal water year, a single dry water year, and a drought lasting five consecutive water years. In the analysis that follows, MPWMD takes 59 years of actual water year data and reorders it to start in a 5-year drought in the first year that the PWM Expansion project comes online, expected to be in 2026.

The 59-year historical hydrology represents 1963 through 2021 and the 5-year drought began in 1987. Once the pattern of climate, weather, and hydrology is established eight different supply v. demand scenarios are analyzed. Each scenario is progressively more restrictive, meaning increasing demand expectations, reducing supply availability, or both at the same time. The eight scenarios analyzed are identified below:

### *Scenario 1- Expected Outcome:*

- ASR injects up to 17 AF per day if weather and streamflow support it.
- PWM Expansion “borrows” 145 AFY from storage in drought years.
- Sand City Desalination is diminished 20% beginning 2<sup>nd</sup> drought year.
- Demand grows at AMBAG 2022 Regional Growth Forecast average rate.
- Start with 2,159 AF in storage – the ASR balance at the end of 2023. Does not include the PWM Operating Reserve storage.

### *Scenario 2:*

- Same as Scenario 1, but ASR injection reduced, limited to wells ASR wells 1 & 2, or 13.3 AF per day.

### *Scenario 3:*

- Same as Scenario 2, but PWM Expansion “borrows” 345 AFY in drought years, with no winter “pay back”.

### *Scenario 4:*



- Same as Scenario 3, but demand grows at double (2x) the AMBAG rates. This addresses concerns of certain people who believe there is “pent-up demand” such that growth will exceed AMBAG’s Regional Growth Forecast.

*Scenario 5:*

- Same as Scenario 4, but supplies reduced by 700 AFY of Seaside “In Lieu Recharge” beginning in year 6 for 25 years.

*Scenario 6:*

- Same as Scenario 5, but assumes ASR injection at 75% of the 13.3 AFD due to unidentified persistent Cal-Am operating constraints.

*Scenario 7:*

- Same as Scenario 6, but zero starting (Year 1) storage balance.

*Scenario 8:*

- Same as Scenario 7, but residential demand grows at triple (3x) the AMBAG rates and non-residential demand grows at double (2x) the AMBAG rates. This addresses concerns of certain people that housing demands will be met more quickly and population will grow much faster than AMBAG’s Regional Growth Forecast.

**Results of Scenario Analysis**

Each Scenario is shown in Exhibit 1, attached. The results show that the Expected Outcome (Scenario 1) and three other more restrictive scenarios provide sufficient water supply for the entire 59-year hydrologic cycle. Scenarios 1 – 7 demonstrate an adequate supply for over 30 years, with Scenario 8 demonstrating sufficient supply for 26 years. Results are summarized in the table below:

Scenario	Years of Supply Exceeding Demand	Storage at End of Period
Scenario 1	More than 59	65,507 AF
Scenario 2	More than 59	65,507 AF
Scenario 3	More than 59	65,444 AF
Scenario 4	More than 59	10,371 AF
Scenario 5	51	0 AF
Scenario 6	40	0 AF
Scenario 7	37	0 AF
Scenario 8	26	0 AF

In other words, existing Monterey Peninsula supplies, plus PWM Expansion, and adjusted for drought occurrence, provides sufficient water for expected and higher water demand requirements for approximately three decades or more, without necessitation of a desalination plant.

## Exhibit 1

Monterey Peninsula Water Supply Assessment  
For 59 Years Following Pure Water Monterey Expansion

Scenario 1

Forecast Year	Water Year Class	Derived From Year	Water Supplies not Affected by Drought					Water Supplies Affected by Drought					Water Demand					Available in Year Plus Prior Year Storage				
			Carmel River	Seaside Basin	Seaside Basin	Wheeled Basin	Seaside Basin	Malpasos	Monterey Base	Monterey Expansion	Aquifer Storage & Recovery (ASR)	Sand City	Desal	Total Available	Residential Demand	Water Demand	Non-Residential Demand		Total Demand	Surplus	Deficit	Stored Water EOY
1	Dry	1987	3,376	1,474	20	86	3,500	2,105	0	200	10,761	6,396	3,448	9,844	917	0	3,076	12,920				
2	Critically Dry	1988	3,376	1,474	20	86	3,500	2,105	0	160	10,721	6,414	3,461	9,876	845	0	3,921	13,797				
3	Critically Dry	1989	3,376	1,474	20	86	3,500	2,105	0	160	10,721	6,432	3,475	9,907	814	0	4,735	14,642				
4	Critically Dry	1990	3,376	1,474	20	86	3,500	2,105	0	160	10,721	6,450	3,488	9,939	782	0	5,517	15,456				
5	Dry	1991	3,376	1,474	20	86	3,500	2,105	307	160	11,028	6,468	3,502	9,970	1,058	0	6,575	16,546				
6	Normal	1992	3,376	1,474	20	86	3,500	2,250	449	160	11,315	6,486	3,515	10,002	1,314	0	7,889	17,891				
7	Wet	1993	3,376	1,474	20	86	3,500	2,250	1,643	200	12,549	6,504	3,529	10,033	2,516	0	10,405	20,438				
8	Critically Dry	1994	3,376	1,474	20	86	3,500	2,105	187	200	10,948	6,522	3,542	10,065	884	0	11,289	21,353				
9	Extremely Wet	1995	3,376	1,474	20	86	3,500	2,250	2,262	200	13,168	6,540	3,556	10,096	3,072	0	14,361	24,457				
10	Above Normal	1996	3,376	1,474	20	86	3,500	2,250	1,511	200	12,417	6,558	3,569	10,127	2,290	0	16,651	26,778				
11	Above Normal	1997	3,376	1,474	20	86	3,500	2,250	1,627	200	12,533	6,576	3,582	10,159	2,374	0	19,025	29,184				
12	Extremely Wet	1998	3,376	1,474	20	86	3,500	2,250	2,515	200	13,421	6,594	3,596	10,190	3,231	0	22,256	32,446				
13	Normal	1999	3,376	1,474	20	86	3,500	2,250	1,705	200	12,611	6,612	3,609	10,222	2,389	0	24,646	34,867				
14	Above Normal	2000	3,376	1,474	20	86	3,500	2,250	1,390	200	12,296	6,630	3,623	10,253	2,043	0	26,689	36,942				
15	Normal	2001	3,376	1,474	20	86	3,500	2,250	1,159	200	12,065	6,648	3,636	10,285	1,781	0	28,469	38,754				
16	Below Normal	2002	3,376	1,474	20	86	3,500	2,250	803	200	11,709	6,666	3,650	10,316	1,393	0	29,862	40,178				
17	Normal	2003	3,376	1,474	20	86	3,500	2,250	1,974	200	12,880	6,684	3,663	10,347	2,533	0	32,395	42,743				
18	Below Normal	2004	3,376	1,474	20	86	3,500	2,250	735	200	11,641	6,702	3,676	10,379	1,262	0	33,657	44,036				
19	Wet	2005	3,376	1,474	20	86	3,500	2,250	2,310	200	13,216	6,720	3,690	10,410	2,806	0	36,463	46,874				
20	Wet	2006	3,376	1,474	20	86	3,500	2,250	2,027	200	12,933	6,738	3,703	10,442	2,491	0	38,955	49,396				
21	Critically Dry	2007	3,376	1,474	20	86	3,500	2,105	193	200	10,954	6,756	3,717	10,473	481	0	39,436	49,909				
22	Normal	2008	3,376	1,474	20	86	3,500	2,250	936	200	11,842	6,774	3,730	10,505	1,338	0	40,773	51,278				
23	Normal	2009	3,376	1,474	20	86	3,500	2,250	802	200	11,708	6,792	3,744	10,536	1,172	0	41,945	52,481				
24	Above Normal	2010	3,376	1,474	20	86	3,500	2,250	2,232	200	13,138	6,810	3,757	10,568	2,571	0	44,516	55,083				
25	Above Normal	2011	3,376	1,474	20	86	3,500	2,250	2,205	200	13,111	6,828	3,771	10,599	2,512	0	47,028	57,627				
26	Dry	2012	3,376	1,474	20	86	3,500	2,105	201	200	10,962	6,846	3,784	10,630	332	0	47,360	57,990				
27	Dry	2013	3,376	1,474	20	86	3,500	2,105	684	160	11,405	6,864	3,797	10,662	743	0	48,103	58,765				
28	Critically Dry	2014	3,376	1,474	20	86	3,500	2,105	0	160	10,721	6,882	3,811	10,693	28	0	48,131	58,824				
29	Dry	2015	3,376	1,474	20	86	3,500	2,105	253	160	10,974	6,900	3,824	10,725	249	0	48,380	59,105				
30	Normal	2016	3,376	1,474	20	86	3,500	2,250	1,148	160	12,014	6,918	3,838	10,756	1,258	0	49,638	60,395				

# Exhibit 1

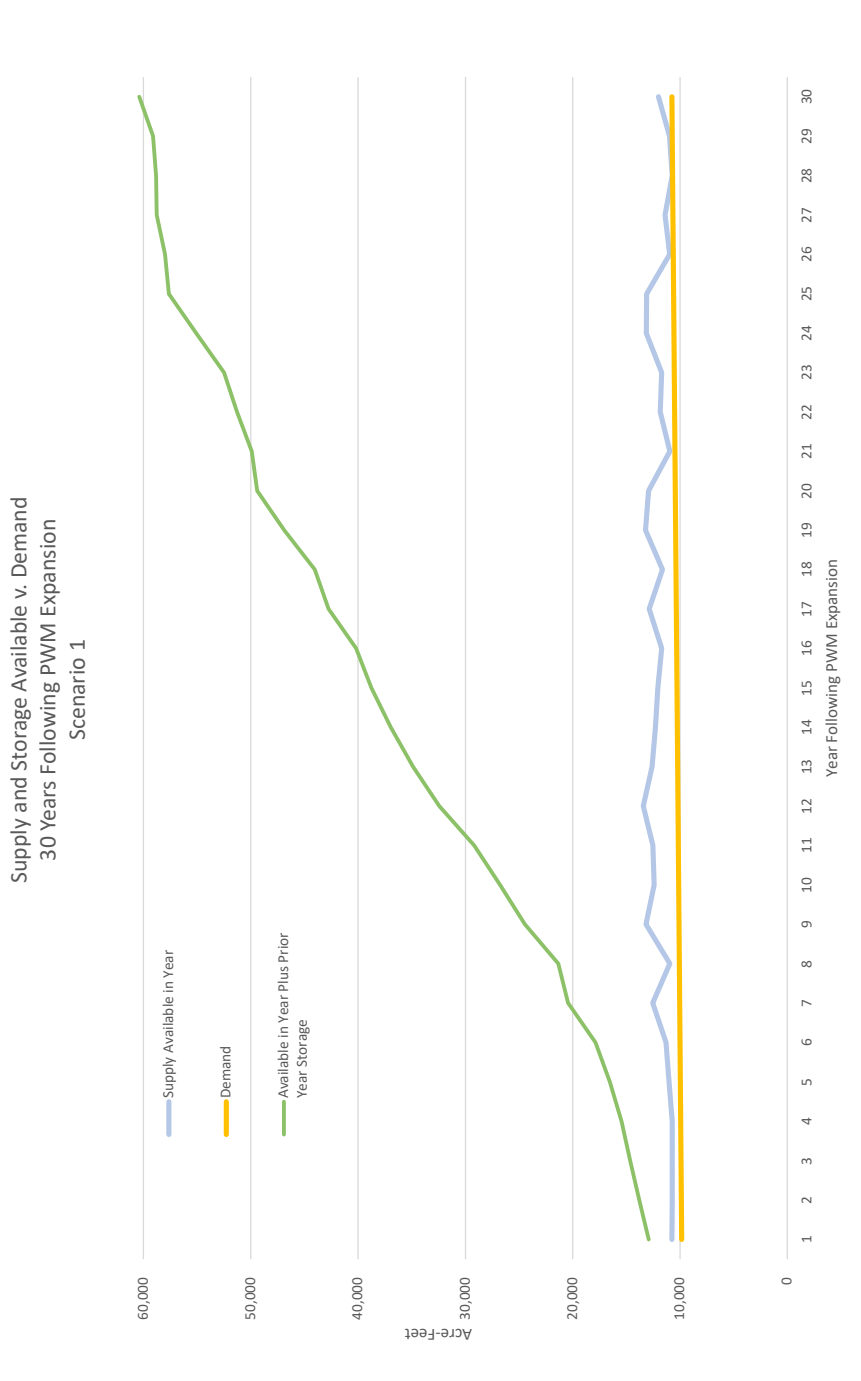
31	Extremely Wet	2017	3,376	1,474	20	86	3,500	2,250	2,383	200	13,289	6,936	3,851	10,788	2,502	0	52,140	62,928
32	Below Normal	2018	3,376	1,474	20	86	3,500	2,250	265	200	11,171	6,954	3,865	10,819	352	0	52,492	63,311
33	Extremely Wet	2019	3,376	1,474	20	86	3,500	2,250	2,026	200	12,932	6,972	3,878	10,851	2,082	0	54,574	65,424
34	Normal	2020	3,376	1,474	20	86	3,500	2,250	1,640	200	12,546	6,990	3,892	10,882	1,664	0	56,238	67,120
35	Dry	2021	3,376	1,474	20	86	3,500	2,105	80	200	10,841	7,008	3,905	10,913	0	72	56,166	67,079
36	Above Normal	1963	3,376	1,474	20	86	3,500	2,250	1,825	200	12,731	7,026	3,918	10,945	1,786	0	57,952	68,897
37	Dry	1964	3,376	1,474	20	86	3,500	2,105	347	200	11,108	7,044	3,932	10,976	132	0	58,084	69,060
38	Normal	1965	3,376	1,474	20	86	3,500	2,250	1,389	200	12,295	7,062	3,945	11,008	1,287	0	59,372	70,379
39	Dry	1966	3,376	1,474	20	86	3,500	2,105	787	200	11,548	7,080	3,959	11,039	509	0	59,881	70,920
40	Wet	1967	3,376	1,474	20	86	3,500	2,250	2,227	200	13,133	7,098	3,972	11,071	2,063	0	61,943	73,014
41	Critically Dry	1968	3,376	1,474	20	86	3,500	2,105	120	200	10,881	7,116	3,986	11,102	0	221	61,722	72,824
42	Extremely Wet	1969	3,376	1,474	20	86	3,500	2,250	1,974	200	12,880	7,134	3,999	11,133	1,747	0	63,469	74,603
43	Normal	1970	3,376	1,474	20	86	3,500	2,250	1,247	200	12,153	7,152	4,012	11,165	988	0	64,457	75,622
44	Below Normal	1971	3,376	1,474	20	86	3,500	2,250	1,024	200	11,930	7,170	4,026	11,196	734	0	65,191	76,388
45	Critically Dry	1972	3,376	1,474	20	86	3,500	2,105	147	200	10,908	7,188	4,039	11,228	0	320	64,872	76,099
46	Wet	1973	3,376	1,474	20	86	3,500	2,250	2,052	200	12,958	7,206	4,053	11,259	1,699	0	65,507	77,830
47	Above Normal	1974	3,376	1,474	20	86	3,500	2,250	2,282	200	13,188	7,224	4,066	11,291	1,898	0	65,507	78,695
48	Above Normal	1975	3,376	1,474	20	86	3,500	2,250	1,742	200	12,648	7,242	4,080	11,322	1,326	0	65,507	78,155
49	Critically Dry	1976	3,376	1,474	20	86	3,500	2,105	0	200	10,761	7,260	4,093	11,354	0	592	64,915	76,268
50	Critically Dry	1977	3,376	1,474	20	86	3,500	2,105	0	160	10,721	7,278	4,107	11,385	0	664	64,251	75,636
51	Extremely Wet	1978	3,376	1,474	20	86	3,500	2,250	2,366	200	13,232	7,296	4,120	11,416	1,816	0	65,507	77,483
52	Normal	1979	3,376	1,474	20	86	3,500	2,250	1,735	200	12,641	7,314	4,133	11,448	1,193	0	65,507	78,148
53	Extremely Wet	1980	3,376	1,474	20	86	3,500	2,250	2,199	200	13,105	7,332	4,147	11,479	1,626	0	65,507	78,612
54	Below Normal	1981	3,376	1,474	20	86	3,500	2,250	1,150	200	12,056	7,350	4,160	11,511	545	0	65,507	77,563
55	Extremely Wet	1982	3,376	1,474	20	86	3,500	2,250	2,587	200	13,493	7,368	4,174	11,542	1,951	0	65,507	79,000
56	Extremely Wet	1983	3,376	1,474	20	86	3,500	2,250	2,843	200	13,749	7,386	4,187	11,574	2,176	0	65,507	79,256
57	Normal	1984	3,376	1,474	20	86	3,500	2,250	1,658	200	12,564	7,404	4,201	11,605	959	0	65,507	78,071
58	Dry	1985	3,376	1,474	20	86	3,500	2,105	507	200	11,268	7,422	4,214	11,637	0	368	65,139	76,775
59	Wet	1986	3,376	1,474	20	86	3,500	2,250	1,528	200	12,434	7,440	4,228	11,668	766	0	65,507	77,573

Notes: Seaside Basin Wheeled is comprised of 7.17 AF to Montage and 13 AF to Seaside Ascent project  
 Malpasco is assumed to be 86 AFY production; less losses yields 80 AFY available to meet customer demand  
 ASR Uses actual 59-year record produced by Cal-Am witness in Phase 2 testimony to CPUC, starting in 1987 drought year  
 Sand City Desal assumes 200 AFY with new intake well online; During 2nd year of drought and remaining drought year 20% reductor

Base Year Water Demand is 9,813 AF, the 2023 10-year average; Assume to be split 65% Residential, 35% Non-Residential  
 Residential Demand yearly increase: 18 AFY based on 2022 AMBAG Regional Growth Forecast (population)  
 Non-Residential yearly increase: 13.44 AFY based on 2022 AMBAG Regional Growth Forecast (jobs)

Initial storage includes ASR balance, excludes PWM Operating Reserve

# Exhibit 1



Monterey Peninsula Water Supply Assessment  
For 59 Years Following Pure Water Monterey Expansion

Scenario 2

Forecast Year	Water Year Class	Derived From Year	Water Supplies not Affected by Drought				Water Supplies Affected by Drought				Water Demand				Total Water Demand	Surplus	Deficit	Stored Water EOY	Available in Year Plus Prior Year Storage
			Carmel River	Seaside Basin	Seaside Basin	Malpasos	Pure Water Monterey Base	Pure Water Monterey Expansion	Aquifer Storage & Recovery (ASR)	Sand City Desal	Total Water Available	Residential Water Demand	Non-Residential Water Demand	Residential Water Demand					
1	Dry	1987	3,376	1,474	20	86	3,500	2,203	1,055	193	11,907	6,378	3,448	9,844	917	0	3,076	12,920	
2	Critically Dry	1988	3,376	1,474	20	86	3,500	2,105	0	200	10,761	6,396	3,461	9,876	845	0	3,921	13,797	
3	Critically Dry	1989	3,376	1,474	20	86	3,500	2,105	0	160	10,721	6,414	3,475	9,907	814	0	4,735	14,642	
4	Critically Dry	1990	3,376	1,474	20	86	3,500	2,105	0	160	10,721	6,450	3,488	9,939	782	0	5,517	15,456	
5	Dry	1991	3,376	1,474	20	86	3,500	2,105	307	160	11,028	6,468	3,502	9,970	1,058	0	6,575	16,546	
6	Normal	1992	3,376	1,474	20	86	3,500	2,250	373	160	11,239	6,486	3,515	10,002	1,238	0	7,813	17,815	
7	Wet	1993	3,376	1,474	20	86	3,500	2,250	1,413	200	12,319	6,504	3,529	10,033	2,286	0	10,099	20,132	
8	Critically Dry	1994	3,376	1,474	20	86	3,500	2,105	187	200	10,948	6,522	3,542	10,065	884	0	10,983	21,047	
9	Extremely Wet	1995	3,376	1,474	20	86	3,500	2,250	1,933	200	12,839	6,540	3,556	10,096	2,743	0	13,726	23,822	
10	Above Normal	1996	3,376	1,474	20	86	3,500	2,250	1,280	200	12,186	6,558	3,569	10,127	2,059	0	15,785	25,912	
11	Above Normal	1997	3,376	1,474	20	86	3,500	2,250	1,427	200	12,333	6,576	3,582	10,159	2,174	0	17,959	28,118	
12	Extremely Wet	1998	3,376	1,474	20	86	3,500	2,250	2,107	200	13,013	6,594	3,596	10,190	2,823	0	20,782	30,972	
13	Normal	1999	3,376	1,474	20	86	3,500	2,250	1,520	200	12,426	6,612	3,609	10,222	2,204	0	22,987	33,208	
14	Above Normal	2000	3,376	1,474	20	86	3,500	2,250	1,223	200	12,129	6,630	3,623	10,253	1,876	0	24,863	35,116	
15	Normal	2001	3,376	1,474	20	86	3,500	2,250	1,053	200	11,959	6,648	3,636	10,285	1,675	0	26,537	36,822	
16	Below Normal	2002	3,376	1,474	20	86	3,500	2,250	761	200	11,667	6,666	3,650	10,316	1,351	0	27,888	38,204	
17	Normal	2003	3,376	1,474	20	86	3,500	2,250	1,773	200	12,679	6,684	3,663	10,347	2,332	0	30,220	40,568	
18	Below Normal	2004	3,376	1,474	20	86	3,500	2,250	693	200	11,599	6,702	3,676	10,379	1,220	0	31,440	41,819	
19	Wet	2005	3,376	1,474	20	86	3,500	2,250	1,929	200	12,835	6,720	3,690	10,442	2,425	0	33,865	44,276	
20	Wet	2006	3,376	1,474	20	86	3,500	2,250	1,773	200	12,679	6,738	3,703	10,442	2,237	0	36,103	46,544	
21	Critically Dry	2007	3,376	1,474	20	86	3,500	2,105	193	200	10,954	6,756	3,717	10,473	481	0	36,584	47,057	
22	Normal	2008	3,376	1,474	20	86	3,500	2,250	845	200	11,751	6,774	3,730	10,505	1,247	0	37,830	48,335	
23	Normal	2009	3,376	1,474	20	86	3,500	2,250	677	200	11,583	6,792	3,744	10,536	1,047	0	38,877	49,413	
24	Above Normal	2010	3,376	1,474	20	86	3,500	2,250	1,865	200	12,771	6,810	3,757	10,568	2,204	0	41,081	51,648	
25	Above Normal	2011	3,376	1,474	20	86	3,500	2,250	1,860	200	12,766	6,828	3,771	10,599	2,167	0	43,248	53,847	
26	Dry	2012	3,376	1,474	20	86	3,500	2,105	201	200	10,962	6,846	3,784	10,630	332	0	43,580	54,210	
27	Dry	2013	3,376	1,474	20	86	3,500	2,105	635	160	11,356	6,864	3,797	10,662	694	0	44,274	54,936	
28	Critically Dry	2014	3,376	1,474	20	86	3,500	2,105	0	160	10,721	6,882	3,811	10,693	28	0	44,302	54,995	
29	Dry	2015	3,376	1,474	20	86	3,500	2,105	253	160	10,974	6,900	3,824	10,725	249	0	44,551	55,276	
30	Normal	2016	3,376	1,474	20	86	3,500	2,250	1,053	160	11,919	6,918	3,838	10,756	1,163	0	45,714	56,471	

# Exhibit 1

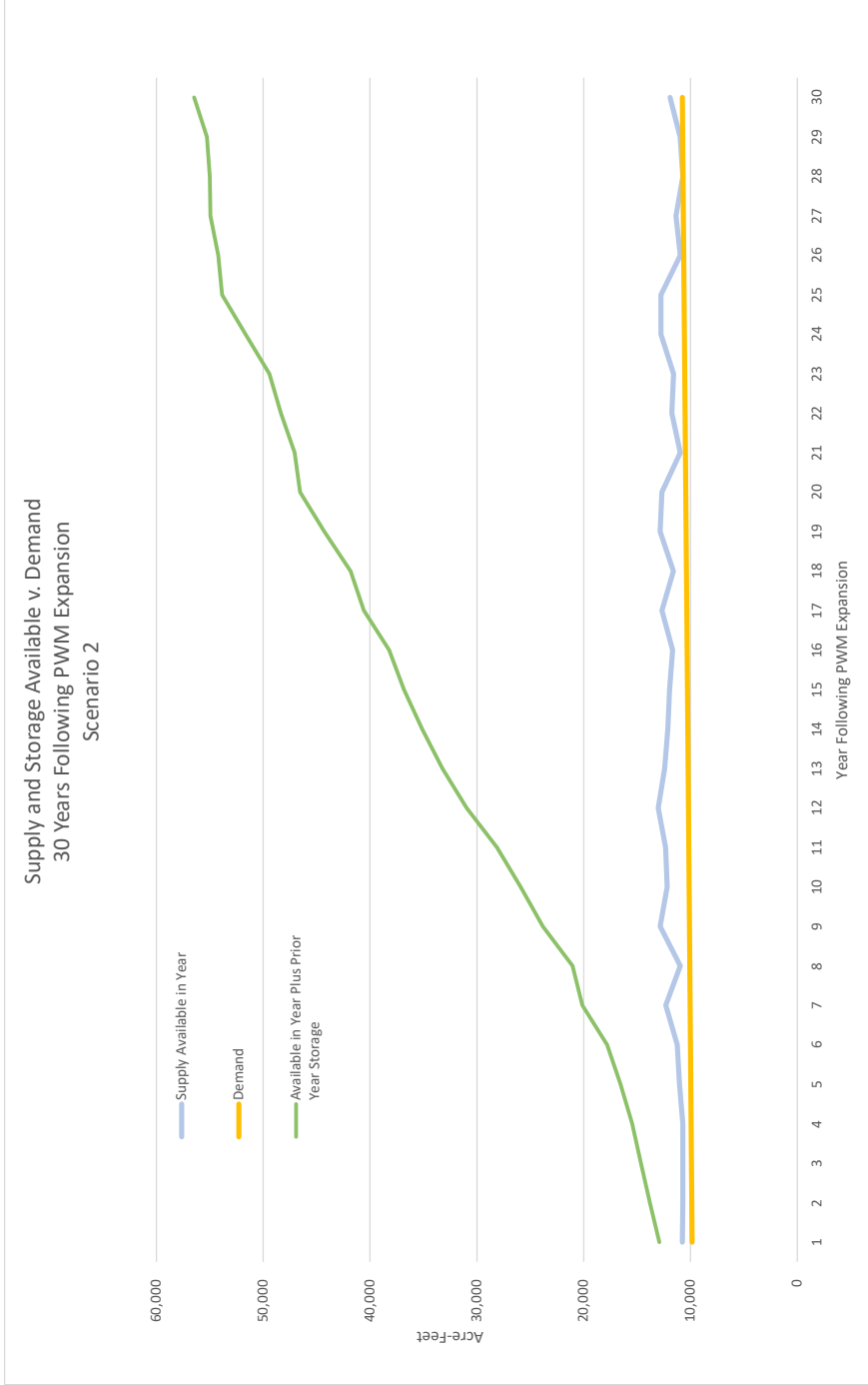
31	Extremely Wet	2017	3,376	1,474	20	86	3,500	2,250	1,960	200	12,866	6,936	3,851	10,788	2,079	0	47,793	58,581
32	Below Normal	2018	3,376	1,474	20	86	3,500	2,250	265	200	11,171	6,954	3,865	10,819	352	0	48,145	58,964
33	Extremely Wet	2019	3,376	1,474	20	86	3,500	2,250	1,747	200	12,653	6,972	3,878	10,851	1,803	0	49,948	60,798
34	Normal	2020	3,376	1,474	20	86	3,500	2,250	1,640	200	12,546	6,990	3,892	10,882	1,664	0	51,612	62,494
35	Dry	2021	3,376	1,474	20	86	3,500	2,105	80	200	10,841	7,008	3,905	10,913	0	72	51,540	62,453
36	Above Normal	1963	3,376	1,474	20	86	3,500	2,250	1,587	200	12,493	7,026	3,918	10,945	1,548	0	53,088	64,033
37	Dry	1964	3,376	1,474	20	86	3,500	2,105	347	200	11,108	7,044	3,932	10,976	132	0	53,220	64,196
38	Normal	1965	3,376	1,474	20	86	3,500	2,250	1,227	200	12,133	7,062	3,945	11,008	1,125	0	54,346	65,353
39	Dry	1966	3,376	1,474	20	86	3,500	2,105	787	200	11,548	7,080	3,959	11,039	509	0	54,855	65,894
40	Wet	1967	3,376	1,474	20	86	3,500	2,250	1,907	200	12,813	7,098	3,972	11,071	1,743	0	56,597	67,668
41	Critically Dry	1968	3,376	1,474	20	86	3,500	2,105	120	200	10,881	7,116	3,986	11,102	0	221	56,376	67,478
42	Extremely Wet	1969	3,376	1,474	20	86	3,500	2,250	1,600	200	12,506	7,134	3,999	11,133	1,373	0	57,749	68,883
43	Normal	1970	3,376	1,474	20	86	3,500	2,250	1,127	200	12,033	7,152	4,012	11,165	868	0	58,617	69,782
44	Below Normal	1971	3,376	1,474	20	86	3,500	2,250	987	200	11,893	7,170	4,026	11,196	697	0	59,314	70,511
45	Critically Dry	1972	3,376	1,474	20	86	3,500	2,105	147	200	10,908	7,188	4,039	11,228	0	320	58,995	70,222
46	Wet	1973	3,376	1,474	20	86	3,500	2,250	1,667	200	12,573	7,206	4,053	11,259	1,314	0	60,309	71,568
47	Above Normal	1974	3,376	1,474	20	86	3,500	2,250	1,987	200	12,893	7,224	4,066	11,291	1,603	0	61,911	73,202
48	Above Normal	1975	3,376	1,474	20	86	3,500	2,250	1,440	200	12,346	7,242	4,080	11,322	1,024	0	62,935	74,257
49	Critically Dry	1976	3,376	1,474	20	86	3,500	2,105	0	200	10,761	7,260	4,093	11,354	0	592	62,343	73,696
50	Critically Dry	1977	3,376	1,474	20	86	3,500	2,105	0	160	10,721	7,278	4,107	11,385	0	664	61,679	73,064
51	Extremely Wet	1978	3,376	1,474	20	86	3,500	2,250	1,947	160	12,813	7,296	4,120	11,416	1,397	0	63,076	74,492
52	Normal	1979	3,376	1,474	20	86	3,500	2,250	1,467	200	12,373	7,314	4,133	11,448	925	0	64,001	75,449
53	Extremely Wet	1980	3,376	1,474	20	86	3,500	2,250	1,840	200	12,746	7,332	4,147	11,479	1,267	0	65,268	76,747
54	Below Normal	1981	3,376	1,474	20	86	3,500	2,250	1,041	200	11,947	7,350	4,160	11,511	436	0	65,507	77,215
55	Extremely Wet	1982	3,376	1,474	20	86	3,500	2,250	2,187	200	13,093	7,368	4,174	11,542	1,551	0	65,507	78,600
56	Extremely Wet	1983	3,376	1,474	20	86	3,500	2,250	2,419	200	13,325	7,386	4,187	11,574	1,752	0	65,507	78,832
57	Normal	1984	3,376	1,474	20	86	3,500	2,250	1,587	200	12,493	7,404	4,201	11,605	888	0	65,507	78,000
58	Dry	1985	3,376	1,474	20	86	3,500	2,105	507	200	11,268	7,422	4,214	11,637	0	368	65,139	76,775
59	Wet	1986	3,376	1,474	20	86	3,500	2,250	1,267	200	12,173	7,440	4,228	11,668	505	0	65,507	77,312

Notes: Seaside Basin Wheeled is comprised of 7.17 AF to Montage and 13 AF to Seaside Ascent project  
 Malpaso is assumed to be 86 AFY production; less losses yields 80 AFY available to meet customer demand  
 ASR Uses actual 59-year record produced by Cal-Am witness in Phase 2 testimony to CPUC, starting in 1987 drought year  
 Sand City Desal assumes 200 AFY with new intake well online; During 2nd year of drought and remaining drought year 20% reductor

Base Year Water Demand is 9,813 AF, the 2023 10-year average; Assume to be split 65% Residential, 35% Non-Residential  
 Residential Demand yearly increase: 18 AFY based on 2022 AMBAG Regional Growth Forecast (population)  
 Non-Residential yearly increase: 13.44 AFY based on 2022 AMBAG Regional Growth Forecast (jobs)

Initial storage includes ASR balance, excludes PWM Operating Reserve

# Exhibit 1





Monterey Peninsula Water Supply Assessment  
For 59 Years Following Pure Water Monterey Expansion

Scenario 3

Forecast Year	Water Year Class	Derived From Year	Water Supplies not Affected by Drought				Water Supplies Affected by Drought				Water Demand				Total Water Demand	Surplus	Deficit	Stored Water EOY	Available in Year Plus Prior Year Storage
			Carmel River	Seaside Basin	Seaside Basin	Malpasos	Pure Water Monterey Base	Pure Water Monterey Expansion	Aquifer Storage & Recovery (ASR)	Sand City Desal	Total Water Available	Residential Water Demand	Non-Residential Water Demand	Residential Water Demand					
1	Dry	1987	3,376	1,474	20	86	3,500	2,139	1,055	193	11,842	6,378	3,448	9,844	717	0	2,876	12,720	
2	Critically Dry	1988	3,376	1,474	20	86	3,500	1,905	0	200	10,561	6,396	3,461	9,876	645	0	3,521	13,397	
3	Critically Dry	1989	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,414	3,475	9,907	614	0	4,135	14,042	
4	Critically Dry	1990	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,450	3,488	9,939	582	0	4,717	14,656	
5	Dry	1991	3,376	1,474	20	86	3,500	1,905	307	160	10,828	6,468	3,502	9,970	858	0	5,575	15,546	
6	Normal	1992	3,376	1,474	20	86	3,500	2,250	373	160	11,239	6,486	3,515	10,002	1,238	0	6,813	16,815	
7	Wet	1993	3,376	1,474	20	86	3,500	2,250	1,413	200	12,319	6,504	3,529	10,033	2,286	0	9,099	19,132	
8	Critically Dry	1994	3,376	1,474	20	86	3,500	1,905	187	200	10,748	6,522	3,542	10,065	684	0	9,783	19,847	
9	Extremely Wet	1995	3,376	1,474	20	86	3,500	2,250	1,933	200	12,839	6,540	3,556	10,096	2,743	0	12,526	22,622	
10	Above Normal	1996	3,376	1,474	20	86	3,500	2,250	1,280	200	12,186	6,558	3,569	10,127	2,059	0	14,585	24,712	
11	Above Normal	1997	3,376	1,474	20	86	3,500	2,250	1,427	200	12,333	6,576	3,582	10,159	2,174	0	16,759	26,918	
12	Extremely Wet	1998	3,376	1,474	20	86	3,500	2,250	2,107	200	13,013	6,594	3,596	10,190	2,823	0	19,582	29,772	
13	Normal	1999	3,376	1,474	20	86	3,500	2,250	1,520	200	12,426	6,612	3,609	10,222	2,204	0	21,787	32,008	
14	Above Normal	2000	3,376	1,474	20	86	3,500	2,250	1,223	200	12,129	6,630	3,623	10,253	1,876	0	23,663	33,916	
15	Normal	2001	3,376	1,474	20	86	3,500	2,250	1,053	200	11,959	6,648	3,636	10,285	1,675	0	25,337	35,622	
16	Below Normal	2002	3,376	1,474	20	86	3,500	2,250	761	200	11,667	6,666	3,650	10,316	1,351	0	26,688	37,004	
17	Normal	2003	3,376	1,474	20	86	3,500	2,250	1,773	200	12,679	6,684	3,663	10,347	2,332	0	29,020	39,368	
18	Below Normal	2004	3,376	1,474	20	86	3,500	2,250	693	200	11,599	6,702	3,676	10,379	1,220	0	30,240	40,619	
19	Wet	2005	3,376	1,474	20	86	3,500	2,250	1,929	200	12,835	6,720	3,690	10,410	2,425	0	32,665	43,076	
20	Wet	2006	3,376	1,474	20	86	3,500	2,250	1,773	200	12,679	6,738	3,703	10,442	2,237	0	34,903	45,344	
21	Critically Dry	2007	3,376	1,474	20	86	3,500	1,905	193	200	10,794	6,756	3,717	10,473	281	0	35,184	45,657	
22	Normal	2008	3,376	1,474	20	86	3,500	2,250	845	200	11,751	6,774	3,730	10,505	1,247	0	36,430	46,935	
23	Normal	2009	3,376	1,474	20	86	3,500	2,250	677	200	11,583	6,792	3,744	10,536	1,047	0	37,477	48,013	
24	Above Normal	2010	3,376	1,474	20	86	3,500	2,250	1,865	200	12,771	6,810	3,757	10,568	2,204	0	39,681	50,248	
25	Above Normal	2011	3,376	1,474	20	86	3,500	2,250	1,860	200	12,766	6,828	3,771	10,599	2,167	0	41,848	52,447	
26	Dry	2012	3,376	1,474	20	86	3,500	1,905	201	200	10,762	6,846	3,784	10,630	132	0	41,980	52,610	
27	Dry	2013	3,376	1,474	20	86	3,500	1,905	635	160	11,156	6,864	3,797	10,662	494	0	42,474	53,136	
28	Critically Dry	2014	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,882	3,811	10,693	0	172	42,302	52,995	
29	Dry	2015	3,376	1,474	20	86	3,500	1,905	253	160	10,774	6,900	3,824	10,725	49	0	42,351	53,076	
30	Normal	2016	3,376	1,474	20	86	3,500	2,250	1,053	160	11,919	6,918	3,838	10,756	1,163	0	43,514	54,271	

# Exhibit 1

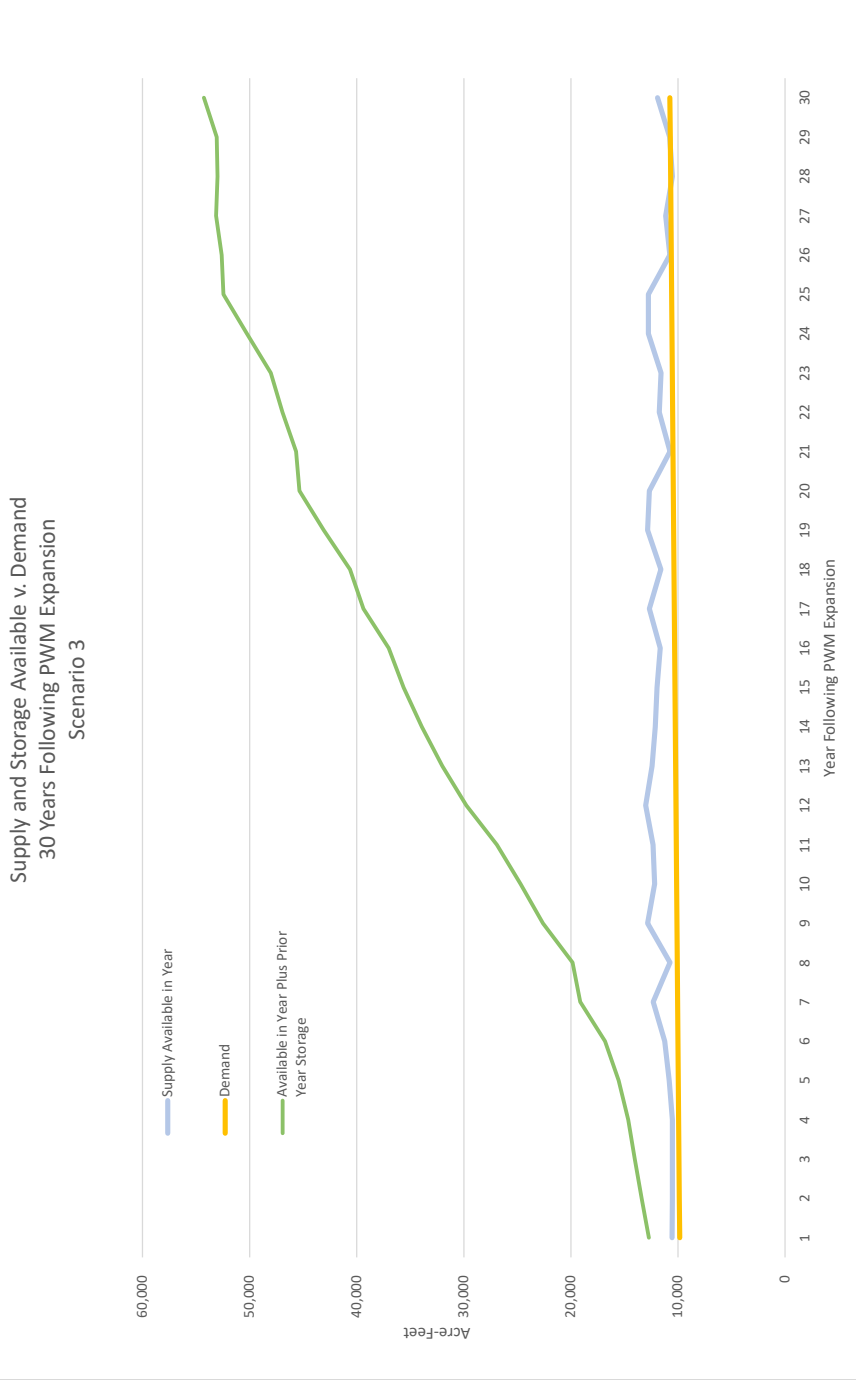
31	Extremely Wet	2017	3,376	1,474	20	86	3,500	2,250	1,960	200	12,866	6,936	3,851	10,788	2,079	0	45,593	56,381
32	Below Normal	2018	3,376	1,474	20	86	3,500	2,250	265	200	11,171	6,954	3,865	10,819	352	0	45,945	56,764
33	Extremely Wet	2019	3,376	1,474	20	86	3,500	2,250	1,747	200	12,653	6,972	3,878	10,851	1,803	0	47,748	58,598
34	Normal	2020	3,376	1,474	20	86	3,500	2,250	1,640	200	12,546	6,990	3,892	10,882	1,664	0	49,412	60,294
35	Dry	2021	3,376	1,474	20	86	3,500	1,905	80	200	10,641	7,008	3,905	10,913	0	272	49,140	60,053
36	Above Normal	1963	3,376	1,474	20	86	3,500	2,250	1,587	200	12,493	7,026	3,918	10,945	1,548	0	50,688	61,633
37	Dry	1964	3,376	1,474	20	86	3,500	1,905	347	200	10,908	7,044	3,932	10,976	0	68	50,620	61,596
38	Normal	1965	3,376	1,474	20	86	3,500	2,250	1,227	200	12,133	7,062	3,945	11,008	1,125	0	51,746	62,753
39	Dry	1966	3,376	1,474	20	86	3,500	1,905	787	200	11,348	7,080	3,959	11,039	309	0	52,055	63,094
40	Wet	1967	3,376	1,474	20	86	3,500	2,250	1,907	200	12,813	7,098	3,972	11,071	1,743	0	53,797	64,868
41	Critically Dry	1968	3,376	1,474	20	86	3,500	1,905	120	200	10,681	7,116	3,986	11,102	0	421	53,376	64,478
42	Extremely Wet	1969	3,376	1,474	20	86	3,500	2,250	1,600	200	12,506	7,134	3,999	11,133	1,373	0	54,749	65,883
43	Normal	1970	3,376	1,474	20	86	3,500	2,250	1,127	200	12,033	7,152	4,012	11,165	868	0	55,617	66,782
44	Below Normal	1971	3,376	1,474	20	86	3,500	2,250	987	200	11,893	7,170	4,026	11,196	697	0	56,314	67,511
45	Critically Dry	1972	3,376	1,474	20	86	3,500	1,905	147	200	10,708	7,188	4,039	11,228	0	520	55,795	67,022
46	Wet	1973	3,376	1,474	20	86	3,500	2,250	1,667	200	12,573	7,206	4,053	11,259	1,314	0	57,109	68,368
47	Above Normal	1974	3,376	1,474	20	86	3,500	2,250	1,987	200	12,893	7,224	4,066	11,291	1,603	0	58,711	70,002
48	Above Normal	1975	3,376	1,474	20	86	3,500	2,250	1,440	200	12,346	7,242	4,080	11,322	1,024	0	59,735	71,057
49	Critically Dry	1976	3,376	1,474	20	86	3,500	1,905	0	200	10,561	7,260	4,093	11,354	0	792	58,943	70,296
50	Critically Dry	1977	3,376	1,474	20	86	3,500	1,905	0	160	10,521	7,278	4,107	11,385	0	864	58,079	69,464
51	Extremely Wet	1978	3,376	1,474	20	86	3,500	2,250	1,947	160	12,813	7,296	4,120	11,416	1,397	0	59,476	70,892
52	Normal	1979	3,376	1,474	20	86	3,500	2,250	1,467	200	12,373	7,314	4,133	11,448	925	0	60,401	71,849
53	Extremely Wet	1980	3,376	1,474	20	86	3,500	2,250	1,840	200	12,746	7,332	4,147	11,479	1,267	0	61,668	73,147
54	Below Normal	1981	3,376	1,474	20	86	3,500	2,250	1,041	200	11,947	7,350	4,160	11,511	436	0	62,104	73,615
55	Extremely Wet	1982	3,376	1,474	20	86	3,500	2,250	2,187	200	13,093	7,368	4,174	11,542	1,551	0	63,655	75,198
56	Extremely Wet	1983	3,376	1,474	20	86	3,500	2,250	2,419	200	13,325	7,386	4,187	11,574	1,752	0	65,407	76,981
57	Normal	1984	3,376	1,474	20	86	3,500	2,250	1,587	200	12,493	7,404	4,201	11,605	888	0	65,507	77,900
58	Dry	1985	3,376	1,474	20	86	3,500	1,905	507	200	11,068	7,422	4,214	11,637	0	568	64,939	76,575
59	Wet	1986	3,376	1,474	20	86	3,500	2,250	1,267	200	12,173	7,440	4,228	11,668	505	0	65,444	77,112

Notes: Seaside Basin Wheeled is comprised of 7.17 AF to Montage and 13 AF to Seaside Ascent project  
 Malpaso is assumed to be 86 AFY production; less losses yields 80 AFY available to meet customer demand  
 ASR Uses actual 59-year record produced by Cal-Am witness in Phase 2 testimony to CPUC, starting in 1987 drought year  
 Sand City Desal assumes 200 AFY with new intake well online; During 2nd year of drought and remaining drought year 20% reductor

Base Year Water Demand is 9,813 AF, the 2023 10-year average; Assume to be split 65% Residential, 35% Non-Residential  
 Residential Demand yearly increase: 18 AFY based on 2022 AMBAG Regional Growth Forecast (population)  
 Non-Residential yearly increase: 13.44 AFY based on 2022 AMBAG Regional Growth Forecast (jobs)

Initial storage includes ASR balance, excludes PWM Operating Reserve

# Exhibit 1



Monterey Peninsula Water Supply Assessment  
For 59 Years Following Pure Water Monterey Expansion

Scenario 4

Forecast Year	Water Year Class	Derived From Year	Water Supplies not Affected by Drought				Water Supplies Affected by Drought				Water Demand				Total Water Demand	Surplus	Deficit	Stored Water EOY	Available in Year Plus Prior Year Storage
			Carmel River	Seaside Basin	Seaside Basin	Malpasos	Pure Monterey Base	Pure Water Expansion	Aquifer Storage & Recovery (ASR)	Sand City	Total Water Available	Residential Water Demand	Non-Residential Water Demand	Residential Water Demand					
Base/Avg	n/a		3,376	1,474	20	86	3,500	2,139	1,055	193	11,842	6,378	3,435	9,813	2,159				
1	Dry	1987	3,376	1,474	20	86	3,500	1,905	0	200	10,561	6,414	3,462	9,876	685	0	2,844	12,720	
2	Critically Dry	1988	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,450	3,489	9,939	582	0	3,426	13,365	
3	Critically Dry	1989	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,486	3,516	10,002	519	0	3,946	13,948	
4	Critically Dry	1990	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,522	3,543	10,065	456	0	4,402	14,467	
5	Dry	1991	3,376	1,474	20	86	3,500	1,905	307	160	10,828	6,558	3,570	10,128	700	0	5,102	15,230	
6	Normal	1992	3,376	1,474	20	86	3,500	2,250	373	160	11,239	6,594	3,597	10,191	1,048	0	6,150	16,341	
7	Wet	1993	3,376	1,474	20	86	3,500	2,250	1,413	200	12,319	6,630	3,624	10,254	2,065	0	8,215	18,469	
8	Critically Dry	1994	3,376	1,474	20	86	3,500	1,905	187	200	10,748	6,666	3,651	10,317	431	0	8,647	18,964	
9	Extremely Wet	1995	3,376	1,474	20	86	3,500	2,250	1,933	200	12,839	6,702	3,678	10,380	2,459	0	11,106	21,486	
10	Above Normal	1996	3,376	1,474	20	86	3,500	2,250	1,280	200	12,186	6,738	3,705	10,443	1,743	0	12,849	23,292	
11	Above Normal	1997	3,376	1,474	20	86	3,500	2,250	1,427	200	12,333	6,774	3,732	10,506	1,827	0	14,676	25,182	
12	Extremely Wet	1998	3,376	1,474	20	86	3,500	2,250	2,107	200	13,013	6,810	3,759	10,569	2,444	0	17,120	27,689	
13	Normal	1999	3,376	1,474	20	86	3,500	2,250	1,520	200	12,426	6,846	3,786	10,632	1,794	0	18,915	29,547	
14	Above Normal	2000	3,376	1,474	20	86	3,500	2,250	1,223	200	12,129	6,882	3,813	10,695	1,434	0	20,349	31,044	
15	Normal	2001	3,376	1,474	20	86	3,500	2,250	1,053	200	11,959	6,918	3,840	10,758	1,201	0	21,550	32,308	
16	Below Normal	2002	3,376	1,474	20	86	3,500	2,250	761	200	11,667	6,954	3,867	10,821	846	0	22,396	33,217	
17	Normal	2003	3,376	1,474	20	86	3,500	2,250	1,773	200	12,679	6,990	3,894	10,884	1,795	0	24,191	35,075	
18	Below Normal	2004	3,376	1,474	20	86	3,500	2,250	693	200	11,599	7,026	3,921	10,947	652	0	24,844	35,791	
19	Wet	2005	3,376	1,474	20	86	3,500	2,250	1,929	200	12,835	7,062	3,948	11,010	1,825	0	26,669	37,679	
20	Wet	2006	3,376	1,474	20	86	3,500	2,250	1,773	200	12,679	7,098	3,975	11,073	1,606	0	28,275	39,348	
21	Critically Dry	2007	3,376	1,474	20	86	3,500	1,905	193	200	10,794	7,134	4,002	11,136	0	382	27,893	39,029	
22	Normal	2008	3,376	1,474	20	86	3,500	2,250	845	200	11,751	7,170	4,029	11,199	552	0	28,445	39,644	
23	Normal	2009	3,376	1,474	20	86	3,500	2,250	677	200	11,583	7,206	4,056	11,262	321	0	28,767	40,029	
24	Above Normal	2010	3,376	1,474	20	86	3,500	2,250	1,865	200	12,771	7,242	4,083	11,325	1,446	0	30,213	41,538	
25	Above Normal	2011	3,376	1,474	20	86	3,500	2,250	1,860	200	12,766	7,278	4,110	11,388	1,378	0	31,591	42,979	
26	Dry	2012	3,376	1,474	20	86	3,500	1,905	201	200	10,762	7,314	4,137	11,451	0	689	30,902	42,353	
27	Dry	2013	3,376	1,474	20	86	3,500	1,905	635	160	11,156	7,350	4,164	11,514	0	358	30,544	42,058	
28	Critically Dry	2014	3,376	1,474	20	86	3,500	1,905	0	160	10,521	7,386	4,191	11,577	0	1,056	29,489	41,066	
29	Dry	2015	3,376	1,474	20	86	3,500	1,905	253	160	10,774	7,422	4,218	11,640	0	866	28,623	40,263	
30	Normal	2016	3,376	1,474	20	86	3,500	2,250	1,053	160	11,919	7,458	4,245	11,703	216	0	28,839	40,542	

# Exhibit 1

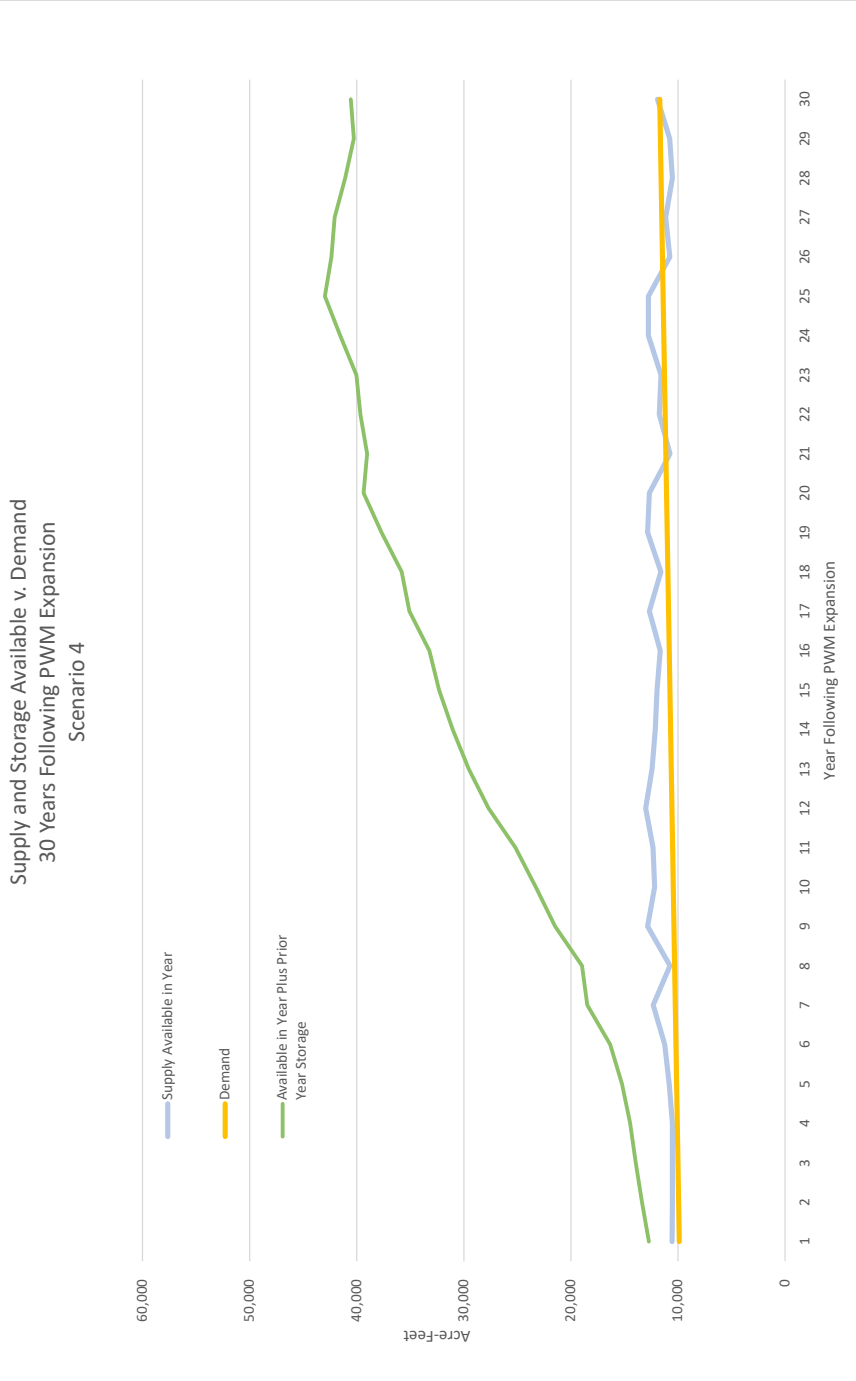
31	Extremely Wet	2017	3,376	1,474	20	86	3,500	2,250	1,960	200	12,866	7,494	4,272	11,766	1,100	0	29,939	41,705
32	Below Normal	2018	3,376	1,474	20	86	3,500	2,250	265	200	11,171	7,530	4,299	11,829	0	658	29,281	41,110
33	Extremely Wet	2019	3,376	1,474	20	86	3,500	2,250	1,747	200	12,653	7,566	4,326	11,892	761	0	30,043	41,935
34	Normal	2020	3,376	1,474	20	86	3,500	2,250	1,640	200	12,546	7,602	4,353	11,955	591	0	30,634	42,589
35	Dry	2021	3,376	1,474	20	86	3,500	1,905	80	200	10,641	7,638	4,380	12,018	0	1,377	29,257	41,275
36	Above Normal	1963	3,376	1,474	20	86	3,500	2,250	1,587	200	12,493	7,674	4,407	12,081	412	0	29,669	41,750
37	Dry	1964	3,376	1,474	20	86	3,500	1,905	347	200	10,908	7,710	4,434	12,144	0	1,236	28,433	40,577
38	Normal	1965	3,376	1,474	20	86	3,500	2,250	1,227	200	12,133	7,746	4,461	12,207	0	74	28,360	40,567
39	Dry	1966	3,376	1,474	20	86	3,500	1,905	787	200	11,348	7,782	4,488	12,270	0	922	27,438	39,708
40	Wet	1967	3,376	1,474	20	86	3,500	2,250	1,907	200	12,813	7,818	4,515	12,333	480	0	27,918	40,251
41	Critically Dry	1968	3,376	1,474	20	86	3,500	1,905	120	200	10,681	7,854	4,542	12,396	0	1,715	26,203	38,599
42	Extremely Wet	1969	3,376	1,474	20	86	3,500	2,250	1,600	200	12,506	7,890	4,569	12,459	47	0	26,250	38,709
43	Normal	1970	3,376	1,474	20	86	3,500	2,250	1,127	200	12,033	7,926	4,596	12,522	0	489	25,762	38,284
44	Below Normal	1971	3,376	1,474	20	86	3,500	2,250	987	200	11,893	7,962	4,623	12,585	0	692	25,070	37,655
45	Critically Dry	1972	3,376	1,474	20	86	3,500	1,905	147	200	10,708	7,998	4,650	12,648	0	1,940	23,130	35,778
46	Wet	1973	3,376	1,474	20	86	3,500	2,250	1,667	200	12,573	8,034	4,677	12,711	0	138	22,992	35,703
47	Above Normal	1974	3,376	1,474	20	86	3,500	2,250	1,987	200	12,893	8,070	4,704	12,774	119	0	23,111	35,885
48	Above Normal	1975	3,376	1,474	20	86	3,500	2,250	1,440	200	12,346	8,106	4,731	12,837	0	491	22,621	35,458
49	Critically Dry	1976	3,376	1,474	20	86	3,500	1,905	0	200	10,561	8,142	4,758	12,900	0	2,339	20,282	33,182
50	Critically Dry	1977	3,376	1,474	20	86	3,500	1,905	0	160	10,521	8,178	4,785	12,963	0	2,442	17,840	30,803
51	Extremely Wet	1978	3,376	1,474	20	86	3,500	2,250	1,947	160	12,813	8,214	4,812	13,026	0	213	17,627	30,653
52	Normal	1979	3,376	1,474	20	86	3,500	2,250	1,467	200	12,373	8,250	4,839	13,089	0	716	16,911	30,000
53	Extremely Wet	1980	3,376	1,474	20	86	3,500	2,250	1,840	200	12,746	8,286	4,866	13,152	0	406	16,506	29,658
54	Below Normal	1981	3,376	1,474	20	86	3,500	2,250	1,041	200	11,947	8,322	4,893	13,215	0	1,268	15,238	28,453
55	Extremely Wet	1982	3,376	1,474	20	86	3,500	2,250	2,187	200	13,093	8,358	4,920	13,278	0	185	15,053	28,331
56	Extremely Wet	1983	3,376	1,474	20	86	3,500	2,250	2,419	200	13,325	8,394	4,947	13,341	0	16	15,037	28,378
57	Normal	1984	3,376	1,474	20	86	3,500	2,250	1,587	200	12,493	8,430	4,974	13,404	0	911	14,126	27,530
58	Dry	1985	3,376	1,474	20	86	3,500	1,905	507	200	11,068	8,466	5,001	13,467	0	2,399	11,728	25,195
59	Wet	1986	3,376	1,474	20	86	3,500	2,250	1,267	200	12,173	8,502	5,028	13,530	0	1,357	10,371	23,901

Notes: Seaside Basin Wheeled is comprised of 7.17 AF to Montage and 13 AF to Seaside Ascent project  
 Malpaso is assumed to be 86 AFY production; less losses yields 80 AFY available to meet customer demand  
 ASR Uses actual 59-year record produced by Cal-Am witness in Phase 2 testimony to CPUC, starting in 1987 drought year  
 Sand City Desal assumes 200 AFY with new intake well online; During 2nd year of drought and remaining drought year 20% reductor

Base Year Water Demand is 9,813 AF, the 2023 10-year average; Assume to be split 65% Residential, 35% Non-Residential  
 Residential Demand yearly increase: **36** AFY based on 2x 2022 AMBAG Regional Growth Forecast (population)  
 Non-Residential yearly increase: **27** AFY based on 2x 2022 AMBAG Regional Growth Forecast (jobs)

Initial storage includes ASR balance, excludes PWM Operating Reserve

# Exhibit 1



Monterey Peninsula Water Supply Assessment  
For 59 Years Following Pure Water Monterey Expansion

Scenario 5

Forecast Year	Water Year Class	Derived From Year	Water Supplies not Affected by Drought				Water Supplies Affected by Drought				Water Demand				Total Water Demand	Surplus	Deficit	Stored Water EOY	Available in Year Plus Prior Year Storage
			Carmel River	Seaside Basin	Seaside Basin	Malpasos	Pure Water Monterey Base	Pure Water Monterey Expansion	Aquifer Storage & Recovery (ASR)	Sand City Desal	Total Water Available	Residential Water Demand	Non-Residential Water Demand	Residential Water Demand					
1	Dry	1987	3,376	1,177	20	86	3,500	2,139	1,055	193	11,546	6,378	3,435	9,813	685	0	2,844	12,720	
2	Critically Dry	1988	3,376	1,474	20	86	3,500	1,905	0	200	10,561	6,414	3,462	9,876	582	0	3,426	13,365	
3	Critically Dry	1989	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,450	3,489	9,939	519	0	3,946	13,948	
4	Critically Dry	1990	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,486	3,516	10,002	456	0	4,402	14,467	
5	Dry	1991	3,376	1,474	20	86	3,500	1,905	307	160	10,828	6,558	3,570	10,128	700	0	5,102	15,230	
6	Normal	1992	3,376	774	20	86	3,500	2,250	373	160	10,539	6,594	3,597	10,191	348	0	5,450	15,641	
7	Wet	1993	3,376	774	20	86	3,500	2,250	1,413	200	11,619	6,630	3,624	10,254	1,365	0	6,815	17,069	
8	Critically Dry	1994	3,376	774	20	86	3,500	1,905	187	200	10,048	6,666	3,651	10,317	0	269	6,547	16,864	
9	Extremely Wet	1995	3,376	774	20	86	3,500	2,250	1,933	200	12,139	6,702	3,678	10,380	1,759	0	8,306	18,686	
10	Above Normal	1996	3,376	774	20	86	3,500	2,250	1,280	200	11,486	6,738	3,705	10,443	1,043	0	9,349	19,792	
11	Above Normal	1997	3,376	774	20	86	3,500	2,250	1,427	200	11,633	6,774	3,732	10,506	1,127	0	10,476	20,982	
12	Extremely Wet	1998	3,376	774	20	86	3,500	2,250	2,107	200	12,313	6,810	3,759	10,569	1,744	0	12,220	22,789	
13	Normal	1999	3,376	774	20	86	3,500	2,250	1,520	200	11,726	6,846	3,786	10,632	1,094	0	13,315	23,947	
14	Above Normal	2000	3,376	774	20	86	3,500	2,250	1,223	200	11,429	6,882	3,813	10,695	734	0	14,049	24,744	
15	Normal	2001	3,376	774	20	86	3,500	2,250	1,053	200	11,259	6,918	3,840	10,758	501	0	14,550	25,308	
16	Below Normal	2002	3,376	774	20	86	3,500	2,250	761	200	10,967	6,954	3,867	10,821	146	0	14,696	25,517	
17	Normal	2003	3,376	774	20	86	3,500	2,250	1,773	200	11,979	6,990	3,894	10,884	1,095	0	15,791	26,675	
18	Below Normal	2004	3,376	774	20	86	3,500	2,250	693	200	10,899	7,026	3,921	10,947	0	48	15,744	26,691	
19	Wet	2005	3,376	774	20	86	3,500	2,250	1,929	200	12,135	7,062	3,948	11,010	1,125	0	16,869	27,879	
20	Wet	2006	3,376	774	20	86	3,500	2,250	1,773	200	11,979	7,098	3,975	11,073	906	0	17,775	28,848	
21	Critically Dry	2007	3,376	774	20	86	3,500	1,905	193	200	10,054	7,134	4,002	11,136	0	1,082	16,693	27,829	
22	Normal	2008	3,376	774	20	86	3,500	2,250	845	200	11,051	7,170	4,029	11,199	0	148	16,545	27,744	
23	Normal	2009	3,376	774	20	86	3,500	2,250	677	200	10,883	7,206	4,056	11,262	0	379	16,167	27,429	
24	Above Normal	2010	3,376	774	20	86	3,500	2,250	1,865	200	12,071	7,242	4,083	11,325	746	0	16,913	28,238	
25	Above Normal	2011	3,376	774	20	86	3,500	2,250	1,860	200	12,066	7,278	4,110	11,388	678	0	17,591	28,979	
26	Dry	2012	3,376	774	20	86	3,500	1,905	201	200	10,062	7,314	4,137	11,451	0	1,389	16,202	27,653	
27	Dry	2013	3,376	774	20	86	3,500	1,905	635	160	10,456	7,350	4,164	11,514	0	1,058	15,144	26,658	
28	Critically Dry	2014	3,376	774	20	86	3,500	1,905	0	160	9,821	7,386	4,191	11,577	0	1,756	13,389	24,966	
29	Dry	2015	3,376	774	20	86	3,500	1,905	253	160	10,074	7,422	4,218	11,640	0	1,566	11,823	23,463	
30	Normal	2016	3,376	774	20	86	3,500	2,250	1,053	160	11,219	7,458	4,245	11,703	0	484	11,339	23,042	

# Exhibit 1

31	Extremely Wet	2017	3,376	1,474	20	86	3,500	2,250	1,960	200	12,866	7,494	4,272	11,766	1,100	0	12,439	24,205
32	Below Normal	2018	3,376	1,474	20	86	3,500	2,250	265	200	11,171	7,530	4,299	11,829	0	658	11,781	23,610
33	Extremely Wet	2019	3,376	1,474	20	86	3,500	2,250	1,747	200	12,653	7,566	4,326	11,892	761	0	12,543	24,435
34	Normal	2020	3,376	1,474	20	86	3,500	2,250	1,640	200	12,546	7,602	4,353	11,955	591	0	13,134	25,089
35	Dry	2021	3,376	1,474	20	86	3,500	1,905	80	200	10,641	7,638	4,380	12,018	0	1,377	11,757	23,775
36	Above Normal	1963	3,376	1,474	20	86	3,500	2,250	1,587	200	12,493	7,674	4,407	12,081	412	0	12,169	24,250
37	Dry	1964	3,376	1,474	20	86	3,500	1,905	347	200	10,908	7,710	4,434	12,144	0	1,236	10,933	23,077
38	Normal	1965	3,376	1,474	20	86	3,500	2,250	1,227	200	12,133	7,746	4,461	12,207	74	0	10,860	23,067
39	Dry	1966	3,376	1,474	20	86	3,500	1,905	787	200	11,348	7,782	4,488	12,270	0	922	9,938	22,208
40	Wet	1967	3,376	1,474	20	86	3,500	2,250	1,907	200	12,813	7,818	4,515	12,333	480	0	10,418	22,751
41	Critically Dry	1968	3,376	1,474	20	86	3,500	1,905	120	200	10,681	7,854	4,542	12,396	0	1,715	8,703	21,099
42	Extremely Wet	1969	3,376	1,474	20	86	3,500	2,250	1,600	200	12,506	7,890	4,569	12,459	47	0	8,750	21,209
43	Normal	1970	3,376	1,474	20	86	3,500	2,250	1,127	200	12,033	7,926	4,596	12,522	0	489	8,262	20,784
44	Below Normal	1971	3,376	1,474	20	86	3,500	2,250	987	200	11,893	7,962	4,623	12,585	0	692	7,570	20,155
45	Critically Dry	1972	3,376	1,474	20	86	3,500	1,905	147	200	10,708	7,998	4,650	12,648	0	1,940	5,630	18,278
46	Wet	1973	3,376	1,474	20	86	3,500	2,250	1,667	200	12,573	8,034	4,677	12,711	0	138	5,492	18,203
47	Above Normal	1974	3,376	1,474	20	86	3,500	2,250	1,987	200	12,893	8,070	4,704	12,774	119	0	5,611	18,385
48	Above Normal	1975	3,376	1,474	20	86	3,500	2,250	1,440	200	12,346	8,106	4,731	12,837	0	491	5,121	17,958
49	Critically Dry	1976	3,376	1,474	20	86	3,500	1,905	0	200	10,561	8,142	4,758	12,900	0	2,339	2,782	15,682
50	Critically Dry	1977	3,376	1,474	20	86	3,500	1,905	0	160	10,521	8,178	4,785	12,963	0	2,442	340	13,303
51	Extremely Wet	1978	3,376	1,474	20	86	3,500	2,250	1,947	160	12,813	8,214	4,812	13,026	0	213	127	13,153
52	Normal	1979	3,376	1,474	20	86	3,500	2,250	1,467	200	12,373	8,250	4,839	13,089	0	716	(589)	12,500
53	Extremely Wet	1980	3,376	1,474	20	86	3,500	2,250	1,840	200	12,746	8,286	4,866	13,152	0	406	(994)	12,158
54	Below Normal	1981	3,376	1,474	20	86	3,500	2,250	1,041	200	11,947	8,322	4,893	13,215	0	1,268	(2,262)	10,953
55	Extremely Wet	1982	3,376	1,474	20	86	3,500	2,250	2,187	200	13,093	8,358	4,920	13,278	0	185	(2,447)	10,831
56	Extremely Wet	1983	3,376	1,474	20	86	3,500	2,250	2,419	200	13,325	8,394	4,947	13,341	0	16	(2,463)	10,878
57	Normal	1984	3,376	1,474	20	86	3,500	2,250	1,587	200	12,493	8,430	4,974	13,404	0	911	(3,374)	10,030
58	Dry	1985	3,376	1,474	20	86	3,500	1,905	507	200	11,068	8,466	5,001	13,467	0	2,399	(5,772)	7,695
59	Wet	1986	3,376	1,474	20	86	3,500	2,250	1,267	200	12,173	8,502	5,028	13,530	0	1,357	(7,129)	6,401

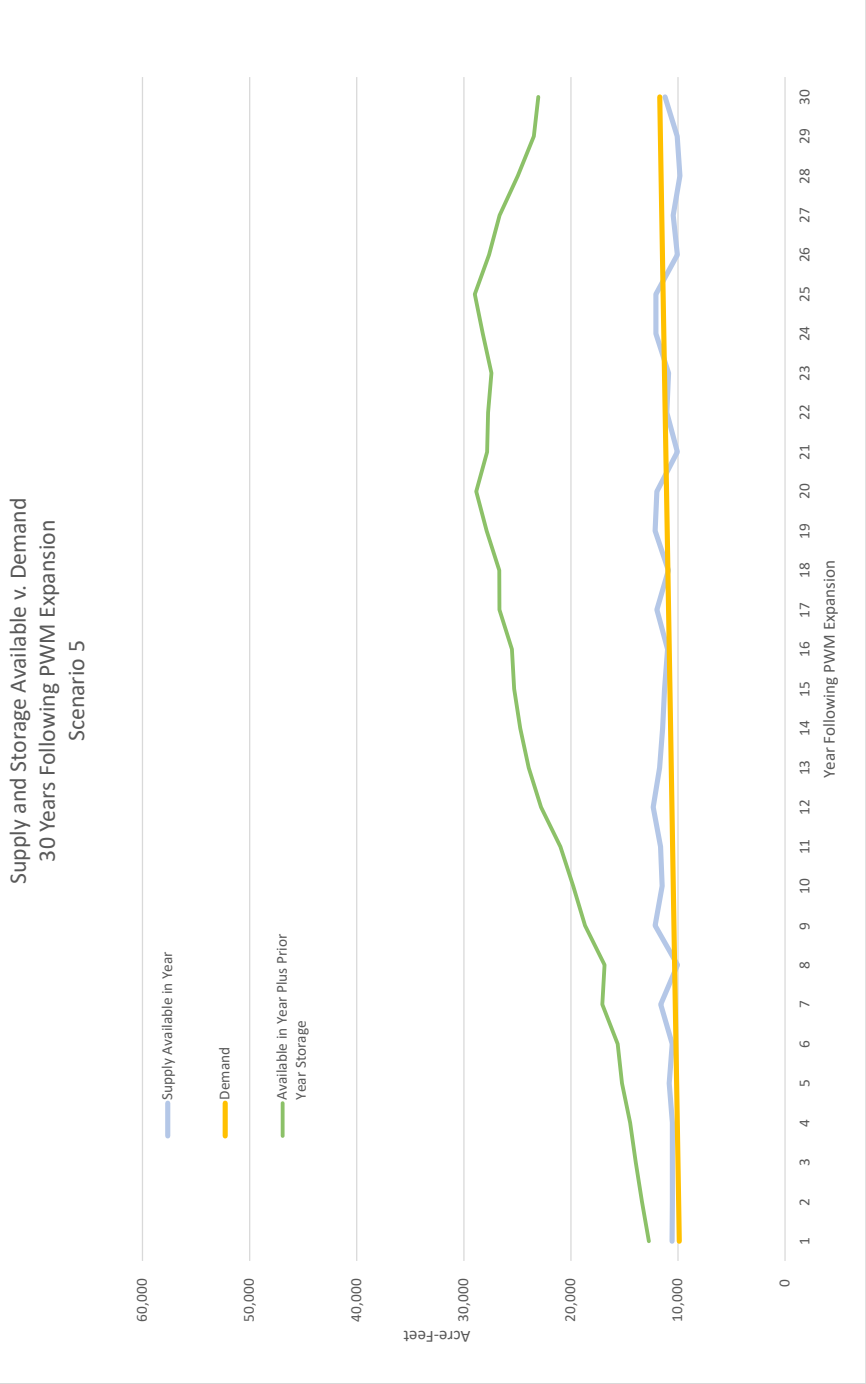
Notes: Seaside Basin Wheeled is comprised of 7.17 AF to Montage and 13 AF to Seaside Ascent project  
 Malpaso is assumed to be 86 AFY production; less losses yields 80 AFY available to meet customer demand  
 ASR Uses actual 59-year record produced by Cal-Am witness in Phase 2 testimony to CPUC, starting in 1987 drought year  
 Sand City Desal assumes 200 AFY with new intake well online; During 2nd year of drought and remaining drought year 20% reductor

Base Year Water Demand is 9,813 AF, the 2023 10-year average; Assume to be split 65% Residential, 35% Non-Residential  
 Residential Demand yearly increase: 36 AFY based on 2x 2022 AMBAG Regional Growth Forecast (population)  
 Non-Residential yearly increase: 27 AFY based on 2x 2022 AMBAG Regional Growth Forecast (jobs)

Initial storage includes ASR balance, excludes PWM Operating Reserve



# Exhibit 1



Monterey Peninsula Water Supply Assessment  
For 59 Years Following Pure Water Monterey Expansion

Scenario 6

Forecast Year	Water Year Class	Derived From Year	Water Supplies not Affected by Drought				Water Supplies Affected by Drought				Water Demand				Total Water Demand	Surplus	Deficit	Stored Water EOY	Available in Year Plus Prior Year Storage
			Carmel River	Seaside Basin	Seaside Basin	Malpasos	Pure Water Monterey Base	Pure Water Monterey Expansion	Aquifer Storage & Recovery (ASR)	Sand City Desal	Total Water Available	Residential Water Demand	Non-Residential Water Demand	Residential Water Demand					
1	Dry	1987	3,376	1,177	20	86	3,500	2,139	791	190	11,279	6,378	3,435	9,813	685	0	2,844	12,720	
2	Critically Dry	1988	3,376	1,474	20	86	3,500	1,905	0	200	10,561	6,414	3,462	9,876	582	0	3,426	13,365	
3	Critically Dry	1989	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,450	3,489	9,939	519	0	3,946	13,948	
4	Critically Dry	1990	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,486	3,516	10,002	456	0	4,402	14,467	
5	Dry	1991	3,376	1,474	20	86	3,500	1,905	230	160	10,751	6,558	3,570	10,128	623	0	5,025	15,153	
6	Normal	1992	3,376	774	20	86	3,500	2,250	280	160	10,446	6,594	3,597	10,191	255	0	5,280	15,471	
7	Wet	1993	3,376	774	20	86	3,500	2,250	1,060	200	11,266	6,630	3,624	10,254	1,012	0	6,292	16,546	
8	Critically Dry	1994	3,376	774	20	86	3,500	1,905	140	200	10,001	6,666	3,651	10,317	0	316	5,977	16,294	
9	Extremely Wet	1995	3,376	774	20	86	3,500	2,250	1,450	200	11,656	6,702	3,678	10,380	1,276	0	7,253	17,633	
10	Above Normal	1996	3,376	774	20	86	3,500	2,250	960	200	11,166	6,738	3,705	10,443	723	0	7,976	18,419	
11	Above Normal	1997	3,376	774	20	86	3,500	2,250	1,070	200	11,276	6,774	3,732	10,506	770	0	8,746	19,252	
12	Extremely Wet	1998	3,376	774	20	86	3,500	2,250	1,580	200	11,786	6,810	3,759	10,569	1,217	0	9,964	20,533	
13	Normal	1999	3,376	774	20	86	3,500	2,250	1,140	200	11,346	6,846	3,786	10,632	714	0	10,678	21,310	
14	Above Normal	2000	3,376	774	20	86	3,500	2,250	917	200	11,123	6,882	3,813	10,695	428	0	11,106	21,801	
15	Normal	2001	3,376	774	20	86	3,500	2,250	790	200	10,996	6,918	3,840	10,758	238	0	11,344	22,102	
16	Below Normal	2002	3,376	774	20	86	3,500	2,250	571	200	10,777	6,954	3,867	10,821	0	44	11,300	22,121	
17	Normal	2003	3,376	774	20	86	3,500	2,250	1,330	200	11,536	6,990	3,894	10,884	652	0	11,952	22,836	
18	Below Normal	2004	3,376	774	20	86	3,500	2,250	520	200	10,726	7,026	3,921	10,947	0	221	11,731	22,678	
19	Wet	2005	3,376	774	20	86	3,500	2,250	1,447	200	11,653	7,062	3,948	11,010	643	0	12,374	23,384	
20	Wet	2006	3,376	774	20	86	3,500	2,250	1,330	200	11,536	7,098	3,975	11,073	463	0	12,837	23,910	
21	Critically Dry	2007	3,376	774	20	86	3,500	1,905	145	200	10,006	7,134	4,002	11,136	0	1,130	11,707	22,843	
22	Normal	2008	3,376	774	20	86	3,500	2,250	634	200	10,840	7,170	4,029	11,199	0	359	11,348	22,547	
23	Normal	2009	3,376	774	20	86	3,500	2,250	508	200	10,714	7,206	4,056	11,262	0	548	10,800	22,062	
24	Above Normal	2010	3,376	774	20	86	3,500	2,250	1,399	200	11,605	7,242	4,083	11,325	280	0	11,080	22,405	
25	Above Normal	2011	3,376	774	20	86	3,500	2,250	1,395	200	11,601	7,278	4,110	11,388	213	0	11,293	22,681	
26	Dry	2012	3,376	774	20	86	3,500	1,905	151	200	10,012	7,314	4,137	11,451	0	1,439	9,854	21,305	
27	Dry	2013	3,376	774	20	86	3,500	1,905	476	160	10,297	7,350	4,164	11,514	0	1,217	8,637	20,151	
28	Critically Dry	2014	3,376	774	20	86	3,500	1,905	0	160	9,821	7,386	4,191	11,577	0	1,756	6,882	18,459	
29	Dry	2015	3,376	774	20	86	3,500	1,905	190	160	10,011	7,422	4,218	11,640	0	1,629	5,253	16,893	
30	Normal	2016	3,376	774	20	86	3,500	2,250	790	160	10,956	7,458	4,245	11,703	0	747	4,506	16,209	

# Exhibit 1

31	Extremely Wet	2017	3,376	1,474	20	86	3,500	2,250	1,470	160	12,336	7,494	4,272	11,766	570	0	5,076	16,842
32	Below Normal	2018	3,376	1,474	20	86	3,500	2,250	199	160	11,065	7,530	4,299	11,829	0	764	4,312	16,141
33	Extremely Wet	2019	3,376	1,474	20	86	3,500	2,250	1,310	160	12,176	7,566	4,326	11,892	284	0	4,596	16,488
34	Normal	2020	3,376	1,474	20	86	3,500	2,250	1,230	160	12,096	7,602	4,353	11,955	141	0	4,737	16,692
35	Dry	2021	3,376	1,474	20	86	3,500	1,905	60	200	10,621	7,638	4,380	12,018	0	1,397	3,341	15,359
36	Above Normal	1963	3,376	1,474	20	86	3,500	2,250	1,190	200	12,096	7,674	4,407	12,081	15	0	3,356	15,437
37	Dry	1964	3,376	1,474	20	86	3,500	1,905	260	200	10,821	7,710	4,434	12,144	0	1,323	2,033	14,177
38	Normal	1965	3,376	1,474	20	86	3,500	2,250	920	200	11,826	7,746	4,461	12,207	0	381	1,653	13,860
39	Dry	1966	3,376	1,474	20	86	3,500	1,905	590	200	11,151	7,782	4,488	12,270	0	1,119	534	12,804
40	Wet	1967	3,376	1,474	20	86	3,500	2,250	1,430	200	12,336	7,818	4,515	12,333	3	0	538	12,871
41	Critically Dry	1968	3,376	1,474	20	86	3,500	1,905	90	200	10,651	7,854	4,542	12,396	0	1,745	(1,207)	11,189
42	Extremely Wet	1969	3,376	1,474	20	86	3,500	2,250	1,200	200	12,106	7,890	4,569	12,459	0	353	(1,560)	10,899
43	Normal	1970	3,376	1,474	20	86	3,500	2,250	845	200	11,751	7,926	4,596	12,522	0	771	(2,330)	10,192
44	Below Normal	1971	3,376	1,474	20	86	3,500	2,250	740	200	11,646	7,962	4,623	12,585	0	939	(3,269)	9,316
45	Critically Dry	1972	3,376	1,474	20	86	3,500	1,905	110	200	10,671	7,998	4,650	12,648	0	1,977	(5,245)	7,403
46	Wet	1973	3,376	1,474	20	86	3,500	2,250	1,250	200	12,156	8,034	4,677	12,711	0	555	(5,800)	6,911
47	Above Normal	1974	3,376	1,474	20	86	3,500	2,250	1,490	200	12,396	8,070	4,704	12,774	0	378	(6,178)	6,596
48	Above Normal	1975	3,376	1,474	20	86	3,500	2,250	1,080	200	11,986	8,106	4,731	12,837	0	851	(7,028)	5,809
49	Critically Dry	1976	3,376	1,474	20	86	3,500	1,905	0	200	10,561	8,142	4,758	12,900	0	2,339	(9,367)	3,533
50	Critically Dry	1977	3,376	1,474	20	86	3,500	1,905	0	160	10,521	8,178	4,785	12,963	0	2,442	(11,809)	1,154
51	Extremely Wet	1978	3,376	1,474	20	86	3,500	2,250	1,460	160	12,326	8,214	4,812	13,026	0	700	(12,509)	517
52	Normal	1979	3,376	1,474	20	86	3,500	2,250	1,100	200	12,006	8,250	4,839	13,089	0	1,083	(13,591)	(502)
53	Extremely Wet	1980	3,376	1,474	20	86	3,500	2,250	1,380	200	12,286	8,286	4,866	13,152	0	866	(14,457)	(1,305)
54	Below Normal	1981	3,376	1,474	20	86	3,500	2,250	781	200	11,687	8,322	4,893	13,215	0	1,528	(15,985)	(2,770)
55	Extremely Wet	1982	3,376	1,474	20	86	3,500	2,250	1,640	200	12,546	8,358	4,920	13,278	0	732	(16,717)	(3,438)
56	Extremely Wet	1983	3,376	1,474	20	86	3,500	2,250	1,814	200	12,720	8,394	4,947	13,341	0	621	(17,337)	(3,996)
57	Normal	1984	3,376	1,474	20	86	3,500	2,250	1,190	200	12,096	8,430	4,974	13,404	0	1,308	(18,645)	(5,241)
58	Dry	1985	3,376	1,474	20	86	3,500	1,905	380	200	10,941	8,466	5,001	13,467	0	2,526	(21,170)	(7,703)
59	Wet	1986	3,376	1,474	20	86	3,500	2,250	950	200	11,856	8,502	5,028	13,530	0	1,674	(22,844)	(9,314)

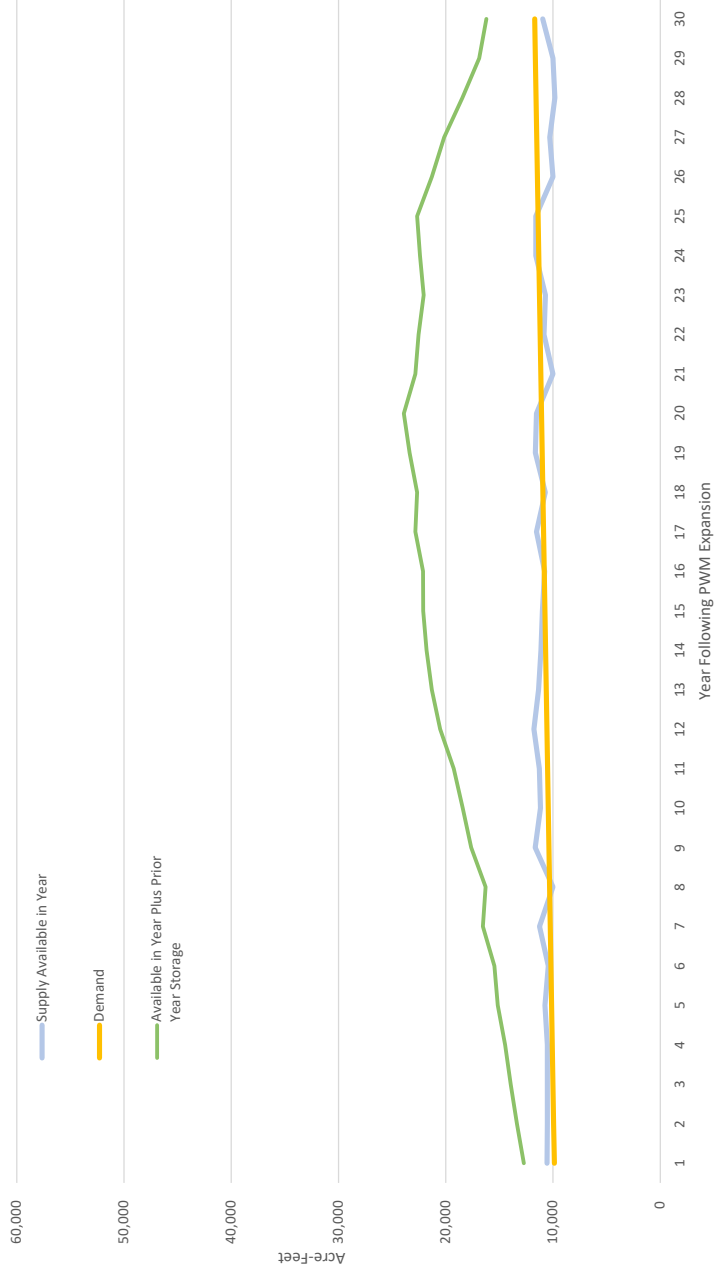
Notes: Seaside Basin Wheeled is comprised of 7.17 AF to Montage and 13 AF to Seaside Ascent project  
 Malpaso is assumed to be 86 AFY production; less losses yields 80 AFY available to meet customer demand  
 ASR Uses actual 59-year record produced by Cal-Am witness in Phase 2 testimony to CPUC, starting in 1987 drought year  
 Sand City Desal assumes 200 AFY with new intake well online; During 2nd year of drought and remaining drought year 20% reductor

Base Year Water Demand is 9,813 AF, the 2023 10-year average; Assume to be split 65% Residential, 35% Non-Residential  
 Residential Demand yearly increase: 36 AFY based on 2x 2022 AMBAG Regional Growth Forecast (population)  
 Non-Residential yearly increase: 27 AFY based on 2x 2022 AMBAG Regional Growth Forecast (jobs)

Initial storage includes ASR balance, excludes PWM Operating Reserve

# Exhibit 1

Supply and Storage Available v. Demand  
30 Years Following PWM Expansion  
Scenario 6



Monterey Peninsula Water Supply Assessment  
For 59 Years Following Pure Water Monterey Expansion

Scenario 7

Forecast Year	Water Year Class	Derived From Year	Water Supplies not Affected by Drought				Water Supplies Affected by Drought				Water Demand				Total Water Demand	Surplus	Deficit	Stored Water EOY	Available in Year Plus Prior Year Storage
			Carmel River	Seaside Basin	Seaside Basin	Malpasos	Pure Monterey Base	Pure Monterey Expansion	Aquifer Storage & Recovery (ASR)	Sand City Desal	Total Water Available	Residential Water Demand	Non-Residential Water Demand	Residential Water Demand					
1	Dry	1987	3,376	1,177	20	86	3,500	2,139	791	193	11,282	6,378	3,435	9,813	685	0	685	10,561	
2	Critically Dry	1988	3,376	1,474	20	86	3,500	1,905	0	200	10,561	6,414	3,462	9,876	582	0	1,267	11,206	
3	Critically Dry	1989	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,450	3,489	9,939	519	0	1,787	11,789	
4	Critically Dry	1990	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,486	3,516	10,002	456	0	2,243	12,308	
5	Dry	1991	3,376	1,474	20	86	3,500	1,905	230	160	10,751	6,558	3,570	10,128	623	0	2,866	12,994	
6	Normal	1992	3,376	774	20	86	3,500	2,250	280	160	10,446	6,594	3,597	10,191	255	0	3,121	13,312	
7	Wet	1993	3,376	774	20	86	3,500	2,250	1,060	200	11,266	6,630	3,624	10,254	1,012	0	4,133	14,387	
8	Critically Dry	1994	3,376	774	20	86	3,500	1,905	140	200	10,001	6,666	3,651	10,317	0	316	3,818	14,135	
9	Extremely Wet	1995	3,376	774	20	86	3,500	2,250	1,450	200	11,656	6,702	3,678	10,380	1,276	0	5,094	15,474	
10	Above Normal	1996	3,376	774	20	86	3,500	2,250	960	200	11,166	6,738	3,705	10,443	723	0	5,817	16,260	
11	Above Normal	1997	3,376	774	20	86	3,500	2,250	1,070	200	11,276	6,774	3,732	10,506	770	0	6,587	17,093	
12	Extremely Wet	1998	3,376	774	20	86	3,500	2,250	1,580	200	11,786	6,810	3,759	10,569	1,217	0	7,805	18,374	
13	Normal	1999	3,376	774	20	86	3,500	2,250	1,140	200	11,346	6,846	3,786	10,632	714	0	8,519	19,151	
14	Above Normal	2000	3,376	774	20	86	3,500	2,250	917	200	11,123	6,882	3,813	10,695	428	0	8,947	19,642	
15	Normal	2001	3,376	774	20	86	3,500	2,250	790	200	10,996	6,918	3,840	10,758	238	0	9,185	19,943	
16	Below Normal	2002	3,376	774	20	86	3,500	2,250	571	200	10,777	6,954	3,867	10,821	0	44	9,141	19,962	
17	Normal	2003	3,376	774	20	86	3,500	2,250	1,330	200	11,536	6,990	3,894	10,884	652	0	9,793	20,677	
18	Below Normal	2004	3,376	774	20	86	3,500	2,250	520	200	10,726	7,026	3,921	10,947	0	221	9,572	20,519	
19	Wet	2005	3,376	774	20	86	3,500	2,250	1,447	200	11,653	7,062	3,948	11,010	643	0	10,215	21,225	
20	Wet	2006	3,376	774	20	86	3,500	2,250	1,330	200	11,536	7,098	3,975	11,073	463	0	10,678	21,751	
21	Critically Dry	2007	3,376	774	20	86	3,500	1,905	145	200	10,006	7,134	4,002	11,136	0	1,130	9,548	20,684	
22	Normal	2008	3,376	774	20	86	3,500	2,250	634	200	10,840	7,170	4,029	11,199	0	359	9,189	20,388	
23	Normal	2009	3,376	774	20	86	3,500	2,250	508	200	10,714	7,206	4,056	11,262	0	548	8,641	19,903	
24	Above Normal	2010	3,376	774	20	86	3,500	2,250	1,399	200	11,605	7,242	4,083	11,325	280	0	8,921	20,246	
25	Above Normal	2011	3,376	774	20	86	3,500	2,250	1,395	200	11,601	7,278	4,110	11,388	213	0	9,134	20,522	
26	Dry	2012	3,376	774	20	86	3,500	1,905	151	200	10,012	7,314	4,137	11,451	0	1,439	7,695	19,146	
27	Dry	2013	3,376	774	20	86	3,500	1,905	476	160	10,297	7,350	4,164	11,514	0	1,217	6,478	17,992	
28	Critically Dry	2014	3,376	774	20	86	3,500	1,905	0	160	9,821	7,386	4,191	11,577	0	1,756	4,723	16,300	
29	Dry	2015	3,376	774	20	86	3,500	1,905	190	160	10,011	7,422	4,218	11,640	0	1,629	3,094	14,734	
30	Normal	2016	3,376	774	20	86	3,500	2,250	790	160	10,956	7,458	4,245	11,703	0	747	2,347	14,050	

# Exhibit 1

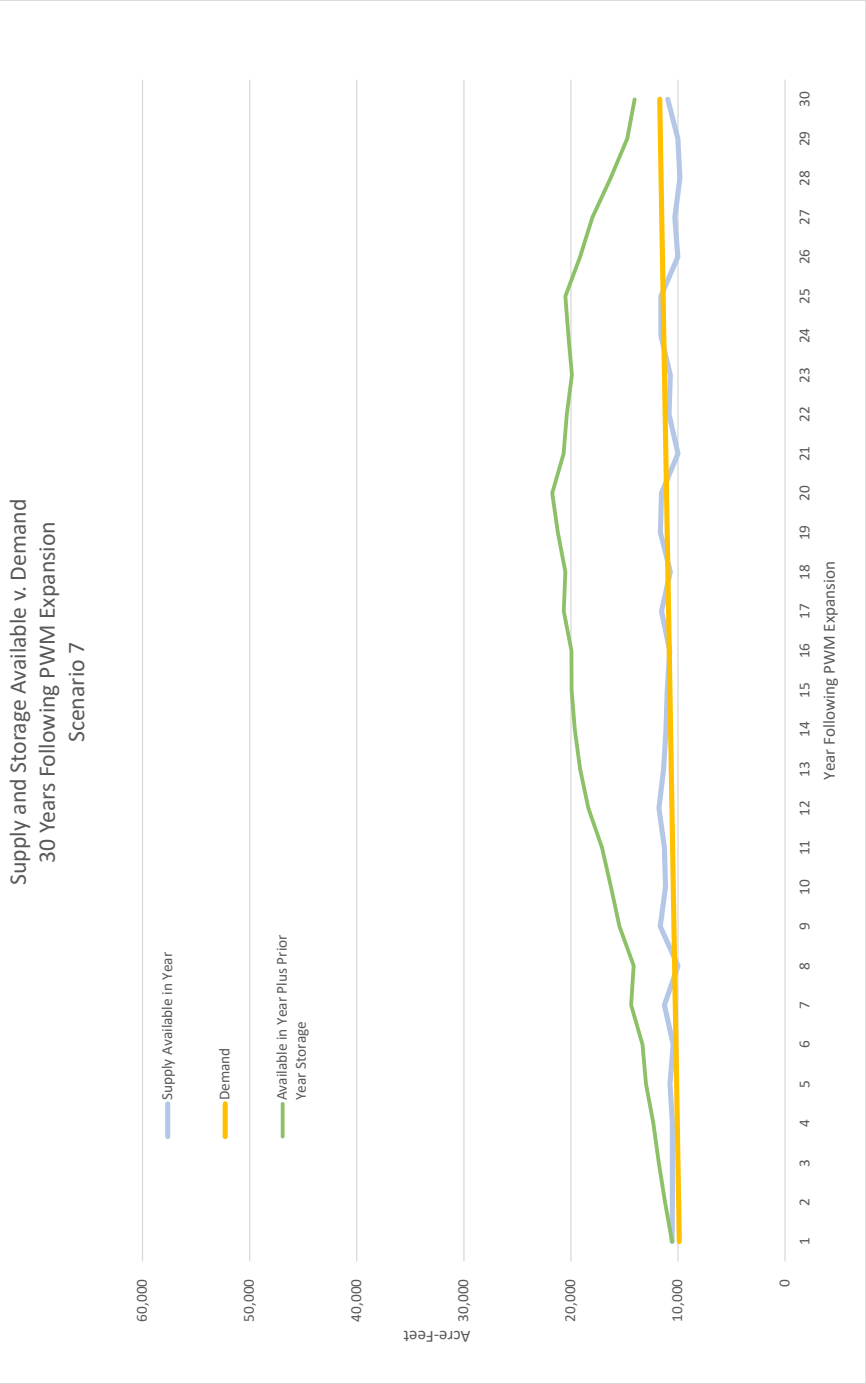
31	Extremely Wet	2017	3,376	1,474	20	86	3,500	2,250	1,470	200	12,376	7,494	4,272	11,766	610	0	2,957	14,723
32	Below Normal	2018	3,376	1,474	20	86	3,500	2,250	199	200	11,105	7,530	4,299	11,829	0	724	2,233	14,062
33	Extremely Wet	2019	3,376	1,474	20	86	3,500	2,250	1,310	200	12,216	7,566	4,326	11,892	324	0	2,557	14,449
34	Normal	2020	3,376	1,474	20	86	3,500	2,250	1,230	200	12,136	7,602	4,353	11,955	181	0	2,738	14,693
35	Dry	2021	3,376	1,474	20	86	3,500	1,905	60	200	10,621	7,638	4,380	12,018	0	1,397	1,342	13,360
36	Above Normal	1963	3,376	1,474	20	86	3,500	2,250	1,190	200	12,096	7,674	4,407	12,081	15	0	1,357	13,438
37	Dry	1964	3,376	1,474	20	86	3,500	1,905	260	200	10,821	7,710	4,434	12,144	34	1,323	34	12,178
38	Normal	1965	3,376	1,474	20	86	3,500	2,250	920	200	11,826	7,746	4,461	12,207	0	381	(346)	11,861
39	Dry	1966	3,376	1,474	20	86	3,500	1,905	590	200	11,151	7,782	4,488	12,270	0	1,119	(1,465)	10,805
40	Wet	1967	3,376	1,474	20	86	3,500	2,250	1,430	200	12,336	7,818	4,515	12,333	3	0	(1,461)	10,872
41	Critically Dry	1968	3,376	1,474	20	86	3,500	1,905	90	200	10,651	7,854	4,542	12,396	0	1,745	(3,206)	9,190
42	Extremely Wet	1969	3,376	1,474	20	86	3,500	2,250	1,200	200	12,106	7,890	4,569	12,459	0	353	(3,559)	8,900
43	Normal	1970	3,376	1,474	20	86	3,500	2,250	845	200	11,751	7,926	4,596	12,522	0	771	(4,329)	8,193
44	Below Normal	1971	3,376	1,474	20	86	3,500	2,250	740	200	11,646	7,962	4,623	12,585	0	939	(5,268)	7,317
45	Critically Dry	1972	3,376	1,474	20	86	3,500	1,905	110	200	10,671	7,998	4,650	12,648	0	1,977	(7,244)	5,404
46	Wet	1973	3,376	1,474	20	86	3,500	2,250	1,250	200	12,156	8,034	4,677	12,711	0	555	(7,799)	4,912
47	Above Normal	1974	3,376	1,474	20	86	3,500	2,250	1,490	200	12,396	8,070	4,704	12,774	0	378	(8,177)	4,597
48	Above Normal	1975	3,376	1,474	20	86	3,500	2,250	1,080	200	11,986	8,106	4,731	12,837	0	851	(9,027)	3,810
49	Critically Dry	1976	3,376	1,474	20	86	3,500	1,905	0	200	10,561	8,142	4,758	12,903	0	2,339	(11,366)	1,534
50	Critically Dry	1977	3,376	1,474	20	86	3,500	1,905	0	160	10,521	8,178	4,785	12,963	0	2,442	(13,808)	(845)
51	Extremely Wet	1978	3,376	1,474	20	86	3,500	2,250	1,460	160	12,326	8,214	4,812	13,026	0	700	(14,508)	(1,482)
52	Normal	1979	3,376	1,474	20	86	3,500	2,250	1,100	200	12,006	8,250	4,839	13,089	0	1,083	(15,590)	(2,501)
53	Extremely Wet	1980	3,376	1,474	20	86	3,500	2,250	1,380	200	12,286	8,286	4,866	13,152	0	866	(16,456)	(3,304)
54	Below Normal	1981	3,376	1,474	20	86	3,500	2,250	781	200	11,687	8,322	4,893	13,215	0	1,528	(17,984)	(4,769)
55	Extremely Wet	1982	3,376	1,474	20	86	3,500	2,250	1,640	200	12,546	8,358	4,920	13,278	0	732	(18,716)	(5,437)
56	Extremely Wet	1983	3,376	1,474	20	86	3,500	2,250	1,814	200	12,720	8,394	4,947	13,341	0	621	(19,336)	(5,995)
57	Normal	1984	3,376	1,474	20	86	3,500	2,250	1,190	200	12,096	8,430	4,974	13,404	0	1,308	(20,644)	(7,240)
58	Dry	1985	3,376	1,474	20	86	3,500	1,905	380	200	10,941	8,466	5,001	13,467	0	2,526	(23,169)	(9,702)
59	Wet	1986	3,376	1,474	20	86	3,500	2,250	950	200	11,856	8,502	5,028	13,530	0	1,674	(24,843)	(11,313)

Notes: Seaside Basin Wheeled is comprised of 7.17 AF to Montage and 13 AF to Seaside Ascent project  
 Malpasco is assumed to be 86 AFY production; less losses yields 80 AFY available to meet customer demand  
 ASR Uses actual 59-year record produced by Cal-Am witness in Phase 2 testimony to CPUC, starting in 1987 drought year  
 Sand City Desal assumes 200 AFY with new intake well online; During 2nd year of drought and remaining drought year 20% reductor

Base Year Water Demand is 9,813 AF, the 2023 10-year average; Assume to be split 65% Residential, 35% Non-Residential  
 Residential Demand yearly increase: 36 AFY based on 2x 2022 AMBAG Regional Growth Forecast (population)  
 Non-Residential yearly increase: 27 AFY based on 2x 2022 AMBAG Regional Growth Forecast (jobs)

Initial storage is zero, excludes PWM Operating Reserve

# Exhibit 1



Monterey Peninsula Water Supply Assessment  
For 59 Years Following Pure Water Monterey Expansion

Scenario 8

Forecast Year	Water Year Class	Derived From Year	Water Supplies not Affected by Drought				Water Supplies Affected by Drought				Water Demand				Total Water Demand	Surplus	Deficit	Stored Water EOY	Available in Year Plus Prior Year Storage
			Carmel River	Seaside Basin	Seaside Basin	Malpasos	Pure Water Monterey Base	Pure Water Monterey Expansion	Aquifer Storage & Recovery (ASR)	Sand City Desal	Total Water Available	Residential Water Demand	Non-Residential Water Demand	Residential Water Demand					
1	Dry	1987	3,376	1,177	20	86	3,500	2,139	791	193	11,282	6,378	3,435	9,813	667	0	667	10,561	
2	Critically Dry	1988	3,376	1,474	20	86	3,500	1,905	0	200	10,561	6,432	3,462	9,894	546	0	546	11,188	
3	Critically Dry	1989	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,486	3,489	9,975	465	0	465	11,735	
4	Critically Dry	1990	3,376	1,474	20	86	3,500	1,905	0	160	10,521	6,540	3,516	10,056	384	0	384	12,200	
5	Dry	1991	3,376	1,474	20	86	3,500	1,905	230	160	10,751	6,648	3,570	10,218	533	0	533	12,814	
6	Normal	1992	3,376	774	20	86	3,500	2,250	280	160	10,446	6,702	3,597	10,299	147	0	147	13,042	
7	Wet	1993	3,376	774	20	86	3,500	2,250	1,060	200	11,266	6,756	3,624	10,380	886	0	886	14,009	
8	Critically Dry	1994	3,376	774	20	86	3,500	1,905	140	200	10,001	6,810	3,651	10,461	0	460	3,170	13,631	
9	Extremely Wet	1995	3,376	774	20	86	3,500	2,250	1,450	200	11,656	6,864	3,678	10,542	1,114	0	4,284	14,826	
10	Above Normal	1996	3,376	774	20	86	3,500	2,250	960	200	11,166	6,918	3,705	10,623	543	0	4,827	15,450	
11	Above Normal	1997	3,376	774	20	86	3,500	2,250	1,070	200	11,276	6,972	3,732	10,704	572	0	5,399	16,103	
12	Extremely Wet	1998	3,376	774	20	86	3,500	2,250	1,580	200	11,786	7,026	3,759	10,785	1,001	0	6,401	17,186	
13	Normal	1999	3,376	774	20	86	3,500	2,250	1,140	200	11,346	7,080	3,786	10,866	480	0	6,881	17,747	
14	Above Normal	2000	3,376	774	20	86	3,500	2,250	917	200	11,123	7,134	3,813	10,947	176	0	7,057	18,004	
15	Normal	2001	3,376	774	20	86	3,500	2,250	790	200	10,996	7,188	3,840	11,028	0	32	7,025	18,053	
16	Below Normal	2002	3,376	774	20	86	3,500	2,250	571	200	10,777	7,242	3,867	11,109	0	332	6,693	17,802	
17	Normal	2003	3,376	774	20	86	3,500	2,250	1,330	200	11,536	7,296	3,894	11,190	346	0	7,039	18,229	
18	Below Normal	2004	3,376	774	20	86	3,500	2,250	520	200	10,726	7,350	3,921	11,271	0	545	6,494	17,765	
19	Wet	2005	3,376	774	20	86	3,500	2,250	1,447	200	11,653	7,404	3,948	11,352	301	0	6,795	18,147	
20	Wet	2006	3,376	774	20	86	3,500	2,250	1,330	200	11,536	7,458	3,975	11,433	103	0	6,898	18,331	
21	Critically Dry	2007	3,376	774	20	86	3,500	1,905	145	200	10,006	7,512	4,002	11,514	0	1,508	5,390	16,904	
22	Normal	2008	3,376	774	20	86	3,500	2,250	634	200	10,840	7,566	4,029	11,595	0	755	4,635	16,230	
23	Normal	2009	3,376	774	20	86	3,500	2,250	508	200	10,714	7,620	4,056	11,676	0	962	3,673	15,349	
24	Above Normal	2010	3,376	774	20	86	3,500	2,250	1,399	200	11,605	7,674	4,083	11,757	0	152	3,521	15,278	
25	Above Normal	2011	3,376	774	20	86	3,500	2,250	1,395	200	11,601	7,728	4,110	11,838	0	237	3,284	15,122	
26	Dry	2012	3,376	774	20	86	3,500	1,905	151	200	10,012	7,782	4,137	11,919	0	1,907	1,377	13,296	
27	Dry	2013	3,376	774	20	86	3,500	1,905	476	160	10,297	7,836	4,164	12,000	0	1,703	(326)	11,674	
28	Critically Dry	2014	3,376	774	20	86	3,500	1,905	0	160	9,821	7,890	4,191	12,081	0	2,260	(2,585)	9,496	
29	Dry	2015	3,376	774	20	86	3,500	1,905	190	160	10,011	7,944	4,218	12,162	0	2,151	(4,736)	7,426	
30	Normal	2016	3,376	774	20	86	3,500	2,250	790	160	10,956	7,998	4,245	12,243	0	1,287	(6,023)	6,220	



# Exhibit 1

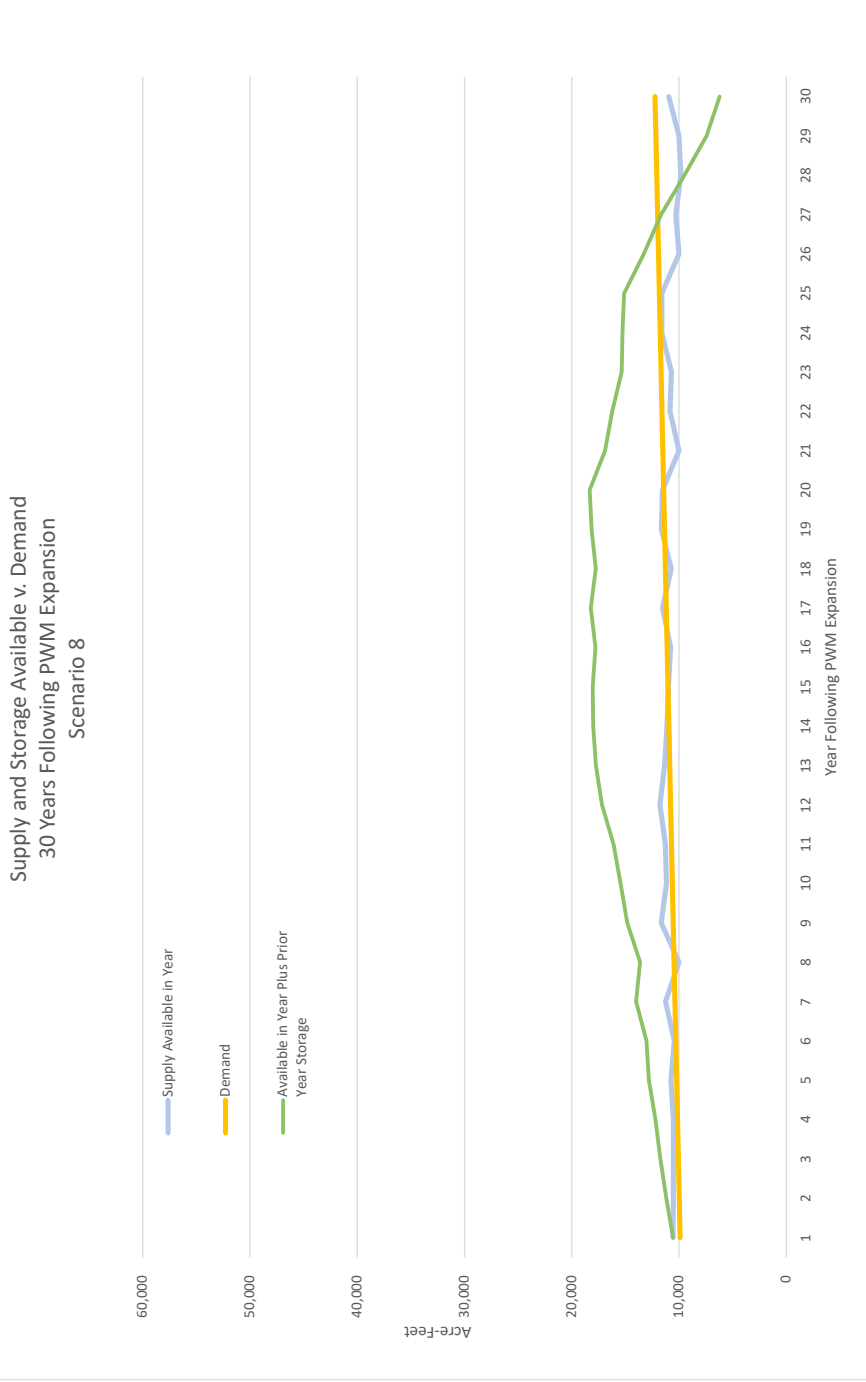
31	Extremely Wet	2017	3,376	1,474	20	86	3,500	2,250	1,470	200	12,376	8,052	4,272	12,324	52	0	(5,971)	6,353
32	Below Normal	2018	3,376	1,474	20	86	3,500	2,250	199	200	11,105	8,106	4,299	12,405	0	1,300	(7,271)	5,134
33	Extremely Wet	2019	3,376	1,474	20	86	3,500	2,250	1,310	200	12,216	8,160	4,326	12,486	0	270	(7,541)	4,945
34	Normal	2020	3,376	1,474	20	86	3,500	2,250	1,230	200	12,136	8,214	4,353	12,567	0	431	(7,972)	4,595
35	Dry	2021	3,376	1,474	20	86	3,500	1,905	60	200	10,621	8,268	4,380	12,648	0	2,027	(9,998)	2,650
36	Above Normal	1963	3,376	1,474	20	86	3,500	2,250	1,190	200	12,096	8,322	4,407	12,729	0	633	(10,631)	2,098
37	Dry	1964	3,376	1,474	20	86	3,500	1,905	260	200	10,821	8,376	4,434	12,810	0	1,989	(12,620)	190
38	Normal	1965	3,376	1,474	20	86	3,500	2,250	920	200	11,826	8,430	4,461	12,891	0	1,065	(13,684)	(793)
39	Dry	1966	3,376	1,474	20	86	3,500	1,905	590	200	11,151	8,484	4,488	12,972	0	1,821	(15,505)	(2,533)
40	Wet	1967	3,376	1,474	20	86	3,500	2,250	1,430	200	12,336	8,538	4,515	13,053	0	717	(16,221)	(3,168)
41	Critically Dry	1968	3,376	1,474	20	86	3,500	1,905	90	200	10,651	8,592	4,542	13,134	0	2,483	(18,704)	(5,570)
42	Extremely Wet	1969	3,376	1,474	20	86	3,500	2,250	1,200	200	12,106	8,646	4,569	13,215	0	1,109	(19,813)	(6,598)
43	Normal	1970	3,376	1,474	20	86	3,500	2,250	845	200	11,751	8,700	4,596	13,296	0	1,545	(21,357)	(8,061)
44	Below Normal	1971	3,376	1,474	20	86	3,500	2,250	740	200	11,646	8,754	4,623	13,377	0	1,731	(23,088)	(9,711)
45	Critically Dry	1972	3,376	1,474	20	86	3,500	1,905	110	200	10,671	8,808	4,650	13,458	0	2,787	(25,875)	(12,417)
46	Wet	1973	3,376	1,474	20	86	3,500	2,250	1,250	200	12,156	8,862	4,677	13,539	0	1,383	(27,257)	(13,718)
47	Above Normal	1974	3,376	1,474	20	86	3,500	2,250	1,490	200	12,396	8,916	4,704	13,620	0	1,224	(28,481)	(14,861)
48	Above Normal	1975	3,376	1,474	20	86	3,500	2,250	1,080	200	11,986	8,970	4,731	13,701	0	1,715	(30,195)	(16,494)
49	Critically Dry	1976	3,376	1,474	20	86	3,500	1,905	0	200	10,561	9,024	4,758	13,782	0	3,221	(33,416)	(19,634)
50	Critically Dry	1977	3,376	1,474	20	86	3,500	1,905	0	160	10,521	9,078	4,785	13,863	0	3,342	(36,758)	(22,895)
51	Extremely Wet	1978	3,376	1,474	20	86	3,500	2,250	1,460	160	12,326	9,132	4,812	13,944	0	1,618	(38,376)	(24,432)
52	Normal	1979	3,376	1,474	20	86	3,500	2,250	1,100	200	12,006	9,186	4,839	14,025	0	2,019	(40,394)	(26,369)
53	Extremely Wet	1980	3,376	1,474	20	86	3,500	2,250	1,380	200	12,286	9,240	4,866	14,106	0	1,820	(42,214)	(28,108)
54	Below Normal	1981	3,376	1,474	20	86	3,500	2,250	781	200	11,687	9,294	4,893	14,187	0	2,500	(44,714)	(30,527)
55	Extremely Wet	1982	3,376	1,474	20	86	3,500	2,250	1,640	200	12,546	9,348	4,920	14,268	0	1,722	(46,436)	(32,168)
56	Extremely Wet	1983	3,376	1,474	20	86	3,500	2,250	1,814	200	12,720	9,402	4,947	14,349	0	1,629	(48,064)	(33,715)
57	Normal	1984	3,376	1,474	20	86	3,500	2,250	1,190	200	12,096	9,456	4,974	14,430	0	2,334	(50,398)	(35,968)
58	Dry	1985	3,376	1,474	20	86	3,500	1,905	380	200	10,941	9,510	5,001	14,511	0	3,570	(53,967)	(39,456)
59	Wet	1986	3,376	1,474	20	86	3,500	2,250	950	200	11,856	9,564	5,028	14,592	0	2,736	(56,703)	(42,111)

Notes: Seaside Basin Wheeled is comprised of 7.17 AF to Montage and 13 AF to Seaside Ascent project  
 Malpasco is assumed to be 86 AFY production; less losses yields 80 AFY available to meet customer demand  
 ASR Uses actual 59-year record produced by Cal-Am witness in Phase 2 testimony to CPUC, starting in 1987 drought year  
 Sand City Desal assumes 200 AFY with new intake well online; During 2nd year of drought and remaining drought year 20% reductor

Base Year Water Demand is 9,813 AF, the 2023 10-year average; Assume to be split 65% Residential, 35% Non-Residential  
 Residential Demand yearly increase: 54 AFY based on 3x 2022 AMBAG Regional Growth Forecast (population)  
 Non-Residential yearly increase: 27 AFY based on 2x 2022 AMBAG Regional Growth Forecast (jobs)

Initial storage is zero, excludes PWM Operating Reserve

# Exhibit 1



## Exhibit 2

Exhibit 2



Monterey Peninsula Water Management District  
Technical Memorandum

2022 Supply and Demand Forecast  
Adopted September 19, 2022

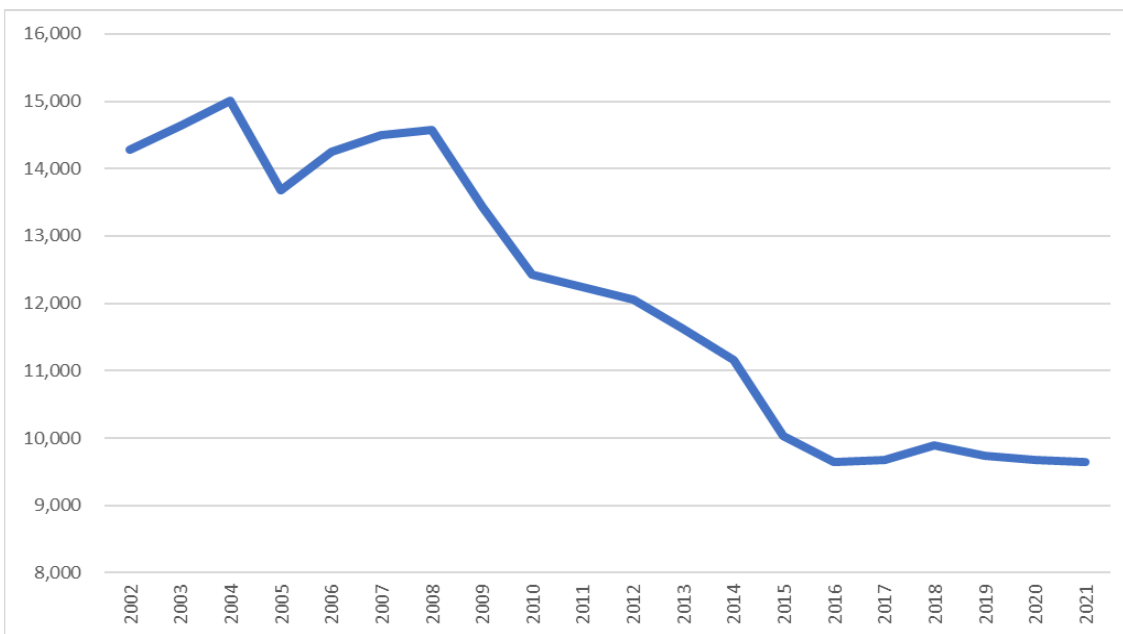
## Exhibit 2

### **Water Demand**

At its basic level, planning water supply is being able to answer three simple questions: (i) What is our usage today (current demand)? (ii) What will we need in the future (future demand)? and, (iii) when will we get there (growth rate)? The answers translate to how much supply will be needed each year going forward. In addition, the planner also has to examine if there is enough supply available to reliably serve the 10-Year Maximum Daily Demand (MDD) and Peak Hour Demand (PHD) in the higher demand months, per the California Code of Regulations (CCR) section 64554.

The 5-year average demand from 2017-2021 was 9,725 AFY. As can be seen in Figure 1 below, the trend in water demand has been declining, but relatively steady the past seven years.

Figure 1  
Trend in Annual Water Demand



Using a fully-vetted third-party growth forecast is a very objective way for projecting water demand increase. AMBAG implemented an employment-driven forecast model for the first time in the 2014 forecast and contracted with the Population Reference Bureau (PRB) to test and apply the model again for the 2018 Regional Growth Forecast (RGF). To ensure the reliability of the population projections, PRB compared the employment driven model results with results from a cohort-component forecast, a growth trend forecast, and the most recent forecast published by the California Department of Finance (DOF). All four models resulted in similar

## Exhibit 2

population growth trends. As a result of these reliability tests, AMBAG and PRB chose to implement the employment-driven model again for the 2022 Regional Growth Forecast.

AMBAG has captured the factors that influence both residential and non-residential water demand growth in its Regional Growth Forecast. AMBAG's Final 2022 Regional Growth Forecast is utilized by AMBAG in its 2045 Metropolitan Transportation Plan and Sustainable Communities Strategy (MTP/SCS) adopted in May 2022. The 2045 MTP/SCS includes a planning period through 2045. The years forecasted include 2025, 2030, 2035, 2040, and 2045. The forecast the same model that predicts employment growth using a shift-share model based on local data as well as state and national trends. Population growth is then driven by employment growth. Household and housing growth are driven by population growth, demographic factors and external factors. While the methodology for the 2022 Regional Growth Forecast has remained the same through three planning cycles, the models have been updated for the Moving Forward 2045 Monterey Bay Plan to include current data, a revised base year of 2020 and a new horizon year of 2045.

Houses and empty lots do not use water, people do. The portion of the AMBAG Regional Growth Forecast that forecasts population captures that water demand for residential purposes. Hence, the housing envisioned for Legal Lots of Record, within Pebble Beach, or elsewhere is affiliated with the population growth forecast.

Similarly, economic growth is captured in the AMBAG Regional Growth Forecast by the growth in jobs. Both Cal-Am<sup>1</sup> and the District have utilized job growth as a proxy for non-residential water demand growth. Hence, the commercial growth envisioned for Legal Lots of Record, within Pebble Beach, or due to increased tourism is affiliated with the growth in the jobs forecast.

AMBAG conducted 22 one-on-one meetings with local jurisdictions in the Cal-Am Main service area,<sup>2</sup> where AMBAG discussed the Regional Growth Forecast estimates, subregional allocations, and recent trends at the Planning Directors Forum in August 2019, January 2020, and August 2020. Those meetings were the opportunity for the jurisdictions to voice concerns that other growth-related activities needed to be reflected and incorporated into the growth forecast.

<sup>1</sup> Phase 2 Direct Testimony of Ian C. Crooks, Attachment A, 2022 Urban Water Management Plan, p.4-7: "For non-residential customers, water use will increase at the rate of employment growth forecasted by AMBAG."

<sup>2</sup> Attachment A hereto, Final 2022 Regional Growth Forecast, Attachment 1.

## Exhibit 2

Regional Housing Needs Allocation (RHNA) housing numbers are also embedded in the Regional Growth Forecast. “The regional growth forecast (RGF) is an important reference point in the RHNA process.”<sup>3</sup>

“The 2045 MTP/SCS includes an updated RHNA. The 6th Cycle Regional Housing Needs Determination (RHND) from HCD to AMBAG is 33,274 units.”<sup>4</sup> The final growth forecast was adopted along with the 2045 Metropolitan Transportation Plan/Sustainable Communities in June 2022. The 6<sup>th</sup> Cycle RHNA Plan itself recognizes that it is contained within the 2045 MTP/SCS which utilizes the AMBAG 2022 Regional Growth Forecast. “May 2022 – AMBAG releases final 2045 Metropolitan Transportation Plan/Sustainable Communities Strategy (MTP/SCS) accommodating RHNA.”<sup>5</sup> They are all tied together.

Since the City of Seaside is not entirely served by Cal-Am’s service area, only half of the future units for Seaside are assumed to be within the Cal-Am service area.” However, any future housing permitted and built in the old Fort Ord area of the cities of Monterey, Del Rey Oaks, or Seaside would also be served by Marina Coast Water District, not Cal-Am. Similarly, any housing units to be built in unincorporated Carmel Valley may be served by existing supplies that are not Cal-Am’s future supplies, but perhaps “wheeled” by Cal-Am – including 130 units at Carmel Valley Village, as well as September Ranch, that will apply against the RHNA goal, but not require a new supply to be met by Cal-Am. MPWMD believes the water for housing requirements that will be met by others should be as follows: Seaside 50% (same as Cal-Am’s own assumption), Del Rey Oaks 20%, Monterey 10%, unincorporated County 30% and should be applied as a discount to future residential water demand. These discounts will be reflected in MPWMD’s demand forecast shown below.

Many people incorrectly interpret the RHNA process as requiring housing units to be built within the next 8 years. That is not the case. The role of local governments is to participate in the development of the allocation methodology and to update their Housing Elements within the County General Plans and local zoning to show how they will accommodate their share of the housing, following the adoption of the RHNA methodology. It is a planning and zoning process. It is not a building process.

The September 8-14, 2022 edition of The Monterey County Weekly states: “Cities and counties do not have to guarantee the units will be built by 2031, but they do have to rezone areas and remove barriers to developer who may take on the actual construction.” The City of Lafayette describes the process as “the RHNA allocation is not a prescription to build any units. And, the

<sup>3</sup> Attachment C hereto, Draft 6<sup>th</sup> Cycle Regional Housing Needs Allocation Plan 2023-2031, April 2022, p. 5.

<sup>4</sup> Attachment B hereto, Monterey Bay 2045 – Moving Forward, AMBAG, June 2022, Excerpts, pp. 4-38.

<sup>5</sup> Attachment B hereto, Draft 6<sup>th</sup> Cycle Regional Housing Needs Allocation Plan 2023-2031, April 2022, p. 13.

## Exhibit 2

City itself does not build units; private developers do. The City is only required to show that there is enough land zoned at appropriate densities to accommodate this need, should a developer want to build these units. In addition, the City must demonstrate that its codes and requirements do not unduly constrain the building of housing (for example, it needs to show that housing can be built “as-of-right” in some zones, without requiring a land use permit).”<sup>6</sup> Or, as the City of Santa Monica adds: “It is important to recognize that the RHNA is a targeted housing number - Cities and counties do not have to build this number of units, but rather they are required by the state to plan for them and demonstrate that under the current land use and development standards, there is capacity to accommodate for this number of housing units.”<sup>7</sup>

This concept is reinforced by Sand City’s appeal and statement “it is inconceivable how the City could meet the goals of the current RHNA allocation. The City of Sand City requests AMBAG lower Sand City's allotment to a number that is actually achievable in light of its small size and noted constraints” and Pacific Grove Councilmember’s statement “Do I think Pacific Grove will really build all (1,125 units)? No, but we’re putting a policy in place that is supportive of additional housing. Our staff’s job is to show that the city in good faith is implementing policing, zoning or incentives to do so.”<sup>8</sup>

The ability of the Monterey Peninsula to generate or “absorb” the housing and commercial growth will help determine when such water supply is needed. The average growth in, or absorption of, water use in the decade preceding the Cease and Desist Order (CDO) was during a period of relative economic stability, available property, no moratorium on new service connections, and lower water rates, yet only resulted in 16.4 AF per year of absorption. Things do not develop quickly on the Monterey Peninsula. MPWMD analysis below shows 31.4 AF per year, almost twice as much as the historical rate, based on the AMBAG forecast.

To summarize:

- Legal Lots of Record: Population moves to the area and lives in either existing housing stock or new housing stock built on Legal Lots of Record. Housing is already included in the AMBAG Regional Growth Forecast. Thus, Legal Lots of Record is not additive.
- Tourism Rebound: Non-residential economic growth is captured in the AMBAG Regional Growth Forecast and is not additive.
- Pebble Beach Entitlements: The entitlements represent new housing and commercial growth in the unincorporated County area of Pebble Beach. Hence, it is encapsulated within the AMBAG Regional Growth Forecast and is not additive.

<sup>6</sup> Attachment E hereto, Frequently Asked Questions About RHNA, pp. 17, 19 et al.

<sup>7</sup> *Id.*, p. 16.

<sup>8</sup> *Id.*, pp. 21, 23-24.



## Exhibit 2

- RHNA Housing Numbers: The new 6<sup>th</sup> Cycle Regional Housing Needs Allocation Plan 2023-2031 is reflected within the AMBAG Regional Growth Forecast and is not additive.

MPWMD’s forecast is based on the AMBAG 2022 Regional Growth Forecast and uses current 5-year average water production, a measure of the total water required to “feed” the system for customer use, before losses and fire flows, as the base. Starting with three years of actual consumption data (2017, 2018, and 2019 – pre-COVID), MPWMD allocated consumption for residential and non-residential by political jurisdiction, based on the proportionate percentages of each then mapped the current base production to the same proportions.<sup>9</sup>

Assuming all prospective population and housing growth is captured in AMBAG’s Regional Growth Forecast and all commercial economic expansion occurs at the same rate as AMBAG’s employment projections, MPWMD offers the following water demand forecast:

Table 1  
Water Required for Population Growth<sup>10</sup>

	Monterey	Pacific Grove	Carmel-by-the-Sea	Seaside	Del Rey Oaks	Sand City	County <sup>11</sup>	TOTAL
Population in 2020	28,170	15,265	3,949	33,537	1,662	385	8,916	91,884
Population in 2045	29,639	15,817	3,984	38,316	2,650	1,198	9,916	101,520
Increase	5.2%	3.6%	0.9%	14.2%	59.4%	211.2%	11.2%	10.5%
Acre-Feet in 2020	1,675	908	413	1,015	92	21	2,221	6,345
Acre-Feet by 2045	1,762	941	417	1,160	146	65	2,471	6,961
AF Served by Others <sup>12</sup>	9	-	-	72	11	-	75	167
Net AF in 2045	1,753	941	417	1,087	135	65	2,396	6,795

<sup>9</sup> Attachment D hereto, Data and Methodology to Support MPWMD Forecast of Water Demand

<sup>10</sup> Attachment A hereto, Final 2022 Regional Growth Forecast

<sup>11</sup> To estimate unincorporated County population, use Cal-Am service area population reported in SWRCB Urban Water Supplier Monthly Reports (Raw Dataset), May 2022 value, minus urban areas. Estimate 1,000 residents added by 2045.

[https://www.waterboards.ca.gov/water\\_issues/programs/conservation\\_portal/conservation\\_reporting.html](https://www.waterboards.ca.gov/water_issues/programs/conservation_portal/conservation_reporting.html).

<sup>12</sup> This represents the portion of new residents in the jurisdiction who will reside in units served by water other than Cal-Am’s Main system. Non-Residential water demand served by others has not been designated.

## Exhibit 2

Table 2  
Water Required for Employment Growth<sup>13</sup>

	<b>Monterey</b>	<b>Pacific Grove</b>	<b>Carmel-by-the-Sea</b>	<b>Seaside</b>	<b>Del Rey Oaks</b>	<b>Sand City</b>	<b>County<sup>14</sup></b>	<b>TOTAL</b>
Jobs in 2020	40,989	8,016	3,566	10,476	748	2,092	4,300	70,187
Jobs in 2045	45,509	8,445	3,915	11,543	834	2,259	4,721	77,226
Increase	11.0%	5.4%	9.8%	10.2%	11.5%	8.0%	9.8%	10.0%
Non-Residential AF in 2020	1,547	332	225	336	22	66	853	3,380
Non-Residential AF in 2045	1,718	349	247	370	24	71	936	3,716
Increase	171	18	22	34	3	5	83	336

These AMBAG Regional Growth Forecast values can be converted to a long-term water demand forecast in the following manner:

Table 3  
Calculation of Future (Year 2045) Water Demands

	<b>Base Year (2020)</b>	<b>Estimate For 2045 AMBAG</b>	<b>AF per Year</b>
Net Water for Population	6,345 AF	6,795 AF	18.00
Water for Non-Residential	3,380 AF	3,716 AF	13.44
Total	9,725 AF	10,511 AF	31.44

This future year growth rate, applied annually, results in the following water demand forecast:

<sup>13</sup> Attachment A hereto, Final 2022 Regional Growth Forecast.

<sup>14</sup> California Employment Development Department, Monthly Labor Force Data for Cities and Census Designated Places. November 15, 2019. Sum of Carmel Valley Village CDP and Del Monte Forest CDP. Escalated at same rate as Carmel-by-the-Sea.

## Exhibit 2

Table 4  
MPWMD Water Demand Forecast

	2020	2025	2030	2035	2040	2045	2050	2055
Water Demand - AF	9,725	9,882	10,039	10,196	10,353	10,511	10,668	10,825

This demand forecast does not need to be increased by a “peaking factor” to meet the Maximum Month Demand, Maximum Day, or Peak Hourly Demand. As explained later in the section about “Water Supply”, it is not necessary to provide additional supplies if water resources stored can be utilized to meet peak demands. Instead, stored water can be accessed with increased production well capacity, rather than over-building supplies. It is always in the ratepayer’s interest to build one or two additional production wells for \$3 million each, rather than a \$321 million<sup>15</sup> desalination plant if stored water can be utilized to meet peak demands.

### **WATER SUPPLY**

Available sources of supply are shown in Table 5 below and are described in the discussion that follows.

Table 5  
Monterey Peninsula Available Supply  
(Acre-Feet Annually)

Supply Source	w/ PWM Expansion
Pure Water Monterey	3,500
PWM Expansion	2,250
Carmel River	3,376
Seaside Basin	774
Aquifer Storage & Recovery (ASR)	1,300
Sand City Desalination Plant	210
Table 13 Water Rights	0
Malpaso Water Rights	58
<b>Total Available Supply</b>	<b>11,468</b>

<sup>15</sup> From Attachment C-3 of Advice Letter AL 1220-A, September 10, 2019. Proposed costs for Cal-Am desalination plant have not been updated for many years. Given current inflation, supply chain issues, and increased construction cost environment, the desalination plant costs should be updated.

## Exhibit 2

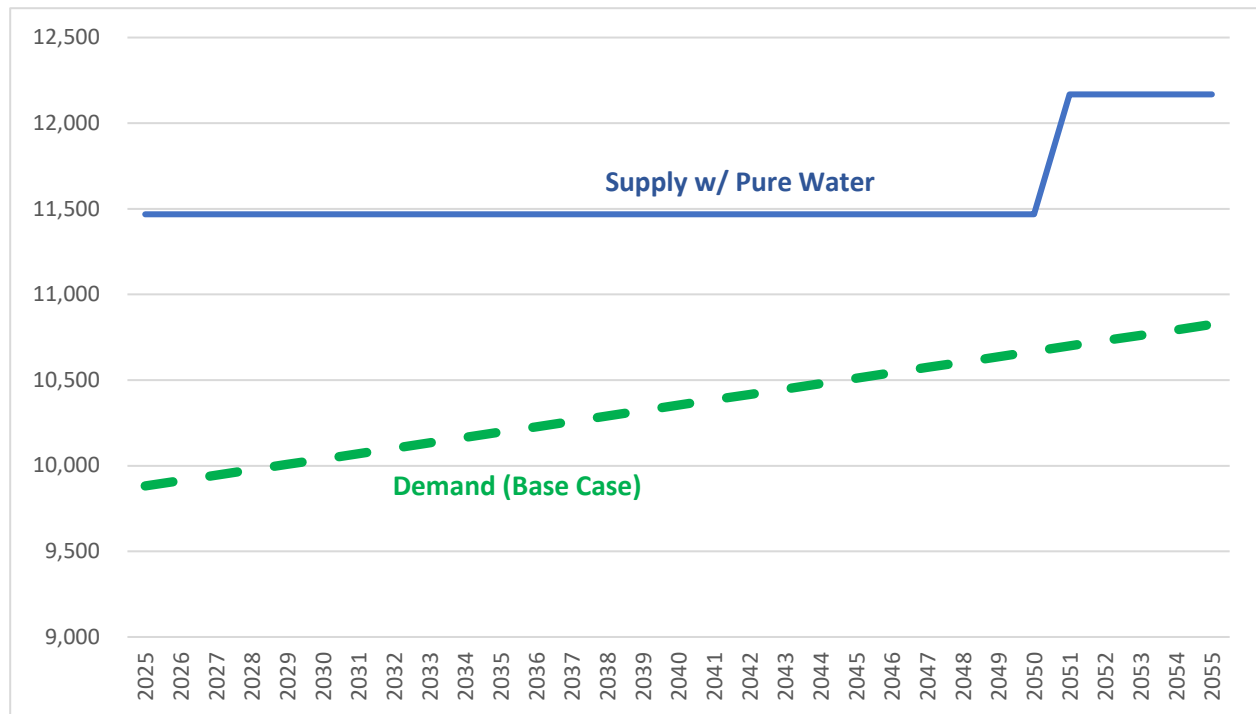
### SUPPLY v. DEMAND

By comparing future supplies available inclusive of Pure Water Monterey Expansion and comparing to the expected long-term water demand<sup>16</sup>, future water supply beyond a Pure Water Monterey Expansion, such as a desalination plant, can be determined if needed for the Monterey Peninsula

The future Supply versus Demand analysis shows that the addition of the Pure Water Monterey Expansion meets the region's demand needs for over 30 years and a new Cal-Am desalination plant, or some other alternative, is not needed.

Applying the 31.44 AFY from Table 3 linearly across a 30-year horizon results in the demands shown in the figure below showing expected supply versus demand.

Figure 2  
Water Supply Available  
vs.  
Water Demand for AMBAG 2022 Regional Growth Forecast

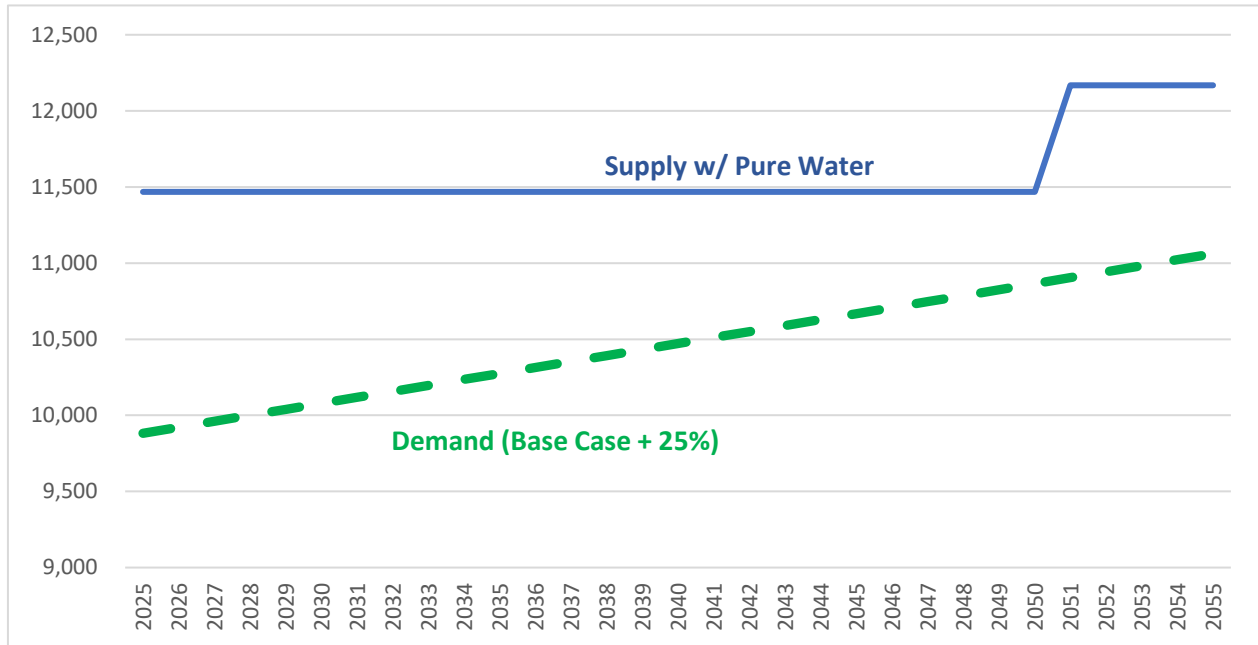


<sup>16</sup> Attachment F hereto, Evaluation of Water Supply Available versus Water Demand.

## Exhibit 2

MPWMD also analyzed a demand forecast 25% higher, at 39.3 AF per year of average growth. That result is shown in Figure 3, below:

Figure 3  
Water Supply Available  
vs.  
Water Demand for AMBAG 2022 Regional Growth Forecast  
Plus 25% for Forecasting Error



MPWMD also analyzed a demand forecast 50% higher, at 47.2 AF per year of average growth. At that level, available supplies (with Pure Water Monterey Expansion, without a desalination plant) exceed water demand for over 30 years. In fact, MPWMD's model shows that at 63 AF per year of average growth – 200% of or twice the water forecasted to be required for the AMBAG 2022 Regional Growth Forecast – supplies are available for over 30 years.

A contingency can be achieved by having additional stored water available to call upon at any time. This can be achieved by building up available storage in the early years where supply exceeds demand. As seen in Figures 2 and 3 above, and in the last columns of Attachment F, in the initial years following completion and availability of Pure Water Monterey Expansion (2025) the available supplies exceed demands by over 1,500 AF per year. In the very first year, more than 10% of available supplies (1,147 AF) can be stored to satisfy any contingency.

Water for available storage is shown below:

## Exhibit 2

Table 6  
Water Available for Storage  
(With Pure Water Monterey Expansion, without Desalination)

Year	Storage Available Base Case Demand	Storage Available Base Case Demand + 25% Error	Year	Storage Available Base Case Demand	Storage Available Base Case Demand + 25% Error
2025	1,586	1,586	2041	1,083	957
2026	1,555	1,547	2042	1,052	918
2027	1,523	1,507	2043	1,020	879
2028	1,492	1,468	2044	989	839
2029	1,460	1,429	2045	957	800
2030	1,429	1,390	2046	926	761
2031	1,397	1,350	2047	894	721
2032	1,366	1,311	2048	863	682
2033	1,334	1,272	2049	831	643
2034	1,303	1,232	2050	800	604
2035	1,272	1,193	2051	1,469	1,264
2036	1,240	1,154	2052	1,437	1,225
2037	1,209	1,114	2053	1,406	1,186
2038	1,177	1,075	2054	1,374	1,146
2039	1,146	1,036	2055	<u>1,343</u>	<u>1,107</u>
2040	1,114	997	Total	38,046	34,392

In addition to eliminating a need for a contingency from bigger water supply construction, the stored water can be used for peaking to meet maximum month demands (MMD), maximum day demand (MDD), and peak hourly demand (PHD) without building more supply projects. As stated earlier, it is always in the ratepayer’s interest to build one or two additional production wells for \$3 million each, rather than a \$321 million desalination plant if stored water can be utilized to meet peak demands.

Stored water can also be used as a drought reserve and to provide protective water levels in the Seaside Groundwater Basin. In fact, the average water to storage in the base case above in Table 6 is 1,268 AFY – far in excess of recommended protective water levels for the basin.

If the Monterey Peninsula were to experience drought during the initial “buildup period” of ASR reserves following the completion of new water supply and the lifting of the CDO, ASR would arguably be delayed in building up a drought reserve, but it should not be overlooked that a Pure Water Monterey Expansion is new capacity without an immediate offsetting demand. That is, 2,250 AFA from Pure Water Monterey Expansion would provide an off-set in the early years if

## Exhibit 2

ASR's drought reserve has not yet built-up. Just a few years of Pure Water Monterey Expansion water could also provide drought-resilience to the Monterey Peninsula.

## Exhibit 3



Exhibit 3

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**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**

Application of California-American Water Company (U210W) to Obtain Approval of the Amended and Restated Water Purchase Agreement for the Pure Water Monterey Groundwater Replenishment Project, Update Supply and Demand Estimates for the Monterey Peninsula Water Supply Project, and Cost Recovery.

Application 21-11-024  
(Filed November 29, 2021)

**PHASE 2 DIRECT TESTIMONY OF PAUL FINDLEY**

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Attorneys for California-American Water Company

Dated: July 20, 2022

### Exhibit 3

1 Q7. How do permits limit ASR diversions?

2 A7. The diversion of excess Carmel River water for injection the ASR system is limited by  
3 two SWRCB permits, and both permits have minimum stream flow conditions that must  
4 be met. When these minimum stream flow conditions are met, then the permits would  
5 theoretically allow diversion of up to 14.7 cubic feet per second (CFS), which is 29.2  
6 Acre-feet per day (AFD). However, it is not physically possible to inject this amount of  
7 water in the ASR wells due to capacity limitations of the system.

8  
9 Q8. What is the maximum ASR injection rate?

10 A8. The only way that Carmel River water can be delivered to the ASR wells is via the Crest  
11 Pipeline, and due to capacity limitations of that pipeline, the maximum ASR injection  
12 rate is 8.6 CFS (17 AFD). However, when diversion is only permitted under Permit  
13 20808A, but stream flows are below the minimums of Permit 20808C; or, when the  
14 Upper Carmel Valley wells are not in operation, then the maximum injection rate is 6.7  
15 CFS (13.3 AFD).

16  
17 Q9. How did you simulate future ASR operation?

18 A9. I obtained daily Carmel River flow records for the last 59 years (1963 to 2021). I then  
19 prepared a hypothetical simulation in which I looked at the river flow for each day and  
20 determined if ASR diversion would have been permitted under present day permit rules.  
21 If that day qualified as an injection day, I then determined if ASR injection would have  
22 been 13.3 AFD or 17 AFD for that day. I then compiled and analyzed the results for each  
23 year.

24  
25 Q10. What were the results of this simulation?

26 A10. Over the last 59 years, the number of days that would have qualified for injection  
27 averaged 79 days per year but ranged from zero (seven of the 59 years) to 181 days  
28

### Exhibit 3

1 (once, in 1983). Simulated ASR injection averaged 1,210 AFY but ranged from zero  
2 (seven of the 59 years) to 2,840 AF (in 1983).

3  
4 Q11. Did you discover any trends?

5 A11. Yes. I noticed a definite downward trend in average river flow in the last 30 years.  
6 Average Carmel River flow during the time period 1992-2001 was 256 CFS, and fell to  
7 198 CFS during 2002-2011, and then fell again to 143 CFS during 2012-2021. As a  
8 result, simulated ASR diversion averages fell from 1,445 AFY for 1992-2001 to 868  
9 AFY for 2012-2021.

10  
11 Q12. What did you conclude regarding ASR injection as a reliable source of supply?

12 A12. Based on the past 59 years of record, I concluded that the chances that ASR injection will  
13 be zero in any given year in the future is approximately 12 percent. I also looked at five-  
14 year averages, and concluded that for any five-year period in the future, CAW can expect  
15 that the five-year ASR injection average will exceed 240 AFY with 95 percent reliability,  
16 and 470 AFY with 90 percent reliability.

17  
18 Q13. Can ASR injection fill the anticipated gap between demand and firm supply?

19 A13. In my opinion, not with any reasonable degree of reliability. During the time period  
20 2026-2030, the projected average demand is 11,300 AFY, which is 1,300 AFY more than  
21 the firm supply of 10,000 AFY. Based on the five-year averages from the simulation, the  
22 probability of attaining a five-year average of 1,300 AFY from ASR injection is 39  
23 percent.

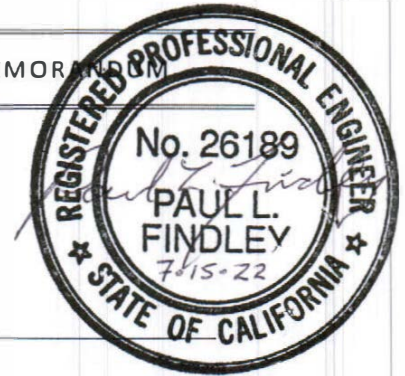
24  
25 Q14. Does this conclude your testimony?

26 A14. Yes.  
27  
28

# Exhibit 3

## ASR AVAILABILITY AND RELIABILITY ANALYSIS TECHNICAL MEMORANDUM

To: Ian Crooks  
From: Paul Findley, Sarp Sekeroglu  
Subject: ASR Reliability Analysis  
Date: July 15, 2022



### Background

The Aquifer Storage and Recovery (ASR) Program, operated jointly by California American Water (CAW) and the Monterey Peninsula Water Management District (MPWMD), allows for the storage of excess Carmel River water in the Seaside Groundwater Basin during wet winter and spring months for later extraction and beneficial use during dry summer and fall months. The diversion of Carmel River water for this purpose is regulated by the State Water Resources Control Board (SWRCB) such that it only can occur during a six-month (183-day) ASR injection season from December 1 to May 31, and only if minimum stream flow requirements are met.

The injection of excess Carmel River water in the ASR system is limited by two SWRCB permits. Permit 20808A provides for injection of up to 6.7 cubic feet per second (CFS) of excess Carmel River flows, which is 13.3 acre-feet per day (AFD). For higher Carmel River flows, Permit 20808C provides for the injection of an additional 8 CFS (15.9 AFD). The maximum injection allowed under these two permits is 14.7 CFS (29.2 AFD). However, it is not physically possible to inject this amount of water in the ASR wells due to capacity limitations of the system.

### ASR System Limitations

The ASR system's relevant facilities, shown in Figure 1, are the Carmel Valley Wells, the Begonia Iron Removal Plant (BIRP), the Segunda and Crest Tanks, the Crest/ASR pipelines, and the ASR wells.

Figure 1- ASR System Facilities



### Exhibit 3

#### ASR Availability and Reliability Analysis

**Table 3**  
**Simulated ASR Injection for Water Years 1963 to 2021**

Water Year	Dec-May Average River Flow (CFS)	ASR INJECTION IN ACRE-FEET				Total ASR Injection (AF)
		Permit 20808A		Permit 20808C		
		Injection Days	AF Injected at 13.3 AFD	Injection Days	Additional Injected at 3.7 AFD	
1963	247	119	1587	63	238	1825
1964	50	26	347	0	0	347
1965	133	92	1227	43	163	1389
1966	65	59	787	0	0	787
1967	341	143	1907	85	320	2227
1968	20	9	120	0	0	120
1969	617	120	1600	99	374	1974
1970	138	85	1127	43	120	1247
1971	83	74	987	66	38	1024
1972	19	11	147	0	0	147
1973	410	125	1667	102	386	2052
1974	239	149	1987	78	295	2282
1975	256	108	1440	80	302	1742
1976	0	0	0	0	0	0
1977	0	0	0	0	0	0
1978	430	146	1947	111	420	2366
1979	182	110	1467	71	268	1735
1980	394	138	1840	95	359	2199
1981	106	79	1041	29	110	1150
1982	394	164	2187	106	401	2587
1983	965	182	2419	112	423	2843
1984	157	119	1587	19	72	1658
1985	47	38	507	0	0	507
1986	300	95	1267	69	261	1528
1987	19	0	0	0	0	0
1988	0	0	0	0	0	0
1989	0	0	0	0	0	0
1990	1	0	0	0	0	0
1991	50	23	307	0	0	307
1992	96	28	373	20	76	449
1993	335	106	1413	74	230	1643
1994	23	14	187	0	0	187
1995	476	145	1933	87	329	2262
1996	197	96	1280	61	231	1511

### Exhibit 3

#### ASR Availability and Reliability Analysis

**Table 3 (Continued)**

Water Year	Dec-May Average River Flow (CFS)	ASR INJECTION IN ACRE-FEET					Total ASR Injection (AF)
		Permit 20808A		Permit 20808C			
		Injection Days	AF Injected at 13.3 AFD	Injection Days	Additional Injected at 3.7 AFD		
1997	285	107	1427	53	200	1627	
1998	674	158	2107	108	408	2515	
1999	138	114	1520	49	185	1705	
2000	202	92	1223	44	166	1390	
2001	130	79	1053	28	106	1159	
2002	77	59	761	11	42	803	
2003	147	133	1773	53	200	1974	
2004	318	52	693	11	42	735	
2005	319	145	1929	101	382	2310	
2006	318	133	1773	67	253	2027	
2007	20	15	193	0	0	193	
2008	119	64	845	24	91	936	
2009	112	52	677	33	125	802	
2010	260	140	1865	97	366	2232	
2011	292	142	1860	91	344	2205	
2012	41	16	201	0	0	201	
2013	67	48	635	13	49	684	
2014	1	0	0	0	0	0	
2015	41	19	253	0	0	253	
2016	124	79	1053	25	95	1148	
2017	558	147	1960	112	423	2383	
2018	73	20	265	0	0	265	
2019	380	131	1747	74	280	2026	
2020	111	123	1640	0	0	1640	
2021	37	6	80	0	0	80	
<b>Average</b>	<b>197</b>	<b>79</b>	<b>1054</b>	<b>42</b>	<b>155</b>	<b>1210</b>	

Simulated ASR injection averaged 79 days per year and averaged 1,210 AFY over the 59-year period. However, as previously discussed, Carmel River flows are trending downwards, and this has a significant effect on simulated ASR injection, as shown by the downward long-term trendlines in Figures 3 and 4. This trend for 10-year averages in recent years is shown in **Table 4**. The 10-year average for simulated ASR injection declined 45 percent from a high of 1,624 AFY for the period of 1997-2006 to 868 AFY for the period of 2012-2021

## Exhibit 4

**SEASIDE BASIN  
WATERMASTER  
ANNUAL REPORT – 2023**

**January 3, 2024**



## NOTICE TO ALL SEASIDE GROUNDWATER PRODUCERS

Pursuant to Section III.3.L.3.j.xix of the Amended Decision Filed February 2, 2007 in the Superior Court of the State of California, in and for the County of Monterey, Case No. M66343 (the “Decision”), the Seaside Basin Watermaster hereby Declares that the Total Usable Storage Space in the Seaside Groundwater Basin (“Basin”) is as follows:

Total Usable Storage Space in the Coastal and Northern Inland Subareas is 75,610 acre-feet.  
 Total Usable Storage Space in the Laguna Seca Subarea is 28,560 acre-feet.  
 Total Usable Storage Space in the entire Seaside Groundwater Basin is 104,170 acre-feet.

Pursuant to Section III.B.3.b of the Decision, Alternative Producers do not receive a storage allocation, only Standard Producers receive such an allocation. Pursuant to Section III.H.2 of the Decision, the Seaside Basin Watermaster further Declares that the Total Usable Storage Space in the Basin shall be allocated to the Standard Producers, who are identified in the Decision, as follows:

Producer	Current Allocation (Using Table 1 of the Decision)		
	Operating Yield Allocation Percentage (1)	Usable Storage Allocation Percentage (2)	Useable Storage Allocation Acre-Feet
<b>Coastal and Northern Inland Subareas</b>			
California American Water (3)	77.55%	90.44%	68,382
City of Seaside (Municipal)	6.36%	7.42%	5,610
Granite Rock Company	0.60%	0.70%	529
DBO Development No. 27	1.09%	1.27%	960
Calabrese (Cypress Pacific Investors LLC)	0.15%	0.17%	129
<b>SUBAREAS TOTAL</b>	<b>85.75%</b>	<b>100.00%</b>	<b>75,610</b>
<b>Laguna Seca Subarea</b>			
California American Water (3)	45.13%	100.00%	28,560
<b>SUBAREA TOTAL</b>	<b>45.13%</b>	<b>100%</b>	<b>28,560</b>
<b>BASIN TOTAL</b>		<b>100%</b>	<b>104,170</b>

Footnotes:

- (1) From Table 1 on page 19 of the Decision.
- (2) Calculated as each Standard Producer’s percentage of the total Standard Producers’ operating yield allocation percentages within each subarea.
- (3) CAW’s Usable Storage Allocation is subject to the provisions and requirements of Section III.H.3 of the Decision.

Pursuant to Section III.H.6 of the Decision, no Producer may store water in the Basin without first executing with the Watermaster a Storage and Recovery Agreement.

Nov 2, 2019

## RULE 142 - WATER EFFICIENCY STANDARDS

### A. Water Efficiency Standards.

1. All New Construction of New Structures shall install and maintain plumbing fixtures and conservation standards as set forth in this Rule.
2. No plumbing fixture shall be replaced with fixtures which allow greater water use.
3. All new and replacement water fixtures shall comply with then-current California plumbing and energy standards/codes when more restrictive than the District's.

### B. Former Rules. Water Permit requirements change periodically to reflect current efficiencies. Sites with uncompleted Water Permits that have not received a final inspection shall at a minimum comply with the requirements in place at the time the Water Permit was issued unless required to install more efficient fixtures as a result of a subsequent triggering event (e.g. new/amended Water Permit or Change of Ownership/ Use).

### C. Residential Water Efficiency Standards for New Structures.

All Residential New Structures receiving a Water Permit, shall meet or exceed the following standards:

1. High Efficiency or Ultra High Efficiency Toilets shall be installed;
2. Urinals, when installed in a Residential use, shall be designed to flush with one (1) gallon of water. After January 1, 2016, newly installed Urinals shall flush with no more than 0.125 gallon per flush;
3. Showerheads, Rain Bars, or Body Spray Nozzles must be designed and manufactured to emit a maximum of 2.0 gallons per minute of water;
4. All shower fixtures should be equipped with scald protection valves rated for 2.0 gallons per minute Showerheads;
5. High Efficiency Clothes Washer(s) and High Efficiency Dishwasher(s) shall be required when installed in a Residential use;
6. Lavatory Sink faucets shall emit a maximum of 1.2 gallons of water per minute at 60 psi;
7. Kitchen Sink, Utility Sink, and Bar Sink faucets shall emit a maximum of 1.8 gallons of water per minute at 60 psi. Faucets may have the capability to temporarily increase flow to 2.2 gallons per minute for filling pots and pans, but must default back to a maximum flow rate of 1.8 gallons per minute measured at 60 psi;

8. Instant-Access Hot Water Systems shall be installed;
9. All hot water pipes shall be insulated;
10. Sodium chloride (salt) water softeners shall be discouraged in New Construction. Alternate technologies such as potassium chloride shall be recommended. When a sodium chloride water softener is to be installed within the MPWMD, the unit shall use demand-initiated regeneration which senses when the resin must be re-charged, either electronically or with a meter that measures and calculates usage. This requirement shall be specified on the Construction Drawings;
11. Landscaping.
  - a. All New Construction shall install and maintain Landscaping that complies with the California Model Water Efficient Landscape Ordinance as revised (California Code of Regulations, Title 23, Water, Division 2, Department of Water Resources, Chapter 2.7, Model Water Efficient Landscape Ordinance) or with local or District Landscape requirements if more restrictive.
  - b. Plants shall be grouped in hydrozones.
12. Irrigation System Efficiency.
  - a. Weather-Based Irrigation System Controllers (e.g. Smart Controllers) shall be installed, used and maintained on Sites where there is an Irrigation System.
  - b. Weather-Based Irrigation System Controllers shall include functioning Soil Moisture Sensors and a Rain Sensor as components of the system.
  - c. Drip Irrigation shall be utilized for watering all non-turf irrigated plantings.
  - d. Rotating Sprinkler Nozzles shall be utilized for turf irrigation.
  - e. Overhead spray irrigation shall not be used to water non-turf Landscaping, including trees and shrubs.
  - f. Irrigation Systems shall operate with at least 75 percent efficiency for overhead spray devices and at least 81 percent efficiency for drip systems.
  - g. Rainwater collection/irrigation systems are encouraged to supplement irrigation for new Landscaping. New Structures shall be encouraged to include one or more rainwater Cisterns and a system to provide at least 75 percent of exterior irrigation during normal rainfall years. Systems must be compliant with local catchment system standards.

- h. Graywater collection/irrigation systems are encouraged to supplement irrigation for new Landscaping. Systems must be compliant with local catchment system standards, including Monterey County Department of Environmental Health.
- i. All Sites utilizing a Graywater reuse system shall install and maintain a backflow prevention device as required by any Water Distribution System Operator that supplies water to the Site.

D. Non-Residential Water Efficiency Standards for New Structures.

All Non-Residential New Structures receiving a Water Permit shall meet or exceed the following standards:

1. High Efficiency or Ultra High Efficiency Toilets shall be installed;
2. Urinals shall be Pint Urinals or Zero Water Consumption Urinals and shall be clearly specified on the final Construction Drawings. Zero Water Consumption Urinals shall be encouraged in settings where there is a regular maintenance staff;
3. Showerheads, Rain Bars, or Body Spray Nozzles must be designed and manufactured to emit a maximum of 2.0 gallons per minute of water;
4. All shower fixtures should be equipped with scald protection valves rated for 2.0 gallons per minute Showerheads;
5. Public Washbasins shall emit a maximum of 0.5 gallon of water per minute at 60 psi. Private Washbasins (e.g. hotel or motel guest rooms and hospital patient rooms) shall emit a maximum of 1.2 gallons of water per minute at 60 psi. All other sinks shall emit a maximum of 2.2 gallons of water per minute at 60 psi unless higher flow is required by Health and Safety Code;
6. Public Washbasins equipped with automatic shut off devices or sensor faucets shall operate with a maximum flow of 0.25 gallons per cycle;
7. High Efficiency Clothes Washers shall be installed when a Clothes Washer is installed in a New Structure permitted under this Regulation;
8. High Efficiency Dishwashers or High Efficiency Commercial Dishwashers shall be installed and maintained on the Site when a Dishwasher is installed in a New Structure permitted by a Water Permit;
9. Instant-Access Hot Water System(s) shall be installed for hot water access points to ensure that hot water is available within ten (10) seconds;
10. All hot water pipes shall be insulated;

11. Sodium chloride (salt) water softeners shall be discouraged in New Construction. Alternate technologies, such as potassium chloride shall be recommended. When a sodium chloride water softener is to be installed within the MPWMD, the unit shall use demand-initiated regeneration which senses when the resin must be recharged, either electronically or with a meter that measures and calculates usage. This requirement shall be specified on the Construction Drawings;
12. Water Efficient Pre-Rinse Spray Valves shall be utilized when a pre-rinse spray valve is installed;
13. There shall be no single-pass water use systems in ice machines, hydraulic equipment, refrigeration condensers, X-ray processing equipment, air compressors, vacuum pumps, etc. Air-cooled or better technology shall be installed when available;
14. Water cooled refrigeration equipment shall be prohibited when there is alternative cooling technology available at the time the Water Permit is issued;
15. Cooling Towers shall be equipped with conductivity controllers that are used to increase the number of cycles that can be achieved;
16. Boilerless steamers or connectionless steamers shall be installed in place of boiler-based steamers when a steamer is installed in New Construction;
17. Landscaping.
  - a. All New Construction shall install and maintain Landscaping that complies with the California Model Water Efficient Landscape Ordinance as revised (California Code of Regulations, Title 23, Water, Division 2, Department of Water Resources, Chapter 2.7, Model Water Efficient Landscape Ordinance) or with local or District Landscape requirements if more restrictive.
  - b. Plants shall be grouped in hydrozones.
18. Irrigation System Efficiency.
  - a. Weather-Based Irrigation System Controllers shall be installed, used and maintained on Sites where there is an Irrigation System.
  - b. Weather-Based Irrigation System Controllers shall include functioning Soil Moisture Sensors and a Rain Sensor as components of the system.
  - c. Drip Irrigation shall be utilized for watering all non-turf irrigated plantings.
  - d. Rotating Sprinkler Nozzles shall be utilized for turf irrigation.

- e. Overhead spray irrigation shall not be used to water non-turf Landscaping, including trees and shrubs.
  - f. Irrigation Systems shall operate with at least 75 percent efficiency for overhead spray devices and at least 81 percent for drip systems.
  - g. Rainwater collection/irrigation systems are encouraged to supplement irrigation for new Landscaping. New Structures shall be encouraged to include one or more rainwater Cisterns and a system to provide at least 75 percent of exterior irrigation during normal rainfall years. Systems must be compliant with local catchment system standards.
  - h. Graywater collection/irrigation systems are encouraged to supplement irrigation for new Landscaping. Systems must be compliant with local catchment system standards, including Monterey County Department of Environmental Health.
  - i. All Sites utilizing a Graywater reuse system shall install and maintain a backflow prevention device as required by any Water Distribution System Operator that supplies water to the Site.
19. The implementation of water conservation Best Management Practices shall be integrated into construction and operation of the project to the extent possible.
20. The use of Alternative Water Sources for indoor toilet flushing and other uses allowed by the Jurisdiction shall be encouraged.

E. Residential and Non-Residential Change of Ownership, Change of Use, and Expansion of Use Water Efficiency Standards

Sites that have a Change of Ownership, or receive a Water Permit for a Change of Use or Expansion of Use shall meet or exceed the following standards:

- 1. High Efficiency or Ultra High Efficiency Toilets shall be installed;
- 2. Urinals shall be at a minimum High Efficiency Urinals (when installed prior to January 1, 2016). Newly installed Urinals shall be Pint Urinals or Zero Water Consumption Urinals. Zero Water Consumption Urinals shall be encouraged in settings where there is a regular maintenance staff;
- 3. Showerhead flow rates shall meet or exceed water efficiency standards for New Structures;

4. Bathroom faucet flow rates shall meet or exceed water efficiency standards for New Structures;
5. Kitchen faucet flow rates shall meet or exceed water efficiency standards for New Structures;
6. Remodels or relocations of water fixtures or appliances that involve hot water shall be encouraged to install an Instant-Access Hot Water System and insulate all new hot water pipes;
7. Pre-rinse spray valves shall meet or exceed the District's definition for Water Efficient Pre-Rinse Spray Valves;
8. Changes of Use and Expansions of Use that require a Water Permit shall not install any single-pass water use systems in ice machines, hydraulic equipment, refrigeration condensers, X-ray processing equipment, air compressors, vacuum pumps, etc. Air-cooled or better technology shall be installed when available;
9. Changes of Use and Expansions of Use that require a Water Permit shall not install any water cooled refrigeration equipment when there is alternative water efficient cooling technology available at the time the Water Permit is issued;
10. Automatic Irrigation Systems, with the exception of Weather- Based Irrigation Systems, shall be retrofit to include a Rain Sensor;
11. The implementation of Non-Residential Best Management Practices shall be integrated into construction and operation of Non-Residential uses to the extent possible.

*Rule added by Ordinance No. 30 (7/13/87); amended by Ordinance No. 71 (12/20/1993); Ordinance No. 125 (9/18/2006); Ordinance No. 141 (11/16/2009); Ordinance No. 151 (11/19/2012); Ordinance No. 170 (5/16/2016)*

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