



Phase I Environmental Site Assessment

North Sanderson Avenue
Assessor's Parcel Numbers 432-030-006, 432-030-010, and 432-030-011
San Jacinto, California

October 25, 2021

Prepared for:

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Executive Summary

Shea Properties Management Company, Inc. (Shea, the User) retained Roux Associates, Inc. (Roux) to perform a Phase I Environmental Site Assessment (ESA) of the property located at west of North Sanderson Avenue, Assessor's Parcel Numbers (APNs) 432-030-006, 432-030-010, and 432-030-011 (the Site). Roux performed this Phase I ESA in general accordance with the American Society for Testing Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E1527-13) in an effort to identify, to the extent feasible, the presence of recognized environmental conditions (RECs) with respect to the Site as defined in ASTM E1527-13. Exceptions to, or deletions from, this practice are described in Section 8.1 of this report.

The Site consists of approximately 470 acres bound by North Sanderson Avenue to the east and is located east of Odel Avenue and south of Ramona Boulevard in a rural and agricultural area of San Jacinto, California. No addresses are currently assigned to the Site; however, 870 and 1380 North Sanderson Avenue have previously been used. Based on a review of historical sources, the Site was developed with a residential structure by 1901 with a workshop and two barns added by 1953. By 1949, the northeastern portion of the Site was developed for agricultural use, possibly row crops. Agricultural production extended to the remainder of the Site and remained until approximately 2012. Agricultural features added to the Site include water wells for domestic and irrigation use and small ponds. By 1978, 20 acres on the southeastern portion of the Site were developed with a heifer raising farm including corrals, water cisterns, and covered structures. A large pond (or water reservoir) was added to the southwestern corner of the Site by 1985. The heifer farm remained operational through at least 2006 became inactive by 2009. All the former structures, including all residential and agricultural support structures were demolished by 2012. The Site has since remained inactive and currently consists of vacant graded land with earthen roads.

On August 3, 2021, Roux visually assessed the Site during the site reconnaissance for potential RECs, including, but not limited to, potential underground storage tanks (USTs), aboveground storage tanks (ASTs), polychlorinated biphenyl (PCB)-containing equipment, hazardous materials storage or handling areas, containerized or bulk wastes, and visual indications of impacted soil.

Roux also performed a records review in an effort to identify RECs in connection with the Site. This records review addressed the Site and surrounding properties. Roux reviewed commercially available records associated with the Site and nearby properties to assess potential concerns associated with the migration of hazardous substances. The records review also included reasonably ascertainable historical data, which can be helpful in identifying the past uses of the Site and surrounding areas, as it may relate to the environmental condition of the Site.

Roux performed interviews and/or file reviews with various government agencies and other parties with possible knowledge of the Site and surrounding properties in an effort to identify current and past uses of the Site and surrounding areas, as they may relate to the environmental condition of the Site.

ASTM E 1527-13 defines a Recognized Environmental Condition (REC) as:

“The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions.”

A Controlled Recognized Environmental Condition (cREC) as:

“A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).”

And a Historical Recognized Environmental Condition (hREC) as:

“A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a *recognized* environmental condition at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition.”

The term recognized environmental condition is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

This Executive Summary provides a brief overview of the findings of this Phase I ESA. Although the Executive Summary is an integral part of a report, it does not substitute for reading the entire report or the appended or referenced documents in order to fully understand the findings and potential environmental concerns associated with the Site.

Based on the information obtained through the performance of this ESA, Roux identified the following RECs in connection with the current and historical operations at the Site or adjacent properties. To the extent possible, the locations of the RECs are shown in Figure 2. To avoid confusion, all RECs, cRECs, hRECs, and OEFs are numbered sequentially.

REC 1 – Former Heifer Farm. A southeastern portion of the Site, totaling approximately 20 acres in size, was formerly developed as a heifer raising farm from at least 1978 through 2002. The former heifer farm operations represented a REC due to the possible presence of methane from manure.

REC 2 - Petroleum-Stained Soil. During a reconnaissance of the Site conducted in 2002, petroleum-stained soil was observed beneath a diesel aboveground storage tank (AST) located northwest of the reservoir (pond), near the irrigation groundwater well located southwest of the reservoir, and on the floor of the equipment shed, beneath three oil-containing 55-gallon drums. Based on the storage of hazardous substances and petroleum products in uncovered ground areas and evidence of a release, the former chemical storage identified above represented a REC.

REC 3 - Pond. The Site is equipped with a pond located on the southwestern corner. According to aerial photographs, the pond was added between 1978 and 1985 and was likely used as part of the heifer ranch operations. According to a 2009 Environmental Impact Report (EIR), the reservoir contained reclaimed water from the neighboring San Jacinto Valley Regional Water Reclamation Facility related to irrigation for sod farming activities on-Site. It is unknown whether the pond also historically received wastewater from the on-Site ranch operations, was used for agricultural irrigation, or stored water treated with larvicide/repellant for mosquito control. The pond appeared unlined, allowing waters to infiltrate the ground and recharge the aquifer. Based on the historical agricultural use of the Site, the on-Site pond represents a REC.

REC 4 - Former Agricultural Applied Pesticide Area. Based on a review of historical sources, a portion of the Site was developed for agricultural use (row crops) as early as 1949 with increased agricultural development noted from at least 1978 to 2016. No indications of former row crops were observed on the Site. According to the EIR, a portion of the Site was developed as a sod farm from 1997 through at least 2002. Any residual pesticide, herbicide, or fertilizer residue in Site soils associated with sod farming was not identified as an environmental concern based on the removal of shallow soils during sod harvest. Agricultural production prior to 1997 at the Site is not currently known. However, it is likely that agricultural chemicals, such as pesticides, herbicides, and fertilizers, were used on-Site historically, and the potential for impacts from agricultural chemicals to on-Site soils is considered a REC.

Roux did not identify known or suspected cRECs in connection with the current and historical operations at the Site or adjacent properties.

Roux identified the following hRECs in connection with the current and historical operations at the Site or adjacent properties.

hREC 5 – Historical Underground Storage Tanks. Westra Dairy Farm, formerly located on-Site at 870 Sanderson Avenue, was identified as having a closed Leaking Underground Storage Tank (LUST) file. According to closure documents, the former on-Site dairy farm (or heifer ranch) had two 1,000-gallon gasoline USTs and one 10,000-gallon gasoline UST located south of a former workshop building in the southern portion of the Site. All three USTs were removed from the Site in December 1999 under direction of the County of Riverside. The tank area was over-excavated and approximately 120 tons of contaminated soil were removed and transported for off-Site disposal. In October 2000, a soil investigation identified total petroleum hydrocarbon (TPH) and volatile organic compounds (VOC) impacts below the former tanks to a depth of 35 feet bgs. In May 2001, a vapor extraction well was subsequently in the vicinity of the former tanks and a mobile soil vapor extraction system was used to extract and treat soil vapor. Soil samples do not appear to have been collected following the vapor extraction test. It is unknown if the SVE system operated outside of the 7-hour vapor extraction test as part of remediation for the impacted soils. A “No Further Action” letter was issued by the Santa Ana Regional Water Quality Control Board (SA-RWQCB) to the Westra Family Trust on December 26, 2001. The closure letter recommended that correction action should be reviewed if land use changes. According to the “No Further Action” letter, data from this investigation indicates that the residual petroleum hydrocarbons in soil are limited to an area with a 15-foot radius between 15 and 20 feet bgs and did not indicate a significant presence or source of petroleum hydrocarbons in the soil. Although a closure document was issued by the SA-RWQCB in 2001, the remaining petroleum hydrocarbon-impacted soil in the former LUST area is considered a hREC.

The term recognized environmental condition is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Other environmental features (OEFs) are environmental conditions that do not meet the definition of a REC, but which may warrant mention in a comprehensive Phase I ESA. Based on the subject Phase I ESA, Roux identified the following OEFs. To the extent possible, the locations of the OEFs are shown in Figure 2.

OEF 6 - Septic Systems. According to the EIR, the Site was equipped with two septic systems that historical sources suggest may have been in operation for many decades. The EIR stated the septic systems would be removed along with any residue material in accordance with Riverside County Department of Environmental Health (RCDEH) protocols. Based on the likely use of these systems for domestic waste only, the existing septic systems represent an OEF.

OEF 7 - Debris. Debris, including old equipment, water heaters, tires, and trash were observed in several piles throughout the site both in the 2002 Phase I ESA and during Site reconnaissance associated with the EIR. Several mounds of soil also were observed across the Site. According to the EIR, the soil piles were generated from on-Site activities and were piled for storage and eventual removal. The EIR recommended a qualified environmental professional be present on-Site during removal of debris piles to assess debris and stockpiled soils and direct disposal accordingly. Based on observations made during the Site reconnaissance, on-Site debris represent an OEF.

OEF 8 - Abandoned Drums. Two abandoned 55-gallon drums were observed during Roux' Site reconnaissance on August 3, 2021. The drums were observed on a concrete pad in the southeastern portion of the Site in the vicinity of the former heifer ranch area and appeared to contain unknown waste products. Minor to moderate staining was observed in the vicinity of these features. The staining was located on a paved area. It appears that the staining is surficial in nature and thus is not expected to represent a significant environmental concern.

1. Introduction

Roux Associates, Inc. (Roux) completed this Phase I Environmental Site Assessment (ESA) of the commercial property located at west of North Sanderson Avenue (the Site). The Site location is shown in Figure 1 and the Site and vicinity is shown in Figure 2. Roux performed this Phase I ESA in compliance with the scope and limitations of American Society for Testing Materials (ASTM) E1527-13 and the terms and conditions of Roux' proposal dated August 19, 2021. Roux conducted this Phase I ESA for the benefit of Shea Properties (Shea, the User).

The following sections of this report present our Phase I ESA findings and conclusions. A glossary containing terms and definitions presented in ASTM E1527-13 is included in Appendix A – Glossary of Terms. Other appendices presented at the end of the report include historical topographic maps, historical aerial photographs, regulatory records review documentation, applicable historical records, and personnel qualifications.

1.1 Purpose

The purpose of this Phase I ESA is to identify and report, to the extent feasible, recognized environmental conditions (RECs) with respect to the Site. Performing a Phase I ESA in general compliance with ASTM E 1527-13 may enable a User to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability. That is, the practice that constitutes one of the requirements for “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice” as defined in 42 USC Section 9601(35) (B).

1.2 Scope of Services

The scope of services for this Phase I ESA included, but was not limited to, the activities listed below.

- A review of reasonably ascertainable and practicably reviewable topographic maps, historical aerial photographs, and city directories, if available, to investigate past Site conditions;
- A review of specific government lists pursuant to ASTM Standard E 1527-13 regarding environmental activities for the Site and local area properties;
- A review of recorded land title records, building, assessors, and fire department records, for permits, citations, and reports connected to the Site that were reasonably ascertainable, practicably reviewable, and publicly available within reasonable time and cost;
- An inspection by an environmental professional to investigate the current use of the Site and to identify environmental concerns including but not limited to, the presence of hazardous substances or petroleum products, wastes, underground storage tanks (USTs), aboveground storage tanks (ASTs), or other environmental concerns;
- Interviews with available representatives of the owner of the Site, occupants, and local government officials by an environmental professional; and
- Preparation of this Phase I ESA report.

Roux initiated this Phase I ESA pursuant to receipt of written authorization to proceed on August 26, 2021.

1.3 Standard of Care

Roux conducted this Phase I ESA using a defined scope of services considered appropriate and agreed upon by all parties on the date the service was authorized, unless the scope of services or the methods used were later modified, in writing, and accepted by all parties prior to performance. Roux conducted this Phase I ESA in accordance with generally accepted practices in a manner consistent with that level of care exercised by other members of our profession in the same locality and under similar conditions of time and accessibility of improvements and information. No other representations, expressed or implied, and no warranty or guarantee is included or intended to be part of this Phase I ESA.

Please note that the scope of services performed in execution of this assessment may not be appropriate to satisfy the needs of other parties. We, therefore, are not responsible for independent conclusions, opinions, or recommendations of others based on our assessment. Furthermore, this Phase I ESA relates to the environmental conditions of the Site and does not address issues raised in transactions such as business risk, purchase of business entities, or interests therein, or of their assets, that may well involve environmental liabilities pertaining to properties previously owned or operated or other offsite liabilities.

Additionally, the findings of this Phase I ESA are based on Roux' observations, inquiries, and historical research using reasonably ascertainable and practically reviewable information obtained within reasonable time and cost constraints. Roux does not represent that this Phase I ESA is an exhaustive investigation that reflects the findings of all of the information available for the Site, nor is it representative of future Site conditions. If additional information is generated from the Site, it should be provided to Roux so that we may evaluate its impact on our conclusions. As such, activities or episodes that transpire subsequent to this Phase I ESA are not considered in this assessment. It is not intended that a Phase I ESA in accordance with ASTM E1527-13 be an exhaustive assessment of a property nor can it wholly eliminate uncertainty regarding the potential for *recognized environmental conditions* in connection with a property.

1.4 Assumptions

This Phase I ESA Report, including the exhibits attached hereto, describes the results of Roux' investigation to identify the presence of *recognized environmental conditions* connected with the Site in accordance with ASTM E1527-13, as allowed by and consistent with the regulatory requirements of the All Appropriate Inquiry Rule, 40 CFR Part 312, Amendment to Standards and Practices for All Appropriate Inquiries Under CERCLA, Final Rule, published December 30, 2013 (AAI Rule). Specifically, the preamble to the amended AAI Rule states:

The Environmental Protection Agency (EPA) today is taking final action to amend the standards and practices for conducting all appropriate inquiries under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) to reference a standard practice recently made available by ASTM International, a widely recognized standards development organization. Specifically, this final rule amends the "All Appropriate Inquiries Rule" at 40 CFR Part 312 to reference ASTM International's E1527-13 "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" and make clear that persons conducting all appropriate inquiries may use the procedures included in this standard to comply with the All Appropriate Inquiries Rule¹.

¹ Federal Register: December 30, 2013 (Volume 78, Number 250) Page 79319

One of the requirements that a person acquiring real property must meet in order to qualify for either the innocent landowner, contiguous owner, or bona fide prospective purchaser (collectively hereinafter "Prospective Purchaser") defense to liability under the federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986, and the Small Business Liability Relief and Brownfields' Revitalization Act of 2002, 42 U.S.C. 9601-9675 (collectively referred to hereafter as "CERCLA") is that person must conduct all appropriate inquiries into the previous ownership and uses of the property in conformance with the AAI Rule (or the ASTM E1527-13) prior to acquisition of the property. The User has acknowledged that, under the AAI Rule, Roux' performance of this Phase I ESA in accordance with ASTM E1527-13 will not alone result in the User satisfying all requirements of the AAI Rule and will not in itself provide a defense to CERCLA liability. The User has acknowledged that the AAI Rule also requires that the Prospective Purchaser undertake certain additional inquiries and post-acquisition activities to satisfy the CERCLA AAI requirements. Accordingly, Roux makes no guarantees or warranties, expressed or implied, regarding this Phase I ESA, including without limitation, that this Phase I ESA will qualify the User for a defense to CERCLA liability.

Roux has performed this Phase I ESA in a professional manner using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. Professional judgments expressed herein are based on the facts currently available to Roux.

The AAI Rule requires, and the conclusions and recommendations stated herein represent, the application of a variety of engineering and technical disciplines to material facts and conditions associated with the Site. As such, these conclusions and recommendations are based on subjective interpretations and the exercise of discretion based on the facts available to Roux and conditions at the time of the performance of this Phase I ESA. Many of these facts and conditions are subject to change over time. Accordingly, the conclusions and recommendations must be considered within this context.

The User has agreed that Roux shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time this Phase I ESA was performed. To the extent practicable, Roux has identified data gaps, and has evaluated the potential significance of such data gaps. Recommendations to address those data gaps are presented herein and are based on the data available at the time of the performance of this Phase I ESA. Implementation of the recommendations may not fully address the data gaps, and the information obtained from execution of those recommendations may alter and/or modify the interpretation of the Site conditions and conclusions, herein. This Phase I ESA does not include consideration of matters specifically excluded by ASTM E1527-13, including but not limited to, asbestos-containing building materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, and mold unless specifically identified herein.

Roux has not collected any soil and/or groundwater samples on the Site for Phase I purposes, and is relying on information presented by others, often in preliminary, draft, or verbal form. By referencing this information, Roux does not accept responsibility for the accuracy of the underlying data, sampling methods, laboratory analysis, or documentation.

This Phase I ESA Report should not be considered a legal interpretation of existing environmental laws and regulations. This Phase I ESA was conducted with a reasonable degree of inquiry to identify *recognized environmental conditions*, but uncertainty is not eliminated. No Phase I ESA can wholly eliminate uncertainty regarding the potential for *recognized environmental conditions* in connection with a property.

The Phase I ESA process is intended to reduce, but not eliminate, the uncertainty involved with identifying *recognized environmental conditions*.

This Phase I ESA Report is not an appraisal or value judgment of the Site. The User has agreed that Roux shall not be liable for any use of this Phase I ESA Report as an appraisal or value judgment of the Site.

This Phase I ESA Report has been prepared for the exclusive use of the User for specific application to the Site covered by this Phase I ESA Report. The User has agreed that any third-party use of this Phase I ESA Report, upon disclosure by the User, is the sole responsibility and at the sole liability of the User.

1.5 User Reliance

No additional parties may use the information contained in this report without obtaining the written permission of Roux or the User. Roux' duties and obligations extend to the User and to no other party. Roux' duties and obligations to the User are not transferable to persons, corporations, or organizations without the express written consent of the User and Roux. The User may rely upon the information provided in this Phase I ESA report for a period of 180 days from the date of issue. After 180 days, this Phase I ESA should be updated in accordance with ASTM guidance. Roux will not be liable for any consequential damages arising from the use of this report for other than its intended purpose, for use of this report beyond 180 days of its issue date, or from unauthorized use by third parties.

This Phase I ESA report must be read and interpreted as a whole and can only be considered representative of the conditions of the Site as of the date of our site reconnaissance described herein. Roux makes no representation whatsoever concerning the condition of the Site beyond the date of our site reconnaissance described herein. Individual sections and appendices of this report are dependent on the balance of this report, and on the terms, conditions, and stipulations contained in the proposal and written amendments accepted by Roux.

2. Site Description

2.1 Site Location and Description

Site Information	
Site Name	Shea San Jacinto
Street Address(es)	No current address; Historically used 870 and 1380 North Sanderson Avenue
City	City of San Jacinto
County	Riverside
State	California
Location	West of North Sanderson Avenue, east of Odel Avenue and south of Ramona Boulevard
Assessor's Parcel Number (APN)	432-030-006, 432-030-010, and 432-030-011
Site Acreage (per Riverside County Assessor Website)	Approximately 470 acres
Site Occupant(s)	None; currently unoccupied
Onsite Operations	None; formerly operated as sod farm and heifer raising farm
Description of Onsite Structures	None; Site consists of vacant land and is equipped with remnant cisterns, concrete building foundations, and a pond (water reservoir)
Site Paving	Unpaved vacant graded land with areas overgrown with weeds and native desert brush
Site Grading	Graded to drain at a gentle slope roughly oriented to the north
Site Vicinity	Rural and agricultural

Refer to Section 5.0 for a detailed description of the current condition of the Site and operations.

2.2 Vicinity General Characteristics

The facilities and improvements which are located immediately adjacent to the Site are provided in the following table.

Direction from Site	Improvements / Use (Addresses)
North	Records Road and vacant and/or agricultural land
East	North Sanderson Avenue, followed by vacant and/or agricultural land and California Equine Retirement Foundation (805 North Sanderson Avenue)
South	San Jacinto Valley Regional Water Reclamation Facility (770 North Sanderson Avenue)
Southwest	Residence and vacant and/or agricultural land
West	Demler Farms (1455 North Warren Road)

2.3 Past Use of the Site

Based on a review of historical sources, the Site was developed with a residential structure by 1901 with a workshop and two barns added by 1953. By 1949, the northeastern portion of the Site was developed for agricultural use, possibly row crops. Agricultural production extended to the remainder of the Site and remained until approximately 2012. Agricultural features added to the Site include water wells for domestic and irrigation use and small ponds. By 1978, 20 acres on the southeastern portion of the Site were developed with a heifer raising farm including corrals, water cisterns, and covered structures. A large pond (or water reservoir) was added to the southwestern corner of the Site by 1985. The heifer farm remained operational through at least 2006 became inactive by 2009. All the former structures, including all residential and agricultural support structures were demolished by 2012. The Site has since remained inactive and currently consists of vacant graded land with earthen roads.

2.4 Physical Setting

Roux obtained and reviewed published, reasonably ascertainable information concerning the physical setting of the Site. The following is a summary of the information reviewed from those physical setting sources.

Physical Setting Summary	
United States Geological Survey (USGS) Topographic Map	Lakeview, California Quadrangle
Approximate Site Elevation / Source	1460 to 1490 feet above mean sea level (msl) / Lakeview, California (2012) 7.5-minute quadrangle topographic map published by the USGS
Nearest Surface Water Features / Approximate Distance	San Jacinto Reservoir, an unlined stormwater drainage pond / 0.3 mile east of the Site
Regional Geology / Source	Quaternary deposits: alluvium, lake, playa and terrace, consolidated and semi-consolidated / California Department of Conservation, 2010 Geologic Map of California
Site Topography / Source	Generally flat with a gradual slope to the east-northeast / Site observation and USGS topographic map
Hydrogeological Region / Source	Located along the eastern portion of the San Jacinto Groundwater Basin / <i>California Department of Water Resources Bulletin 118, Update 2003 and Interim Update 2016</i>
Depth to Groundwater / Source	Greater than 70 feet bgs / Previous Site investigation (ATC, 2000) 11 to 13 feet bgs (perched) / Monitoring well installation report for a facility approximately 0.6 mile northeast of the Site (Leighton, 2009)
Groundwater Gradient Direction / Source	Northeast / Groundwater monitoring data for a facility approximately 0.6 mile northeast of the Site (Leighton, 2009)
Onsite Soil	Unconsolidated sands and gravel from the surface to 70 feet bgs (ATC, 2000)

3. Sources of Information

Sources of information utilized in preparing this Phase I ESA report included historical topographic maps; historical aerial photographs; a walkover survey of the Site and adjoining properties; in-person discussions with User and tenant personnel; a review of records available at selected local and state regulatory agencies; a review of databases maintained by local, state, and federal government agencies; and other records available from commercial and online sources.

3.1 Historical Sources

To help understand the history of the Site and past land uses, historical sources were obtained from Environmental Data Resources, Inc. (EDR), of Shelton, Connecticut. The sources and locations within the Appendices are provided in the table below.

EDR Historical Sources		
Historical Range	Source	Appendix
1901 - 2012	U.S. Geological Survey Topographic Maps	B
1938 - 2016	EDR Aerial Photographs "Decade Package"	C
No Available Coverage	EDR "Certified Sanborn® Map Report"	D
1971 - 2017	EDR "City Directory Image Report"	E

3.2 Site Reconnaissance

On August 3, 2021, Roux personnel conducted a reconnaissance of the Site and surrounding areas. Roux visually and/or physically observed adjoining properties from reasonably accessible locations on the Site and public thoroughfares. Photographs documenting Roux' Site Reconnaissance are provided in Appendix G.

3.3 Regulatory Agencies

Roux contacted governmental agencies for reasonably ascertainable information concerning environmental conditions at the Site. Roux contacted or reviewed information from the agencies provided in the following table. Refer to Appendix G – Pertinent Historical Documentation for copies of the records reviewed. A summary of the information gathered from the regulatory agencies is provided in the table and details regarding the records were incorporated into applicable sections as noted.

Agency	Date Requested / Accessed	Response Date	Description of Records	Section Discussed
Federal				
U.S. Environmental Protection Agency (EPA) – FOIAonline	07/29/2021	08/02/2021	No records were associated with the Site	N/A
U.S EPA MyProperty Database	07/29/2021	N/A	No records were associated with the Site.	N/A
National Pipeline Mapping System (NPMS) Online Database	07/29/2021	N/A	No records were associated with the Site.	N/A
State				
State Water Resources Control Board (SWRCB): GeoTracker Online Database	07/29/2021	N/A	A LUST case at Westra Dairy Farm in 2001 was associated with 870 N Sanderson Avenue.	6.0
SWRCB: Storm Water Multiple Application and Report Tracking System (SMARTS) Online Database	07/29/2021	N/A	No records were associated with the Site.	N/A
Department of Toxic Substances Control (DTSC)	07/29/2021	07/30/2021	No additional records were identified through this request – the DTSC referred to available documents on EnviroStor and the HWTS database	N/A
DTSC: EnviroStor Online Database	07/29/2021	N/A	A listing for the proposed high school as associated with the Site. Representatives from the DTSC Cypress office informed Roux any records for the proposed high school not available online are no longer on file and have likely been purged.	8.1
DTSC: Hazardous Waste Tracking System (HWTS) Online Database	07/29/2021	N/A	One disposal record associated with the Western Family Trust is associated with 870 N Sanderson Avenue. This listing appears to be associated with removal of former underground tanks at the Site.	6.0

Agency	Date Requested / Accessed	Response Date	Description of Records	Section Discussed
California Air Resources Board (CARB)	07/29/2021	08/02/2021	No records were associated with the Site.	N/A
California Office of Environmental Health Hazard Assessment (OEHHA)	07/29/2021	N/A	No response has been received as of this report date.	N/A
California EPA (CalEPA)	07/29/2021	N/A	No response has been received as of this report date.	N/A
CalEPA CalRecycle	07/29/2021	08/03/2021	No records were associated with the Site.	N/A
CalEPA CalRecycle Solid Waste Information System (SWIS) Online Database	07/29/2021	N/A	No records were associated with the Site.	N/A
California Geological Energy Management (CalGEM) Online Database	07/29/2021	N/A	No records were associated with the Site or vicinity.	N/A
County / Regional				
Santa Ana Regional Water Quality Control Board (SARWQCB)	07/29/2021	08/23/2021	Records provided by the SARWQCB for the Site are discussed below in Section 6.0.	6.0
South Coast Air Quality Management District (SCAQMD)	07/29/2021	7/30/2021	No records were associated with the Site.	N/A
SCAQMD Facility Information Detail (FIND) Online Database	07/29/2021	N/A	No records were associated with the Site.	N/A
County of Riverside Department of Environmental Health	07/29/2021	7/30/2021	No records were associated with the Site.	N/A
County of Riverside Department of Buildings and Safety	07/29/2021	08/04/2021	Records provided include permits for installation of electrical lines to barn, well, pumps dated between 1982 and 1991.	N/A
County of Riverside Fire Department	07/29/2021	N/A	No response has been received as of this report date.	N/A
City / Local				
City of San Jacinto City Clerk	07/29/2021	8/25/2021	Records have not been received as of this report date. According to the City Clerk's office, the request for records is still being processed.	N/A

3.3.1 California Department of Toxic Substances Control (DTSC)

A 61-acre portion of the Site is listed by the California DTSC as the “Proposed High School at the Villages of San Jacinto” (Global ID T60000906) at the intersection of Ramona Boulevard and Cawston Avenue. In 2008, the San Jacinto Unified School District filed for an Environmental Oversight Agreement with the DTSC for oversight of the preparation of a Preliminary Endangerment Assessment (PEA) at Site Assessor Parcel Numbers 432-030-006 and 432-030-010. Three pages of the PEA including the introduction and part of the executive summary are available on EnviroStor appended to a response to comments matrix; however, the full PEA document is not available online. According to the available PEA sections, soil samples were collected and analyzed for organochlorine pesticides and arsenic. The DTSC issued an Approval of PEA Report on September 17, 2008, and stated that neither a release of hazardous material nor the presence of a naturally occurring hazardous material posed a threat to public health or the environment. The case is currently marked as ‘No Further Action’ on EnviroStor as of September 24, 2008. According to EnviroStor records, the area assessed was limited to 61 acres that were planned for school redevelopment. Soil sampling for pesticides and metals does not appear to have been conducted on the remaining areas of the Site.

Roux contacted the DTSC Cypress office for copies of the PEA reports. Ms. Gloria Conti and Ms. Jone Barrio of the DTSC Cypress office informed Roux that no other pertinent records, including the PEA report, for the proposed high school are on file with the DTSC and have likely been purged. Ms. Jone Barrio informed Roux that a copy of an Environmental Impact Report (EIR) is available for review in the DTSC file room. Roux’ inability to obtain a copy of the previous PEA report represents a data gap. Based the limited information available online for the PEA and NFA letter issued by the DTSC, this limitation is not expected to alter the findings of this assessment

3.4 Government Databases

To document potential sources of contamination at or near the Site, a government records search was conducted by EDR. The search included local, state, and federal records for the Site and for other properties within ASTM-standard distances of the Site. The records search is summarized in Section 7.0 and a copy of “The EDR Radius Map™ Report with GeoCheck®,” dated July 30, 2021, is included in its entirety as Appendix F. As recommended by ASTM, all but a few of the databases searched were “current,” i.e., had been updated within 90 days prior to the search date.

3.5 User Provided Information

ASTM E1527-13 provides that the User perform certain tasks. The purpose of this section is to present select User-provided information that can assist in identifying possible *recognized environmental conditions* in connection with the Site. According to ASTM E1527-13, these tasks do not require the technical expertise of an environmental professional and the environmental professional generally does not perform these tasks. Roux administered a questionnaire to the User at the beginning of this Phase I ESA to assist them with these tasks. The following sections outline the parts of the questionnaire that the User completed.

3.5.1 Environmental Liens or Activity and Use Limitations

The User indicated that they have no knowledge regarding environmental liens or activity and use limitations (engineering/institutional controls) with respect to the Site.

3.5.2 Specialized Knowledge

The User did not report any specialized knowledge related to the Site.

3.5.3 Valuation Reduction for Environmental Issues

The User indicated that they have no knowledge regarding valuation reduction for environmental issues.

3.5.4 Commonly Known or Reasonably Ascertainable Information

The User did not have any knowledge regarding commonly known or reasonable ascertainable information about the Site not otherwise addressed.

3.5.5 Obvious Indicators of the Presence or Likely Presence of Contamination of the Site

The User did not have any knowledge regarding obvious indicators of the presence or likely presence of contamination of the Site not otherwise addressed.

3.6 Interviews

On August 26, 2021, Roux attempted to reach an owner of the Site, Mr. Cal Westra, via telephone. Roux was informed that the phone number for Mr. Westra had been reassigned. Based on the information obtained from previous reports and historical sources available, this limitation is not expected to significantly alter the findings of this assessment.

4. Site History

This section documents the history of the Site and describes current conditions and existing or former environmental features.

4.1 Site History

The history of the Site and, to a lesser extent, the surrounding area, including previous land use, has been compiled based on information from the exhaustive list of sources provided in Section 3.

Summary of Historical Sources				
Decade	Year	Source	Site Description	Vicinity Description
Early Residential Development				
Pre-1900	No Sources Available			
1900s	1901	Historical Topographic Map: Elsinore / San Jacinto (15-minute)	Mostly vacant land located in a rural area of San Jacinto Viejo. Southern portion of the site is developed with a road and single structure likely used as a residence or homestead.	Adjacent sites appear as vacant land. Nearby arterial roads are to the west and north. Two unnamed streams are to the north.
1910s	No Sources Available			
1920s	No Sources Available			
1930s	1938	EDR Aerial Photograph	No significant changes from prior Site history except for addition of ancillary structures to residence or homestead on the southern portion of the Site.	No significant changes from prior history.
Agricultural Development				
1940s	1943	Historical Topographic Map: Perris / Banning (15-minute)	No significant changes from prior Site history.	No significant changes from prior history.
	1949	EDR Aerial Photograph	The northeastern portion of the Site was developed for agricultural use, possibly row crops. Three additional structures were added west of the existing residence in the southern portion and one small structure of unknown use was added on the northwestern corner of the Site	Agricultural development is noted to the northeast and east of the Site.

Summary of Historical Sources				
Decade	Year	Source	Site Description	Vicinity Description
1950s	1953	EDR Aerial Photograph	Agricultural development has extended to the northern and central portions of the Site.	Increase agricultural development to the northeast and east of the Site.
		Historical Topographic Map: La Jolla (15-minute)	Three water wells, likely used for irrigation, were added to the Site.	Addition of unnamed road (later Sanderson Avenue) to the east and San Jacinto Reservoir and canal further to the southeast.
1960s	1961	EDR Aerial Photograph	Agricultural development throughout the Site increased.	No significant changes from prior history.
	1967	Historical Topographic Map: Lakeview / San Jacinto (7.5-minute)	A fourth water well and two intermittent ponds were added to the Site.	Addition of duck ponds to the northeast and east, sewage disposal ponds to the south, several wells throughout the surrounding areas, and canal and aqueduct part of the nearby San Jacinto Reservoir.
1970s	1975	EDR Aerial Photograph	The two previous ponds were no longer present. Two windmills were depicted to the west of the Site in topographic maps, although no windmills were noted within the Site boundaries during review of historical aerial photographs	Addition of water reclamation plant adjacent to the south
	1978	EDR Aerial Photograph	A heifer farm, totaling approximately 20 acres, was operating on the southeastern portion of the Site. Discernable features include multiple enclosures (or corrals), and four covered structures.	Addition of ponds or other water features to the southwest and south.
	1979	Historical Topographic Map: Lakeview / San Jacinto (7.5-minute)	No significant changes from prior Site history.	No significant changes from prior history.
1980s	1985	EDR Aerial Photograph	A presently existing water reservoir had been constructed in the southwestern corner of the Site. The remainder of the Site is developed for agricultural use including row crops or heifer farm.	Addition of dairy farms to the west.
	1989	EDR Aerial Photograph	No significant changes from prior Site history.	No significant changes from prior history.
1990s	1991	Building Permits	Site equipped with a residence, workshop, two barns, several corrals, and shade structures. The southern and central portions of the site were used for grain storage (or growth), oats, and alfalfa.	N/A

Summary of Historical Sources				
Decade	Year	Source	Site Description	Vicinity Description
	1996	EDR Aerial Photograph	No significant changes from prior Site history.	No significant changes from prior history.
2000s	2002	EDR Aerial Photograph	No significant changes from prior Site history.	No significant changes from prior history.
		Previous Reports	Site was reportedly occupied by one residential structure, two warehouses, a storage shed, two office trailers, and three groundwater wells (one domestic and two irrigation), covered areas for the cows (barn structures), and equipment storage areas	N/A
	2006	EDR Aerial Photograph	No significant changes from prior Site history.	Former ponds to the southwest have been redeveloped for agricultural use (row crops).
	2009	Previous Reports	A site visit was conducted in May 2009 as part of the EIR. The only reported structures observed on-Site were an abandoned residence and "shade structures". The heifer farm operations were reportedly no longer active as of 2009.	N/A
		EDR Aerial Photograph	Two of the previous "shade structures" remain onsite. The majority of the Site appears vacant and may have no longer been developed for agricultural use.	No significant changes from prior history.
2010s	2012	Historical Topographic Map: Lakeview / San Jacinto (7.5-minute)	No significant changes from prior Site history.	No significant changes from prior history.
		EDR Aerial Photograph	All the former structures have been demolished. Some agricultural features (light row crops) appear throughout the Site.	No significant changes from prior history.
2020s	2021	Site Reconnaissance	No significant changes from prior Site history.	No significant changes from prior history.

5. Current Site Conditions

A Roux representative, Mr. Connor Moore, conducted a reconnaissance of the Site and surrounding areas on August 3, 2021. Roux also visually and/or physically observed adjoining properties from reasonably accessible locations on the Site and public thoroughfares. During the Site reconnaissance, the weather was clear and the temperature was approximately 115° Fahrenheit. A photographic log summarizing the Site Reconnaissance is provided as Appendix G. The following sections summarize observations during the inspection.

5.1 Site Reconnaissance

The Site consists of approximately 470 acres of vacant land and is bound by North Sanderson Avenue to the east and is located east of Odel Avenue and south of Ramona Boulevard. No addresses are currently assigned to the Site; however, 870 and 1380 North Sanderson Avenue have previously been used for two of the parcels. The Site is undeveloped apart from unpaved farm roads and consists of vacant graded land. Graded areas across the Site are overgrown with weeds and native desert brush vegetation and do not appear to have been used for any purpose for many years.

Roux observed the Site from accessible road throughout the Site. Due to the size of the property and the vegetation present on site, isolated areas of the site may have not been accessible for direct observation during the Site reconnaissance.

5.2 Phase I ESA Observations

During Site reconnaissance, Roux personnel attempt to identify any environmental features that may be relevant in the context of the Phase I ESA. The features identified are summarized in the table below. Any such features are discussed in the following subsections.

Feature	Observed on the Site	Observed on an Adjacent Property
Areas of stressed vegetation		
Areas which receive flood or storm water from potentially contaminated areas		
Air Compressor Vent Discharges		
Chemical Storage and/or Use		
Drainage Swales and Culverts		
Discharge Areas		
Discolored or Spill Areas		
Drums (55 Gallons or Larger)	X	
Electrical Transformers	X	
Former Agricultural Applied Pesticide Area	X	

Feature	Observed on the Site	Observed on an Adjacent Property
Hydraulic Lifts		
Incinerators		
Landfills or Landfarms		
Loading and Unloading Areas		
Non-Contact Cooling Water Discharge		
Oil-Water Separator(s)		
Open Areas Away from Production Areas		
Process Area Sinks and Piping		
Rail Cars/Railroad Spurs		
Septic Systems Leach Fields or Seepage Pits		
Silos		
Sprayfields		
Storm Sewer and Spill Containment Collection System		
Storm Water Detention Pond	X	
Surface Impoundments and Lagoons		
Underground / Aboveground Storage Tanks and Associated Piping		
Waste Piles	X	
Wells	X	

5.2.1 Drums (55 Gallons or Larger)

Two abandoned 55-gallon drums were observed during Roux' Site reconnaissance on August 3, 2021. The drums were observed on a concrete pad in the southeastern portion of the Site in the vicinity of the former heifer ranch area and appeared to contain unknown waste products. Minor to moderate staining was observed in the vicinity of these features. The staining was located on a paved area. It appears that the staining is surficial in nature and thus is not expected to represent a significant environmental concern. As a best management practice, any abandoned drums should be removed from the Site and properly disposed.

5.2.2 Electrical Transformers

Roux personnel observed pole-mounted transformers at the Site. Staining was not observed at the base of the transformer poles. Based on the construction and appearance of the transformers, they did not appear to be wet-type, with the potential to contain PCBs. Roux does not consider the presence of these transformers to be an environmental concern.

5.2.3 Former Agricultural Applied Pesticide Area

Based on a review of historical sources, a portion of the Site was developed for agricultural use (row crops) as early as 1949 with increased agricultural development noted from at least 1978 to 2016. No indications of former row crops were observed on the Site. According to the EIR, a portion of the Site was developed as a sod farm from 1997 through at least 2002. Any residual pesticide, herbicide, or fertilizer residue in Site soils associated with sod farming was not identified as an environmental concern based on the removal of shallow soils during sod harvest. Agricultural production prior to 1997 at the Site is not currently known. However, it is likely that agricultural chemicals, such as pesticides, herbicides and fertilizers, were used on-Site historically, and the potential for impacts from agricultural chemicals to on-Site soils is considered a REC.

5.2.4 Storm Water Detention Pond

The Site is equipped with a drainage pond located on the southwestern corner. According to aerial photographs, the pond was added between 1978 and 1985 and was likely used as part of the heifer ranch operations. According to the EIR, the reservoir contained reclaimed water from the nearby San Jacinto Valley Regional Water Reclamation Facility related to irrigation for sod farming activities on-Site. It is unknown whether the pond also historically received wastewater from the on-Site ranch operations, was used for agricultural irrigation, or stored water treated with larvicide/repellent for mosquito control. The pond appeared unlined, allowing waters to infiltrate the ground and recharge the aquifer. Based on the historical agricultural use of the Site, the on-Site pond represents a REC.

5.2.5 Wells

According to topographic maps, the Site has been equipped with at least four groundwater wells located throughout the Site. During the 2002 Phase I ESA, a total of three wells, including one domestic production well and two irrigation wells, were observed on-site. Only one of the three wells noted during the 2002 Phase I ESA match a known well depicted in topographic maps. Two of the irrigation groundwater wells noted during the 2002 Phase I ESA were located during Roux' Site reconnaissance. According to the EIR, any known and discovered wells will be abandoned and decommissioned in accordance with SA-RWQCB and RCDEH protocols.

5.3 Vapor Intrusion

Roux performed a vapor migration/intrusion pathway assessment. Operation of the Site as a heifer raising farm constitutes a known source for potential vapor intrusion. No known sources for potential vapor intrusion were identified for any adjacent or nearby properties.

The former onsite operations have been identified elsewhere in this report as *recognized environmental conditions* or *other environmental features*.

6. Summary of Key Previous Investigations

The following sections provide a summary of previous environmental investigations at the Site, particularly in regard to the former gasoline and diesel USTs at the Site.

Westra Dairy Farm, located at 870 Sanderson Avenue, was identified in the GeoTracker database as having a closed Leaking Underground Storage Tank (LUST) file. According to records provided by the SA-RWQCB, the former on-Site dairy farm (or heifer ranch) had two 1,000-gallon gasoline USTs and one 10,000-gallon diesel UST. The locations of the former USTs as provided by these documents are included in Figure 2.

6.1 Site Investigation (ATC, 2000)

Under direction of the County of Riverside, two 1,000-gallon USTs and one 10,000-gallon USTs were removed from the Site in December 1999. The tank area was over-excavated and approximately 120 tons of hydrocarbon-impacted soil were removed and transported for off-Site disposal. ATC was retained to delineate the vertical and lateral extent of impacts to the soil.

In October 2000, three borings (S-1, S-2, and S-3) were drilled in the area of the former USTs to depths of 60 and 70 feet bgs. Groundwater was not encountered during this investigation. Soil samples were collected at 5-foot intervals starting at 15 feet bgs to the total depth of each boring. Soil samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (TPH-g) and diesel (TPH-d) and aromatic hydrocarbons. Selected samples collected at 15 feet from S-1 and S-3 were also analyzed for fuel oxygenates, alcohols, and semi-volatiles at the request of the SA-RWQCB.

Based on the analytical results of the soil sampling, ATC determined that the extent of the contamination was “very limited”, and the vertical extent reached below the former tanks to a depth of 35 feet.

6.2 Well Installation and Vapor Extraction Testing (Stratus, 2001)

In accordance with a workplan approved by the SA-RWQCB, Stratus installed one vapor extraction well (VE-1) to assess if any residual petroleum hydrocarbon source remained in the soil that would pose a threat to groundwater resources. VE-1 was installed to a terminal depth of 20 feet bgs and located on the northeastern corner of the former tank excavation. Soil samples were collected at 5-foot intervals and screened using a photoionization detector (PID).

Following the installation of the vapor extraction well in May 2001, a mobile soil vapor extraction (SVE) system was used to extract and treat soil vapors. A vapor extraction test was conducted for 7 hours and reportedly removed an estimated 9.55 pounds of vapor-phase hydrocarbons. Influent soil vapor samples were collected at the startup, mid-point, and end-point of the vapor extraction test and analyzed for volatile fuel hydrocarbons (VFH), benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tert-butyl ether (MTBE). Laboratory results of the end-point vapor sample identified VFH at 2,300 parts per million volume (ppmv), benzene at 17 ppmv, toluene at 57 ppmv, total xylenes at 24 ppmv, and MTBE at 270 ppmv. Soil samples do not appear to have been collected following the vapor extraction test. It is unknown if the SVE system operated outside of the 7-hour vapor extraction test as part of remediation for the impacted soils.

A “No Further Action” letter was issued by the SA-RWQCB to the Westra Family Trust on December 26, 2001. The closure letter recommended that correction action should be reviewed if land use changes. According to the “No Further Action” letter, data from this investigation indicates that the residual petroleum hydrocarbons in soil are limited to an area with a 15-foot radius between 15 and 20 feet bgs and did not

indicate a significant presence or source of petroleum hydrocarbons in the soil. At the request of the SA-RWQCB, the vapor extraction well at the Site (identified as a “study well”) was properly sealed and abandoned by April 15, 2002.

Although a closure document was issued by the SA-RWQCB in 2001, the remaining petroleum hydrocarbon-impacted soil in the former LUST area is considered a hREC.

6.3 Draft Environmental Impact Report (Dudek, 2009)

Dudek prepared an Environmental Impact Report (EIR) for the City of San Jacinto for the proposed Villages of San Jacinto redevelopment project (the Site). The Villages of San Jacinto project consisted of mixed-use redevelopment of the Site including parks, residences, and a high school. Included in the EIR is a reference to a previous Phase I ESA prepared by Gradient Engineers, dated October 10, 2002. A copy of this report was not included in the appendices provided to Roux. Roux has requested a copy of the 2002 Phase I ESA from the City of San Jacinto; however, records have not been provided as of this writing. The following on-Site environmental hazards were identified in the EIR, particularly regarding the former agricultural operations and petroleum storage.

- **Former Heifer Farm.** A southeastern portion of the Site, totaling approximately 20 acres in size, was formerly developed as a heifer raising farm from at least 1978 through 2002. The former heifer farm operations represented a REC due to the possible presence of methane from manure. According to the EIR, the Riverside County’s Methane Investigation Protocol would be followed in order to ensure that methane hazards do not exist on the 20-acre portion of the Site formerly used for heifer raising. Methane gas sampling and associated mitigation activities were reportedly planned after grading, in accordance with RCDEH protocols.
- **Petroleum-Stained Soil.** During the 2002 Phase I ESA, petroleum-stained soil was observed beneath a diesel aboveground storage tank (AST) located northwest of the reservoir (pond), near the irrigation groundwater well located southwest of the reservoir, and on the floor of the equipment shed, beneath three oil-containing 55-gallon drums. Based on the storage of hazardous substances and petroleum products in uncovered ground areas and evidence of a release, the former chemical storage identified above represented a REC. In order to evaluate and possibly mitigate environmental hazards associated with petroleum releases, the EIR recommend sampling and proper disposal of stained soils.
- **Septic Systems.** According to the EIR, the Site was equipped with two septic systems that historical sources suggest may have been in operation for many decades. The EIR stated the septic systems would be removed along with any residue material in accordance with RCDEH protocols. Based on the likely use of these systems for domestic waste only, the existing septic systems represent an OEF.
- **Debris.** Debris, including old equipment, water heaters, tires, and trash were observed in several piles throughout the site both in the 2002 Phase I ESA and during Site reconnaissance associated with the EIR. Several mounds of soil also were observed across the Site. According to the EIR, the soil piles were generated from on-Site activities and were piled for storage and eventual removal. The EIR recommended a qualified environmental professional be present on-Site during removal of debris piles to assess debris and stockpiled soils and direct disposal accordingly. All debris would be disposed of in accordance with state and local laws. Based on observations made during the Site reconnaissance, on-Site debris represent an OEF.

7. Database Records Review

7.1 Standard Environmental Record Sources

According to ASTM Standard E1527-13, the purpose of reviewing regulatory records is to obtain and review records that will help identify *recognized environmental conditions* in connection with the Site. In addition, some records to be reviewed pertain not only to the Site, but also to properties within an additional “approximate minimum search distance” in order to help assess the likelihood of problems from migrating hazardous substances or petroleum products. The basis of the “approximate minimum search distance” is the Site boundary.

Roux retained EDR of Shelton, Connecticut to provide an ASTM Radius Map Report (EDR Report) for this Site. This report is a computerized search of select state and federal environmental databases that identify various properties with a record of environmental activity. Roux reviewed the report and summarized the relevant findings in the following sections. A copy of the compiled EDR Report has been included as Appendix F. The EDR report includes a detailed description of each of the databases searched, providing a summary of the type of information provided by each. A summary of Roux’ review of the EDR Report listings is provided in Table 1.

The following section describes the findings of the database search. Roux used professional judgement in determining which EDR-listed sites to include in the narrative of this report. Facilities adjoining the Site were included due to their proximity to the Site and the potential for surface water discharges (e.g., storm water runoff, surface water effluent discharges) to enter the Site or through the migration of groundwater. Sites with listings indicative of a release (e.g., SHWS, LUST, RELEASE) are likewise discussed below. Nonadjacent facilities with database listings not necessarily indicative of a release (hazardous waste generator, FINDS, ECHO, NPDES, HAZNET, AST, or UST) will not be discussed unless considered potentially relevant in context of the Phase I ESA.

7.1.1 Site (Target Property)

Address	Owner/Operator	Database(s)
870 Sanderson Avenue	None identified	CHMIRS
	Western Family Trust	HAZNET, HWTS
	Westra Dairy Farm	RGA LUST, LUST, Cortese, CERS, FINDS
	Quality Turf	FINDS
	Proposed High School at the Villages of San Jacinto	ENVIROSTOR, SCH

According to the CHMIRS listing, Riverside County Fire Department was called to a burning operation at a dairy on January 28, 1999. Ten 55-gallon drums of waste motor oil were identified to be leaking and overturned. There was reportedly evidence that some oil had been dumped into a refuse pit and burned. No additional pertinent information such as the location of the drums or cleanup activities were provided. Roux

requested records from Riverside County Fire Department on July 29, 2021. No response has been received as of this report date.

In 1999, Western Family Trust generated 4.17 tons of off-specification, aged or surplus inorganics at the Site. This listing may be associated with removal of hazardous waste drums such as the 10 drums identified in the CHMIRS. Environmental concerns associated with former aboveground chemical storage at the Site are discussed in Section 6.0.

Westra Dairy Farm was identified as a closed Leaking Underground Storage Tank (LUST) facility. According to the listings, a release of gasoline to soil was remediated under oversight of the Santa Ana Regional Water Quality Control Board. The closed LUST case is further discussed above in Section 6.0.

According to client-provided information, a portion of the Site was formerly proposed to be redeveloped with a school campus. The proposed school facility, located at Ramona Boulevard and Cawston Avenue, was identified as a school investigation EnviroStor listing. The closed EnviroStor case is further discussed above in Section 8.1.

7.1.2 Adjoining and Nearby Properties

Discussions of adjoining and nearby properties of potential environmental concern as noted in Table 1 are provided below.

- **EMWD San Jacinto Valley RWRP / Hemet San Jacinto Reg Water (770 North Sanderson Avenue).** The south adjacent site, identified as a sewage treatment facility, was identified in the AST, RCRA-LQG, CERS HAZ WASTE, CERS TANKS, CHMIRS, NPDES, CIWQS, and CERS database. According to the AST listing, this facility is equipped with ASTs totaling 3,720 gallons in capacity. The quantity and contents of the tanks were not provided. The RCRA-LQG listing indicates ignitable waste, corrosive waste, and lead have been generated by the facility. This adjacent site has reportedly been issued a construction stormwater permit by the Eastern Municipal Water District. Absent any additional information, this adjacent site is not expected to represent a significant environmental concern to the Site based on the lack of a documented release.

7.1.3 Orphan Sites

The EDR Report includes a section addressing “Orphan Sites.” Orphan sites are sites, which, due to incomplete geographic location data, incomplete address information or incorrect address information, cannot be plotted correctly. The database report identified one unmapped facility.

- **Hemet/San Jacinto WWRD (770 Sanderson).** The south adjacent site was identified in the CIWQS database. This listing pertains to an inactive industrial stormwater permit issued to the facility by the Eastern Municipal Water District. Based on the lack of a documented release associated with this facility, this listing is not expected to represent a significant environmental concern.

8. Findings

Roux has performed this Phase I ESA in general compliance with the scope and limitations of ASTM Standard Practice E1527-13. Roux separated the findings of this assessment into the following four categories: *recognized environmental conditions, controlled recognized environmental conditions, historical recognized environmental conditions* and *other environmental features*.

8.1 Data Gaps

During conduct of this ESA, the following data gaps, as defined in ASTM Standard E1527-13 were identified:

- The timing of the report did not allow for all contacted agencies to respond to the records requests issued, including a request pending with the City of San Jacinto City Clerk. This data gap is not considered significant due to sufficient information available from previous environmental reports, the EDR report, and city, county, and state websites.
- Previous Site owners/operators were not available for an interview. On August 26, 2021, Roux attempted to reach an owner of the Site, Mr. Cal Westra, via telephone. Roux was informed that the phone number for Mr. Westra had been reassigned. This data gap is not considered significant due to sufficient information regarding Site history available from EDR historical documents and FOIA requests.
- Roux observed the Site from accessible road throughout the Site. Due to the size of the property and the vegetation present on site, isolated areas of the site may have not been accessible for direct observation during the Site reconnaissance.
- A portion of the Site is listed by the California DTSC as the “Proposed High School at the Villages of San Jacinto” (Global ID T60000906) at the intersection of Ramona Boulevard and Cawston Avenue. Three pages of a PEA report including the introduction and part of the executive summary are available on EnviroStor appended to a response to comments matrix; however, the full PEA document is not available online. Roux contacted the DTSC Cypress office for copies of the PEA reports. Ms. Gloria Conti and Ms. Jone Barrio of the DTSC Cypress office informed Roux that no other pertinent records for the proposed high school are on file with the DTSC and have likely been purged. Roux’ inability to obtain a copy of the previous PEA report represents a data gap. Based the limited information available online for the PEA and NFA letter issued by the DTSC, this limitation is not expected to alter the findings of this assessment.

8.2 Recognized Environmental Conditions

Based on the information obtained through the performance of this ESA, Roux identified the following RECs in connection with the current and historical operations at the Site or adjacent properties. To the extent possible, the locations of the RECs are shown in Figure 2. To avoid confusion, all RECs, cRECs, and hRECs, and OEFs are numbered sequentially.

REC 1 – Former Heifer Farm. A southeastern portion of the Site, totaling approximately 20 acres in size, was formerly developed as a heifer raising farm from at least 1978 through 2002. The former heifer farm operations represented a REC due to the possible presence of methane from manure.

REC 2 - Petroleum-Stained Soil. During a reconnaissance of the Site conducted in 2002, petroleum-stained soil was observed beneath a diesel AST located northwest of the reservoir (pond), near the irrigation groundwater well located southwest of the reservoir, and on the floor of the equipment shed, beneath three oil-containing 55-gallon drums. Based on the storage of hazardous substances and

petroleum products in uncovered ground areas and evidence of a release, the former chemical storage identified above represented a REC.

REC 3 - Pond. The Site is equipped with a pond located on the southwestern corner. According to aerial photographs, the pond was added between 1978 and 1985 and was likely used as part of the heifer ranch operations. According to a 2009 EIR, the reservoir contained reclaimed water from the neighboring San Jacinto Valley Regional Water Reclamation Facility related to irrigation for sod farming activities on-Site. It is unknown whether the pond also historically received wastewater from the on-Site ranch operations, was used for agricultural irrigation, or stored water treated with larvicide/repellant for mosquito control. The pond appeared unlined, allowing waters to infiltrate the ground and recharge the aquifer. Based on the historical agricultural use of the Site, the on-Site pond represents a REC.

REC 4 - Former Agricultural Applied Pesticide Area. Based on a review of historical sources, a portion of the Site was developed for agricultural use (row crops) as early as 1949 with increased agricultural development noted from at least 1978 to 2016. No indications of former row crops were observed on the Site. According to the EIR, a portion of the Site was developed as a sod farm from 1997 through at least 2002. Any residual pesticide, herbicide, or fertilizer residue in Site soils associated with sod farming was not identified as an environmental concern based on the removal of shallow soils during sod harvest. Agricultural production prior to 1997 at the Site is not currently known. However, it is likely that agricultural chemicals, such as pesticides, herbicides, and fertilizers, were used on-Site historically, and the potential for impacts from agricultural chemicals to on-Site soils is considered a REC.

8.3 Controlled Recognized Environmental Conditions

Roux did not identify known or suspected cRECs in connection with the current and historical operations at the Site

8.4 Historical Recognized Environmental Conditions

Roux identified the following hRECs in connection with the current and historical operations at the Site or adjacent properties. To the extent possible, the locations of the hRECs are shown in Figure 2.

hREC 5 – Historical Underground Storage Tanks. Westra Dairy Farm, formerly located on-Site at 870 Sanderson Avenue, was identified as having a closed LUST file. According to closure documents, the former on-Site dairy farm (or heifer ranch) had two 1,000-gallon gasoline USTs and one 10,000-gallon gasoline UST located south of a former workshop building in the southern portion of the Site. All three USTs were removed from the Site in December 1999 under direction of the County of Riverside. The tank area was over-excavated and approximately 120 tons of contaminated soil were removed and transported for off-Site disposal. In October 2000, a soil investigation identified TPH and VOC impacts below the former tanks to a depth of 35 feet bgs. In May 2001, a vapor extraction well was subsequently in the vicinity of the former tanks and a mobile soil vapor extraction system was used to extract and treat soil vapor. Soil samples do not appear to have been collected following the vapor extraction test. It is unknown if the SVE system operated outside of the 7-hour vapor extraction test as part of remediation for the impacted soils. A “No Further Action” letter was issued by the SA-RWQCB to the Westra Family Trust on December 26, 2001. The closure letter recommended that correction action should be reviewed if land use changes. According to the “No Further Action” letter, data from this investigation indicates that the residual petroleum hydrocarbons in soil are limited to an area with a 15-foot radius between 15

and 20 feet bgs and did not indicate a significant presence or source of petroleum hydrocarbons in the soil. Although a closure document was issued by the SA-RWQCB in 2001, the remaining petroleum hydrocarbon-impacted soil in the former LUST area is considered a hREC.

8.5 Other Environmental Features

OEFs are environmental conditions that do not meet the definition of a REC, cREC, or hREC, but which may warrant mention in a comprehensive Phase I ESA. Based on the subject Phase I ESA, Roux identified the following OEFs at or in the vicinity of the Site. To the extent possible, the locations of the OEFs are shown in Figure 2.

OEF 6 - Septic Systems. According to the EIR, the Site was equipped with two septic systems that historical sources suggest may have been in operation for many decades. The EIR stated the septic systems would be removed along with any residue material in accordance with Riverside County Department of Environmental Health (RCDEH) protocols. Based on the likely use of these systems for domestic waste only, the existing septic systems represent an OEF.

OEF 7 - Debris. Debris, including old equipment, water heaters, tires, and trash were observed in several piles throughout the site both in the 2002 Phase I ESA and during Site reconnaissance associated with the EIR. Several mounds of soil also were observed across the Site. According to the EIR, the soil piles were generated from on-Site activities and were piled for storage and eventual removal. The EIR recommended a qualified environmental professional be present on-Site during removal of debris piles to assess debris and stockpiled soils and direct disposal accordingly. Based on observations made during the Site reconnaissance, on-Site debris represent an OEF.

OEF 8 - Abandoned Drums. Two abandoned 55-gallon drums were observed during Roux' Site reconnaissance on August 3, 2021. The drums were observed on a concrete pad in the southeastern portion of the Site in the vicinity of the former heifer ranch area and appeared to contain unknown waste products. Minor to moderate staining was observed in the vicinity of these features. The staining was located on a paved area. It appears that the staining is surficial in nature and thus is not expected to represent a significant environmental concern.

9. References

American Society for Testing Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13)

EDR, *The EDR Radius Map™ Report with GeoCheck®*, July 30, 2021

EDR, *The EDR Aerial Photo Decade Package*, July 30, 2021

EDR, *EDR Historical Topo Map Report*, July 30, 2021

EDR, *Certified Sanborn Map Report*, July 30, 2021

EDR, *The EDR-City Directory Abstract*, August 3, 2021

ATC Associates Inc. (ATC), *Site Investigation, Westra Dairy, 870 Sanderson Avenue, San Jacinto, California*, October 30, 2000.

Stratus Environmental, Inc. (Stratus), *Well Investigation and Vapor Extraction Testing, Westra Dairy Farm, 870 North Sanderson Avenue, San Jacinto, California*, June 6, 2001.

Dudek, *Recirculated Draft Environmental Impact Report No.2, Villages of San Jacinto*, August 2009.

Leighton Consulting, Inc. (Leighton), *Groundwater Monitoring Well Installation Report and Results of Groundwater Monitoring, Former San Jacinto Mobil, Site No. 200824216, 2070 North Sanderson Avenue, San Jacinto, California*, August 24, 2009.

10. Signature of Environmental Professional

Roux performed this assessment in accordance with the generally accepted practices for environmental assessments at the time of implementation. Roux made a reasonable effort to ensure that the information presented in this report is materially complete and accurate.

Roux completed a Phase I ESA in general compliance with the scope and limitations of ASTM Practice E1527-13 of the vacant property located at west of North Sanderson Avenue, San Jacinto, Riverside County, California.

“We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental professional as defined in §312.10 of 40 CFR 312” and,

“We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.”

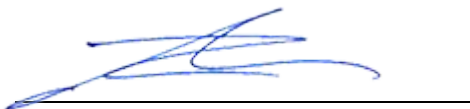
Roux performed this Phase I ESA by, or under direct supervision of, the undersigned environmental professionals.

Respectfully Submitted,

ROUX ASSOCIATES, INC.



Rocio Quinones
Project Scientist



Mauricio H. Escobar, P.G.
Principal Geologist

Phase I Environmental Site Assessment
North Sanderson Avenue, Assessor's Parcel Numbers 432-030-006, 432-030-010, and 432-030-011
San Jacinto, California

TABLES

1. Standard Environmental Record Sources (EDR Report) Summary

Table 1: Standard Environmental Record Sources (EDR Report) Summary

870 & 1380 N SANDERSON AVENUE SAN JACINTO, CA 92582

Site Name	Address	Database Listings	Distance (Miles)	Direction	Discussed in Report Text
	870 SANDERSON AVE	CHMIRS	TP	TP	Yes
WESTERN FAMILY TRUST	870 N SANDERSON	HWTS,HAZNET	TP	TP	Yes
WESTRA DAIRY FARM	870 SANDERSON	RGA LUST	TP	TP	Yes
WESTRA DAIRY FARM	870 SANDERSON	LUST,CORTESE,CERS	TP	TP	Yes
WESTRA DAIRY FARM	870 SANDERSON	FINDS	TP	TP	Yes
QUALITY TURF	870 SANDERSON AVE	FINDS	TP	TP	Yes
PROPOSED HIGH SCHOOL AT THE VILLAGES OF SAN JACINT	RAMONA BOULEVARD/CAWSTON AVENUE	ENVIROSTOR,SCH	0	0	Yes
PROPOSED HIGH SCHOOL	RAMONA BOULEVARD/CAWSTON AVENUE	CERS	0	0	Yes
SAN JACINTO VALLEY REGIONAL WATER RECLAMATION FACI	700 N SANDERSON AVE	FINDS	0	0	Yes
SAN JACINTO VALLEY REGIONAL WATER RECLAMATION FACI	700 N SANDERSON AVE	RCRA-VSQG	0	0	Yes
EMWD SAN JACINTO VALLEY RWRF	770 N SANDERSON AVE	CERS HAZ WASTE,CERS TANKS,CHMIRS,NP DES,CIWQS,CERS	0.146	SSE	Yes
HEMET SAN JACINTO REG WATER	770 N SANDERSON AVE	AST	0.146	SSE	Yes
SAN JACINTO VALLEY RWRF	770 NORTH SANDERSON	RCRA-LQG	0.146	SSE	Yes

Notes

Blue: Facility does not have associated database listings indicative of a release or contamination

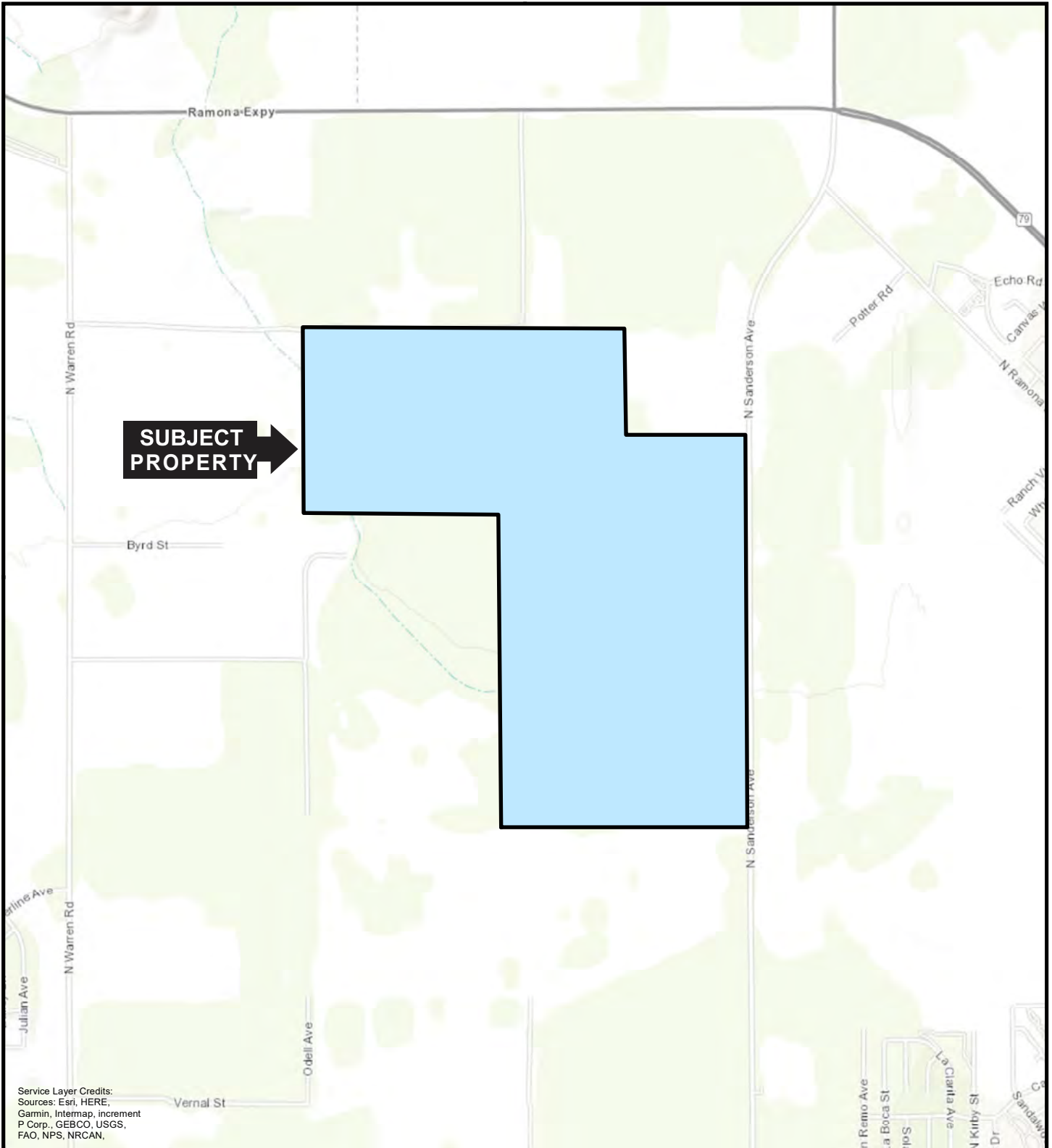
Green: Facility is hydraulically downgradient or crossgradient and/or is a closed release case

Orange: Facility has an associated release case impacting soil only and/or VOCs are not a potential contaminant of concern

Phase I Environmental Site Assessment
North Sanderson Avenue, Assessor's Parcel Numbers 432-030-006, 432-030-010, and 432-030-011
San Jacinto, California

FIGURES

1. Site Location Map
2. Site Plan
3. Site Plan: Former Operations Area



Service Layer Credits:
 Sources: Esri, HERE,
 Garmin, Intermop, increment
 P Corp., GEBCO, USGS,
 FAO, NPS, NRCAN.

S:\OFFICE ADMIN\REFERENCE LIBRARY\CM\FIGURE 1 - SAN JACINTO.MXD

QUADRANGLE LOCATION



Title:

SITE LOCATION MAP

Villages at San Jacinto
 870 & 1380 N Sanderson Avenue
 San Jacinto, Riverside County, California

Prepared for:

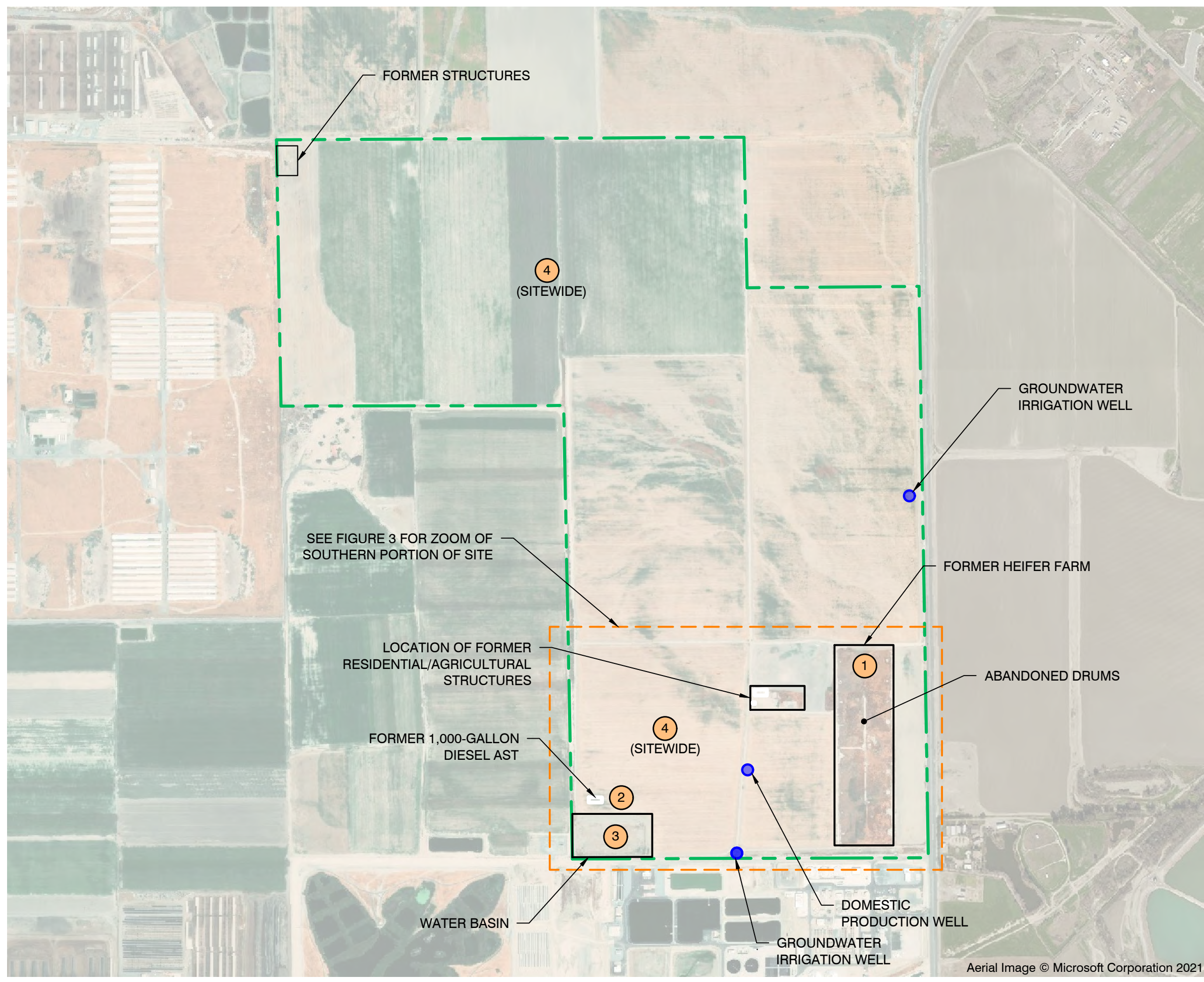
SHEA PROPERTIES LLC



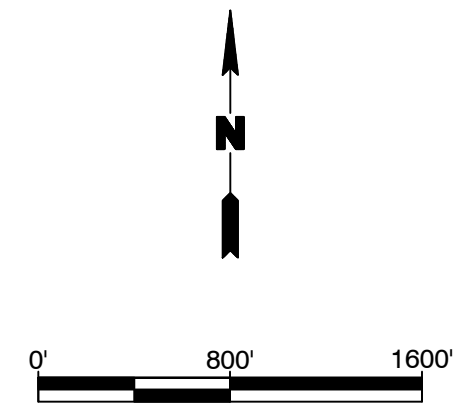
Compiled by: C.M.	Date: 08/04/21
Prepared by: C.M.	Scale: AS SHOWN
Project Mgr: R.Q.	Project:

FIGURE
1

S:\CLIENTS\2217.0025L SHEA SAN JACINTO MHE110CAD\001_2217.XXXX_SITE PLAN.DWG



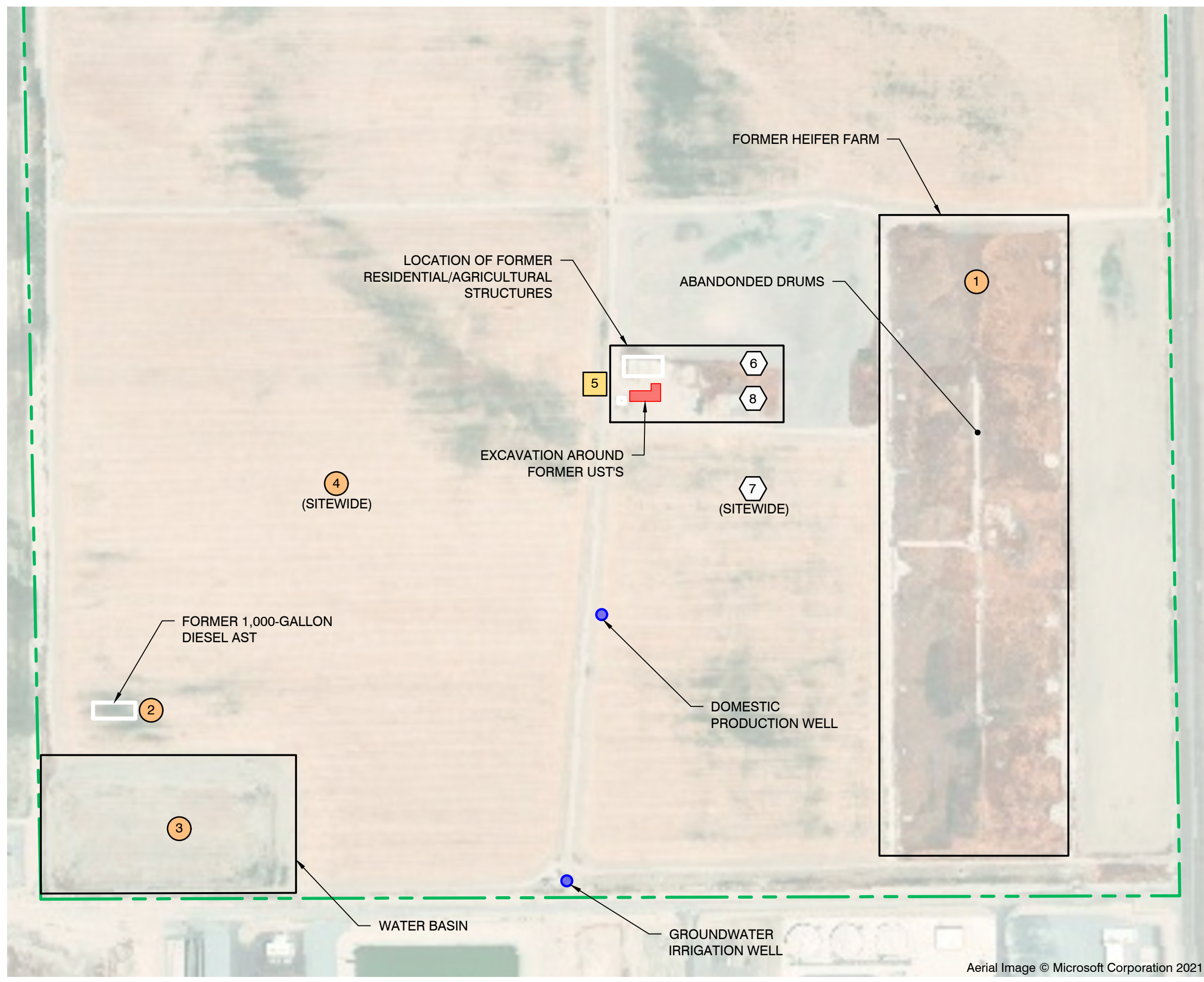
- LEGEND**
- - - APPROXIMATE SITE BOUNDARY
 - APPROXIMATE WATER WELL LOCATION
 - # RECOGNIZED ENVIRONMENTAL CONDITION (REC)



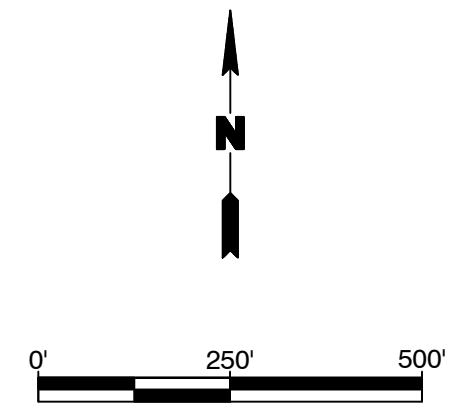
SITE PLAN									
NORTH SANDERSON AVENUE SAN JACINTO, CALIFORNIA									
Prepared for: SHEA PROPERTIES									
ROUX	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Compiled by: C.J.</td> <td>Date: 30 AUG 2021</td> </tr> <tr> <td>Prepared by: C.J.</td> <td>Scale: AS SHOWN</td> </tr> <tr> <td>Project Mgr: R.Q.</td> <td>Project: 2217.0025L</td> </tr> <tr> <td>File: 001_2217.XXXX_SITE PLAN.DWG</td> <td></td> </tr> </table>	Compiled by: C.J.	Date: 30 AUG 2021	Prepared by: C.J.	Scale: AS SHOWN	Project Mgr: R.Q.	Project: 2217.0025L	File: 001_2217.XXXX_SITE PLAN.DWG	
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Prepared by: C.J.	Scale: AS SHOWN								
Project Mgr: R.Q.	Project: 2217.0025L								
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Aerial Image © Microsoft Corporation 2021

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- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - APPROXIMATE WATER WELL LOCATION
 - 1 REC 1 - FORMER HEIFER FARM
 - 2 REC 2 - PETROLEUM-STAINED SOIL
 - 3 REC 3 - POND
 - 4 REC 4 - HISTORICAL AGRICULTURAL USE
 - 5 hREC 5 - HISTORICAL UNDERGROUND STORAGE TANKS
 - 6 OEF 6 - SEPTIC TANKS
 - 7 OEF 7 - DEBRIS
 - 8 OEF 8 - ABANDONED DRUMS



SITE PLAN		
FORMER OPERATIONS AREA		
NORTH SANDERSON AVENUE SAN JACINTO, CALIFORNIA		
Prepared for: SHEA PROPERTIES		
ROUX	Compiled by: C.J.	Date: 30 AUG 2021
	Prepared by: C.J.	Scale: AS SHOWN
	Project Mgr: R.Q.	Project: 2217.0025L
	File: 001_2217.XXXX_SITE PLAN.DWG	
		3

- A. Glossary of Terms
- B. Historical Topographic Maps
- C. Historical Aerial Photographs
- D. Certified Sanborn Report
- E. EDR City Directory Image Report
- F. EDR Radius Map Report with Geocheck®
- G. Photographic Log
- H. Pertinent Historical Documentation

Glossary of Terms

GLOSSARY OF KEY TERMS

This appendix provides definitions, description of terms, and a list of acronyms for many of the words used in ASTM E 1527-13. These terms are an integral part of ASTM E 1527-13 and are critical to understanding ASTM E 1527-13 and its use.

DEFINITIONS:

Abandoned Property – *property* that can be presumed to be deserted, or an intent to relinquish possession or control can be inferred from the general disrepair or lack of activity thereon such that a reasonable person could believe that there was an intent on the part of the current *owner* to surrender rights to the *property*.

Activity and Use Limitations – Legal or physical restrictions or limitations on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to *hazardous substances* or *petroleum products* in the soil, soil vapor, groundwater, and/or surface water on the *property*, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or *engineering controls*, are intended to prevent adverse impacts to individuals or populations that may be exposed to *hazardous substances* and *petroleum products* in the soil, soil vapor, groundwater, and/or surface water on the *property*.

Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) – The list of sites compiled by EPA that EPA has investigated, or is currently investigating, for potential hazardous substance contamination for possible inclusion on the National Priorities List.

Construction debris – Concrete, brick, asphalt, and other such building materials discarded in the construction of a building or other improvement to property.

Contaminated public wells – Public wells used for drinking water that have been designated by a government entity as contaminated by toxic substances (for example, chlorinated solvents), or as having water unsafe to drink without treatment.

Contiguous Property Owner Liability Protection – a person may qualify for the *contiguous property owner liability protection* if, among other requirements, such person owns real *property* that is contiguous to, and that is or may be contaminated by *hazardous substances* from other real *property* that is not owned by that person. Furthermore, such person conducted *all appropriate inquiries* at the time of acquisition of the *property* and did not know or have reason to know that the *property* was or could be contaminated by a *release* or threatened *release* from the contiguous *property*. The *all appropriate inquiries* must not result in knowledge of contamination. If it does, then such person did “know” or “had reason to know” of contamination and would not be eligible for the *contiguous property owner liability protection*.

Controlled Recognized Environmental Condition – a *recognized environmental condition* resulting from a past *release* of *hazardous substances* or *petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances* or *petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property* use restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*).

CORRACTS list – a list maintained by EPA of *hazardous waste* treatment, storage, or disposal facilities and other RCRA-regulated facilities (due to past interim status or storage of *hazardous waste* beyond 90 days)

that have been notified by the U.S. Environmental Protection Agency to undertake corrective action under RCRA. The *CORRACTS list* is a subset of the EPA database that manages RCRA data.

Demolition debris – Concrete, brick, asphalt, and other such building materials discarded in the demolition of a building or other improvement to property.

Drum – A container (typically, but not necessarily, holding 55 gal (208 L) of liquid) that may be used to store *hazardous substances* or *petroleum products*.

Dry wells – Underground areas where soil have been removed and replaced with pea gravel, coarse sand, or large rocks. Dry wells are used for drainage, to control storm runoff, for the collection of spilled liquids (intentional and non-intentional), and wastewater disposal (often illegal).

Dwelling – Structure of portion thereof used for residential habitation.

Engineering controls – Physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to contaminants in the soil or groundwater on the property.

Environmental lien – A charge, security, or encumbrance upon title to a *property* to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of *hazardous substances* or *petroleum products* upon a *property*, including (but not limited to) liens imposed pursuant to CERCLA 42 USC § 9607(1) and similar state or local laws.

ERNS list – EPA's emergency response notification system list of reported CERCLA hazardous substance releases or spills in quantities greater than the reportable quantity, as maintained at the National Response Center. Notification requirements for such releases or spills are codified in 40 CFR parts 302 and 355.

Federal Register (FR) – Publication of the United States government published daily (except for federal holidays and weekends) containing all proposed and final regulations and some other activities of the federal government. When regulations become final, they are included in the Code of Federal Regulations (CFR), as well as published in the Federal Register.

Fire insurance maps – Maps produced for private fire insurance map companies that indicate uses of properties at specified dates and that encompass the property. These maps are often available in local libraries, historical societies, private resellers, or from the map companies who produced them. See Question 23 of the transaction screen process in Practice E 1528 and 7.3.4.2 of this practice.

Hazardous substance – A substance defined as hazardous pursuant to CERCLA 42 USC § 9601(14), as interpreted by EPA regulations and the courts: "(A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Soil Waste Disposal Act (42 USC § 6921) (but not including any waste the regulation of which under the Solid Waste Disposal Act (42 USC § 6901 *et seq.*) has been suspended by Act of Congress), (D) any toxic pollutant listed under section 1317(a) of Title 33, (E) any hazardous air pollutant listed under section 112 of the Clean Air Act (42 USC § 7412), and (F) any imminently hazardous chemical substance or mixture with respect to which the Administrator (of EPA) has taken action pursuant to section 2606 of Title 15. The term does not include petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A)

through (F) of this paragraph; the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).”

Hazardous waste – Any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (42 USC § 6921) (but not including any waste the regulation of which under the Solid Waste Disposal Act (42 USC § 6901 *et seq.*) has been suspended by Act of Congress). The Solid Waste Disposal Act of 1980 amended RCRA. RCRA defines hazardous waste, in 42 USC § 6903, as: “a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may – (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.”

Institutional control – A legal or administrative restriction (e.g., deed restriction, restrictive zoning) on the use of, or access to, a site or facility to reduce or eliminate potential exposure to contaminants in the soil or groundwater on the property.

Landfill – A place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term *solid waste disposal site* and is also known as a garbage dump, trash dump, or similar term.

Local street directories – Directories published by private (or sometimes government) sources that show ownership, occupancy, and/or use of sites by reference to street addresses. Often, local street directories are available at libraries of local governments, colleges or universities, or historical societies.

Material safety data sheet (MSDS) – Written or printed material concerning a hazardous substance which is prepared by chemical manufacturers, importers, and employers for hazardous chemicals pursuant to OSHA’s Hazard Communication Standard, 29, CFR 1910.1200.

National Contingency Plan (NCP) – The National Oil and Hazardous Substances Pollution Contingency Plan, found at 40 CFR § 300, that is the EPA’s blueprint on how hazardous substances are to be cleaned up pursuant to CERCLA.

National Priorities List (NPL) – List compiled by the EPA, pursuant to CERCLA 42 USC § 9605(a)(8)(B), of properties with the highest priority for cleanup pursuant to EPA’s Hazard Ranking System. See 40 CFR Part 300.

Occupants – Those tenants, subtenants, or other persons or entities using the *property* or a portion of the *property*.

Owner – Generally the fee owner of record for the *property*.

Petroleum exclusion – The exclusion from CERCLA liability provided in 42 USC § 9601(14), as interpreted by the courts and EPA: “The term (hazardous substance) does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).”

Petroleum products – Those substances included within the meaning of the *petroleum exclusion* to CERCLA, 42 USC § 9601(14), as interpreted by the courts and EPA, that is: petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under Subparagraphs (A) through (F) of 42 USC § 9601(14), natural gas, natural gas liquids, liquefied natural gas, and synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). (The word fraction refers to certain distillates of crude oil, including gasoline, kerosene, diesel oil, jet fuels, and fuel oil, pursuant to *Standard Definitions of Petroleum Statistics*¹.)

Phase I Environmental Site Assessment – The process described in this practice.

Pits, ponds, or lagoons – Man-made or natural depressions in the ground surface that are likely to hold liquids or sludge containing *hazardous substances* or *petroleum products*. The likelihood of such liquids or sludge being present is determined by evidence of factors associated with the pit, pond, or lagoon, including, but not limited to, discolored water, distressed vegetation, or the presence of an obvious wastewater discharge.

Property – The real property that is the subject of the *environmental site assessment* described in this practice. Real property includes buildings and other fixtures and improvement located on the property and affixed to the land.

Property tax files – The files kept for property tax purposes by the local jurisdiction where the property is located and includes records of past ownership, appraisals, maps, sketches, photos, or other information that is reasonable ascertainable and pertaining to the property.

RCRA generators – Those persons or entities that generate hazardous waste, as defined and regulated by RCRA.

RCRA generators list – List kept by the EPA of those persons or entities that generate hazardous wastes as defined and regulated by RCRA.

RCRA TSD facilities – Those facilities at which treatment, storage, and/or disposal of hazardous wastes takes place, as defined and regulated by RCRA.

RCRA TSD facilities list – List kept by the EPA of those facilities at which treatment, storage, and/or disposal of hazardous wastes takes place, as defined and regulated by RCRA.

Recorded land title records – Records of fee ownership, leases, land contracts, easements, liens, and other encumbrances on or of the property recorded in the place where land title records are, by law or custom, recorded for the local jurisdiction in which the *property* is located. (Often such records are kept by a municipal or county recorder or clerk.) Such records may be obtained from title companies or directly from the local government agency. Information about the title to the property that is recorded in a U.S. district court or any place other than where land title records are, by law or custom, recorded for the local jurisdiction in which the property is located, are not considered part of recorded land title records.

Records of emergency release notifications (SARA § 304) – Section 304 of EPCRA or Title III of SARA requires operators of facilities to notify their local emergency planning committee (as defined in EPCRA) and the state emergency response commission (as defined in EPCRA) of any release beyond the facility's boundary of any reportable quantity of any extremely hazardous substance. Often the local fire department is the local emergency planning committee. Records of such notifications are "Records of Emergency Release Notifications" (SARA§ 304).

Report – The written record of a transaction screen process as required by Practice E 1528 or the written report prepared by the environmental professional and constituting part of a “Phase I Environmental Site Assessment,” as required by this practice.

Solid waste disposal site – A place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term *landfill* and is also known as a garbage dump, trash dump, or similar term.

Solvent – A chemical compound that is capable of dissolving another substance and may itself be a *hazardous substance*, used in a number of manufacturing/industrial processes including, but not limited to, the manufacture of paints and coatings for industrial and household purposes, equipment clean-up, and surface degreasing in metal fabricating industries.

State registered USTs – State lists of underground storage tanks required to be registered under Subtitle I, Section 9002 of RCRA.

Sump – A pit, cistern, cesspool, or similar receptacle where liquids drain, collect, or are stored.

TSD facility – Treatment, storage, or disposal facility (*see RCRA TSD facilities*).

Underground storage tank (UST) - Any tank, including underground piping connected to the tank, that is or has been used to contain *hazardous substances* or *petroleum products* and the volume of which is 10% or more beneath the surface of the ground.

USGS 7.5 Minute Topographic Map – The map (if any) available from or produced by the United States Geological Survey, entitled “USGS 7.5 Minute Topographic Map,” and showing the property.

Wastewater – Water that (1) is or has been used in an industrial or manufacturing process, (2) conveys or has conveyed sewage, or (3) is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant. Wastewater does not include water originating on or passing through or adjacent to a site, such as storm water flows, that has not been used in industrial or manufacturing processes, has not been combined with sewage, or is not directly related to manufacturing, processing, or raw materials storage areas at an industrial plant.

Zoning/land use records – Those records of the local government in which the *property* is located, indicating the uses permitted by the local government in particular zones within its jurisdiction. The records may consist of maps and/or written records. They are often located in the planning department of a municipality or county.

DEFINITIONS SPECIFIC TO ASTM E 1527-13:

Actual knowledge – The knowledge actually possessed by an individual who is a real person, rather than an entity. Actual knowledge is to be distinguished from constructive knowledge that is knowledge imputed to an individual or entity.

Adjoining properties – Any real property or properties the border of which is contiguous or partially contiguous with that of the property, or that would be contiguous or partially contiguous with that of the property but for a street, road, or other public thoroughfare separating them.

Aerial photographs – Photographs taken from an airplane or helicopter (from a low enough altitude to allow identification of development and activities) of areas encompassing the property. Aerial photographs are often available from government agencies or private collections unique to a local area.

Appropriate inquiry – That inquiry constituting “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice” as defined in CERCLA, 42 USC § 9601(35)(B), that will give a party to a *commercial real estate* transaction the *innocent landowner defense* to the CERCLA liability (42 USC § 9601(A) and (B) and § 9607(b)(3)), assuming compliance with other elements of the defense. See Appendix X1.

Approximate minimum search distance – The area for which records must be obtained and reviewed pursuant to Section 7 subject to the limitations provided in that section. This may include areas outside the *property* and shall be measured from the nearest *property* boundary. This term is used in lieu of radius to include irregularly-shaped properties.

Building department records – Those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property. Often, building department records are located in the building department of a municipality or county.

Business environmental risk – A risk which can have a material environmental or environmentally-driven financial impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of *business environmental risk* issues may necessitate that an *environmental professional* address one or more non-scope considerations, some of which are identified in Section 12.

Commercial real estate – Any real property except a dwelling or property with no more than four dwelling units exclusively for residential use (except that a dwelling or property with no more than four dwelling units exclusively for residential use is included in this term when it has a commercial function, as in the building of such dwellings for profit). This term includes, but is not limited to, undeveloped real property and real property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; property used for residential purposes that has more than four residential dwelling units; and any property with no more than four dwelling units for residential use when it has a commercial function, as in the building of such dwellings for profit.

Commercial real estate transaction – A transfer of title to or possession of real property or receipt of a security interest in real property, except that it does not include transfer of title to or possession of real property or the receipt of a security interest in real property with respect to an individual dwelling or building containing fewer than five dwelling units, nor does it include the purchase of a lot or lots to construct a dwelling for occupancy by a purchaser, but a commercial real estate transaction does include real property purchased or leased by persons or entities in the business of building or developing dwelling units.

Controlled Recognized Environmental Condition – a *recognized environmental condition* resulting from a past *release of hazardous substances or petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances or petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property use restrictions, activity and use limitations, institutional controls, or engineering controls*).

Due diligence – The process of inquiring into the environmental characteristics of a parcel of *commercial real estate* or other conditions, usually in connection with a commercial real estate transaction. The degree and kind of due diligence vary for different properties and differing purposes.

Environmental audit – The investigative process to determine if the operations of an existing facility are in compliance with applicable environmental laws and regulations. This term should not be used to describe Practice E 1528 or this practice, although an environmental audit may include an *environmental site assessment* or, if prior audits are available, may be part of an environmental site assessment.

Environmental professional – A person possessing sufficient training and experience necessary to conduct a *site reconnaissance*, *interviews*, and other activities in accordance with this practice, and from the information generated by such activities, having the ability to develop opinions and conclusions regarding *recognized environmental conditions* in connection with the *property* in question. An individual's status as an environmental professional may be limited to the type of assessment to be performed or to specific segments of the assessment for which the professional is responsible. The person may be an independent contractor or an employee of the *user*.

Environmental site assessment (ESA) – The process by which a person or entity seeks to determine if a particular parcel of real *property* (including improvements) is subject to *recognized environmental conditions*. At the option of the *user*, an environmental site assessment may include more inquiry than that constituting *appropriate inquiry* or, if the user is not concerned about qualifying for the *innocent landowner defense*, less inquiry than that constituting *appropriate inquiry*. An environmental site assessment is both different from and less rigorous than an *environmental audit*.

Fill dirt – Dirt, soil, sand, or other earth, obtained off-site, that is used to fill holes or depressions, create mounds, or otherwise artificially change the grade or elevation of real property. It does not include material that is used in limited quantities for normal landscaping activities.

Hazardous waste/contaminated sites – Sites on which a release has occurred, or is suspected to have occurred, of any *hazardous substance*, *hazardous waste*, or *petroleum products*, and that release or suspected release has been reported to a government entity.

Historical Recognized Environmental Condition – a past *release* of any *hazardous substances* or *petroleum products* that has occurred in connection with the *property* and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the *property* to any required controls (for example, *property* use restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*). Before calling the past *release* a *historical recognized environmental condition*, the *environmental professional* must determine whether the past *release* is a *recognized environmental condition* at the time the *Phase I Environmental Site Assessment* is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past *release* to be a *recognized environmental condition* at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a *recognized environmental condition*.

Innocent landowner defense – That defense to CERCLA liability provided in 42 USC § 9601(35) and § 9607(b)(3). One of the requirements to qualify for this defense is that the party make “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice.” There are additional requirements to qualify for this defense.

Interviews – Those portions of this practice that are contained in Section 9 and 10 thereof and address questions to be asked of *owners* and *occupants* of the *property* and questions to be asked of local government officials.

Key site manager – The person identified by the *owner* of a *property* as having good knowledge of the uses and physical characteristics of the property.

Local government agencies – Those agencies of municipal or county government having jurisdiction over the *property*. Municipal and county government agencies include, but are not limited to, cities, parishes, townships, and similar entities.

LUST sites – State lists of leaking underground storage tank sites. Section 9003 (h) of Subtitle I of RCRA gives EPA and states, under cooperative agreements with EPA, authority to clean up releases from UST systems or require owners and operators to do so.

Major occupants – Those tenants, subtenants, or other persons or entities each of which uses at least 40% of the leasable area of the *property* or any anchor tenant when the *property* is a shopping center.

Material threat – A physically observable or obvious threat which is reasonable likely to lead to a release that, in the opinion of the *environmental professional*, is threatening and might result in impact to human health and the environment. An example might include an aboveground storage tank that contains a hazardous substance and which shows evidence of damage. The damage would represent a material threat if it is deemed serious enough that it may cause or contribute to tank integrity failure with a release of contents to the environment.

Obvious – That which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer while *visually* or *physically observing the property*.

Other historical sources – Any source or sources other than those designated in 7.3.4.1-7.3.4.8 that are credible to a reasonable person and that identify past uses of the property. The term includes, but is not limited to, miscellaneous maps, newspaper archives, and records in the files and/or personal knowledge of the *property owner* and/or *occupants*.

Physical setting sources – sources that provide information about the geologic, hydrogeologic, hydrologic, or topographic characteristics of a *property*.

Practically reviewable – Information that is practically reviewable means that the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the *property* without the need for extraordinary analysis of irrelevant data. The form of the information shall be such that the user can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the *property* or a geographic area in which the *property* is located are not generally *practically reviewable*. Most databases of public records are *practically reviewable* if they can be obtained from the source agency by the county, city, zip code, or other geographic area of the facilities listed in the record system. Records that are sorted, filed, organized, or maintained by the source agency only chronologically are not generally practically reviewable. Listings in publicly available records which do not have adequate address information to be located geographically are not generally considered practically reviewable. For large databases with numerous facility records (such as RCRA hazardous waste generators and registered underground storage tanks), the records are not *practically reviewable* unless they can be obtained from the source agency in the smaller geographic area of zip codes. Even when information is provided by zip code for some large databases, it is common for an unmanageable number of sites to be

identified within a given zip code. In these cases, it is not necessary to review the impact of all of the sites that are likely to be listed in any given zip code because that information would not be *practically reviewable*. In other words, then so much data is generated that it cannot be feasibly reviewed for its impact on the *property*, it is not *practically reviewable*.

Preparer – The person preparing the *transaction screen questionnaire* pursuant to Practice E 1528, who may be either the user or the person to whom the user has delegated the preparation of the *transaction screen questionnaire*.

Publicly available – Information that is publicly available means that the source of the information allows access to the information by anyone upon request.

Reasonably ascertainable – For purposes of both this practice and Practice E 1528, information that is (1) *publicly available*, (2) obtainable from its source within reasonable time and cost constraints, and (3) *practically reviewable*.

Recognized Environmental Conditions – the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (1) due to release to the environment; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of a future *release* to the *environment*. *De minimis conditions* are not *recognized environmental conditions*.

Records review – That part that is contained in Section 7 of this practice addresses which records shall or may be reviewed.

Site reconnaissance – That part that is contained in Section 8 of this practice and addresses what should be done in connection with the *site visit*. The site reconnaissance includes, but is not limited to, the *site visit* done in connection with such a Phase I Environmental Site Assessment.

Site visit – The visit to the property during which observations are made constituting the *site reconnaissance* section of this practice and the *site visit* requirement of Practice E 1528.

Standard environmental record sources – Those records specified in 7.2.1.1.

Standard historical sources – Those sources of information about the history of uses of the property specified in 7.3.4.

Standard physical setting source – A current USGS 7.5-minute topographic map (if any) showing the area on which the property is located.

Standard practice(s) – The activities set forth in either and both this practice and Practice E 1528.

Standard sources – Sources of environmental, physical setting, or historical records specified in Section 7 of this practice.

Transaction screen process – The process described in Practice E 1528.

Transaction screen questionnaire – The questionnaire provided in Section 6 of Practice E 1528.

User – The party seeking to use Practice E 1528 to perform an *environmental site assessment* of the *property*. A user may include, without limitation, a purchaser of *property*, a potential tenant of *property*, an owner of *property*, a lender, or a property manager.

Visually and/or physically observed – During a *site visit* pursuant to Practice E 1528, or pursuant to this practice, this term means observations made by vision while walking through a *property* and the structures located on it and observations made by the sense of smell, particularly observations of noxious or foul odors. The term “walking through” is not meant to imply that disabled persons who cannot physically walk may not conduct a *site visit*; they may do so by the means at their disposal for moving through the *property* and the structures located on it.

ACRONYMS:

CERCLA – Comprehensive Environmental Response, Compensation and Liability Act of 1980 (as amended, 42 USC § 9601 *et seq.*)

CERCLIS – Comprehensive Environmental Response, Compensation and Liability Information System (maintained by EPA)

CFR – Code of Federal Regulations

CORRACTS – Facilities subject to corrective action under RCRA

EPA – United States Environmental Protection Agency

EPCRA – Emergency Planning and Community Right to Know Act (also known as SARA Title III), 42 USC § 11001 *et seq.*)

ERNS – Emergency response notification system

ESA – Environmental site assessment (different than an *environmental audit*)

FOIA – U.S. Freedom of Information Act (5 USC 552 *et seq.*)

FR – Federal Register

LUST – Leaking underground storage tank

MSDS – Material safety data sheet

NCP – National Contingency Plan

Historical Topographic Maps

Villages of San Jacinto
870 & 1380 N Sanderson Avenue
San Jacinto, CA 92582

Inquiry Number: 6599939.4

July 30, 2021

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

07/30/21

Site Name:

Villages of San Jacinto
870 & 1380 N Sanderson Ave
San Jacinto, CA 92582
EDR Inquiry # 6599939.4

Client Name:

Roux Associates
402 Heron Drive
Logan Township, NJ 08085-0000
Contact: Connor Moore



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Roux Associates were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	NA	Latitude:	33.813328 33° 48' 48" North
Project:	Shea Villages of San Jacinto	Longitude:	-117.020638 -117° 1' 14" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	498089.97
		UTM Y Meters:	3741458.66
		Elevation:	1460.10' above sea level

Maps Provided:

2012
1979
1967, 1972
1953
1943
1901

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Lakeview
2012
7.5-minute, 24000

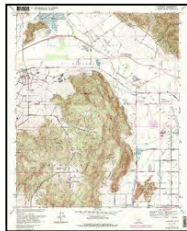


San Jacinto
2012
7.5-minute, 24000

1979 Source Sheets



San Jacinto
1979
7.5-minute, 24000
Aerial Photo Revised 1978



Lakeview
1979
7.5-minute, 24000
Aerial Photo Revised 1976

1967, 1972 Source Sheets



Lakeview
1967
7.5-minute, 24000
Aerial Photo Revised 1966



San Jacinto
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1953 Source Sheets



San Jacinto
1953
7.5-minute, 24000
Aerial Photo Revised 1949



Lakeview
1953
7.5-minute, 24000
Aerial Photo Revised 1951

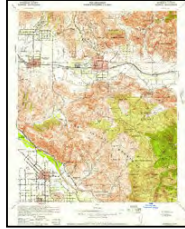
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1943 Source Sheets

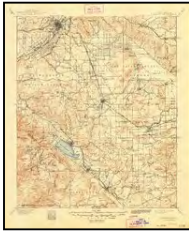


PERRIS
1943
15-minute, 62500



Banning
1943
15-minute, 62500
Aerial Photo Revised 1941

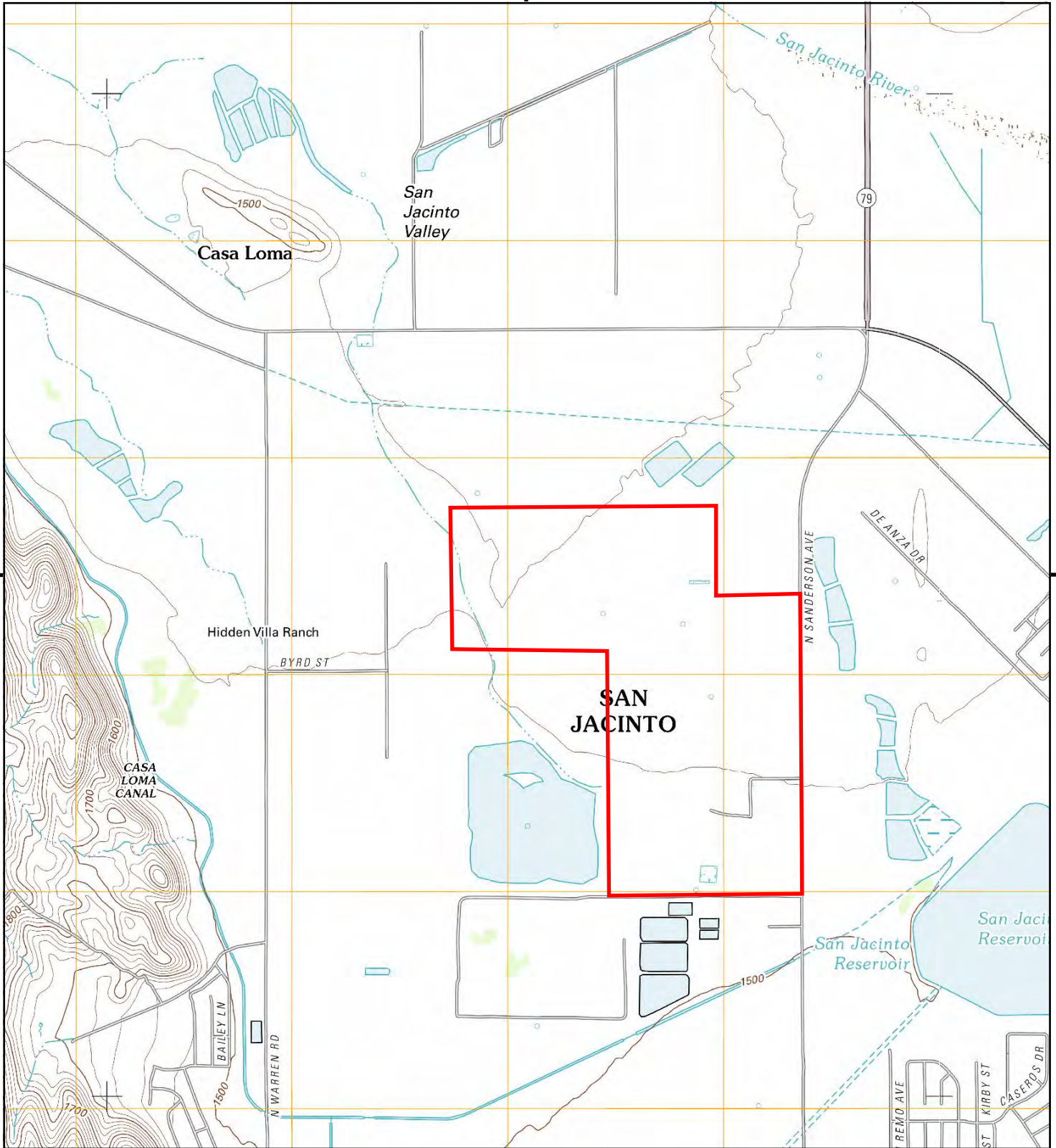
1901 Source Sheets



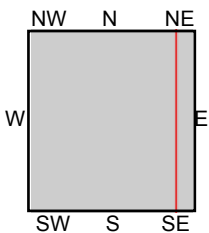
Elsinore
1901
30-minute, 125000



San Jacinto
1901
30-minute, 125000



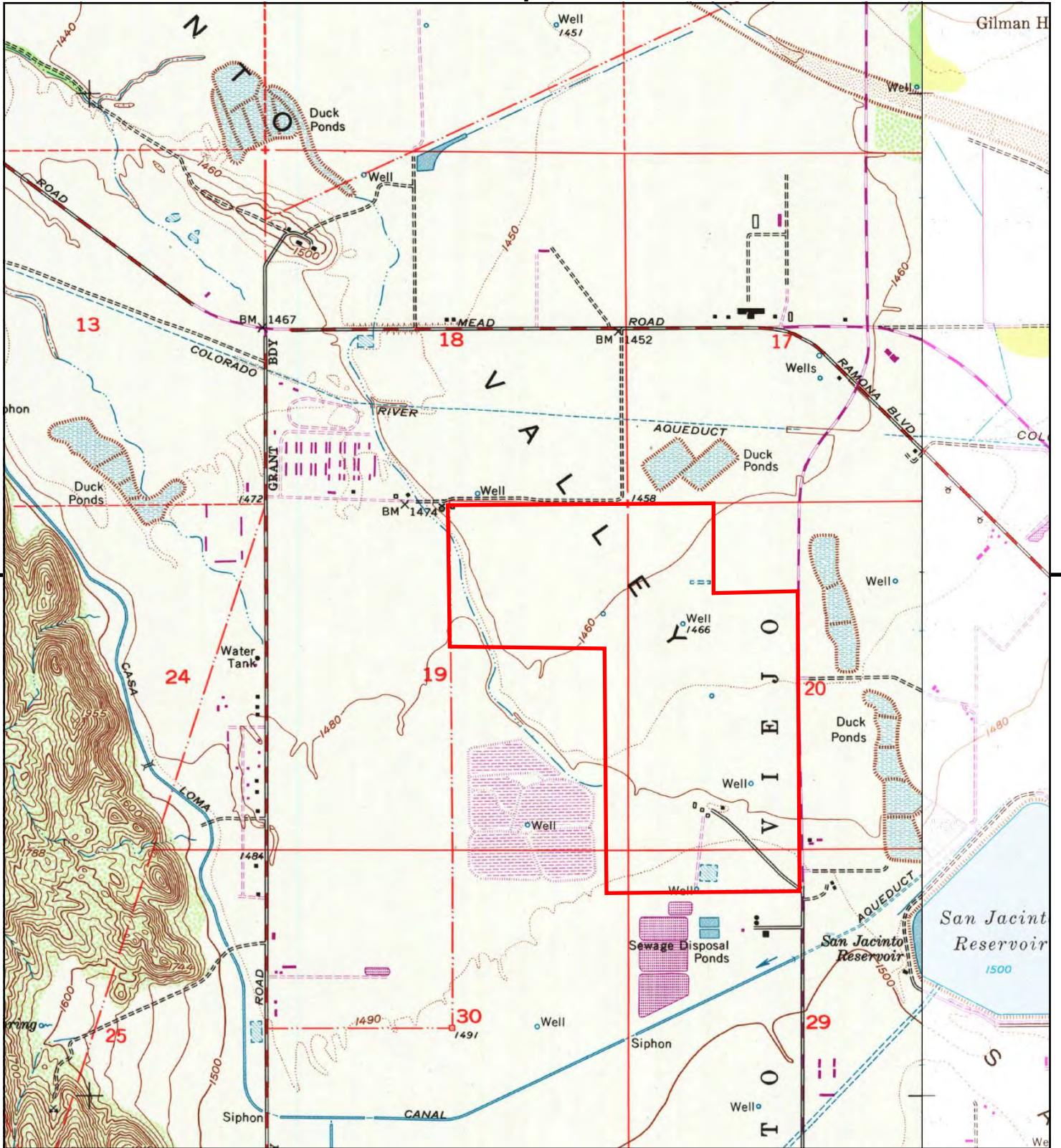
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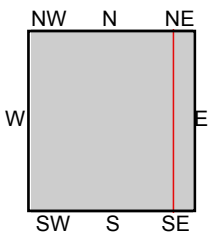
TP, Lakeview, 2012, 7.5-minute
E, San Jacinto, 2012, 7.5-minute

SITE NAME: Villages of San Jacinto
ADDRESS: 870 & 1380 N Sanderson Avenue
San Jacinto, CA 92582
CLIENT: Roux Associates





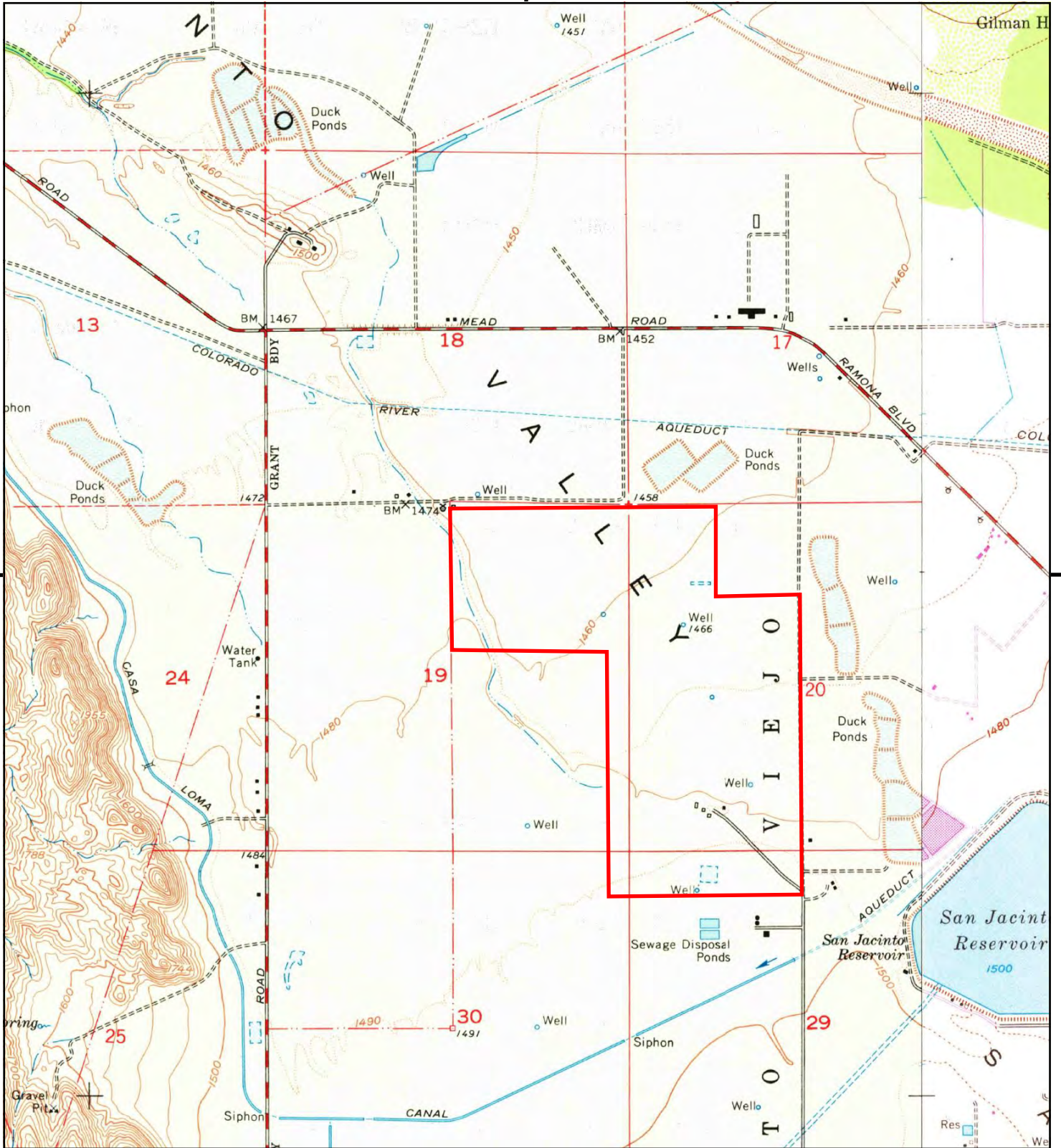
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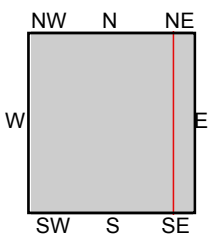
TP, Lakeview, 1979, 7.5-minute
E, San Jacinto, 1979, 7.5-minute

SITE NAME: Villages of San Jacinto
ADDRESS: 870 & 1380 N Sanderson Avenue
San Jacinto, CA 92582
CLIENT: Roux Associates





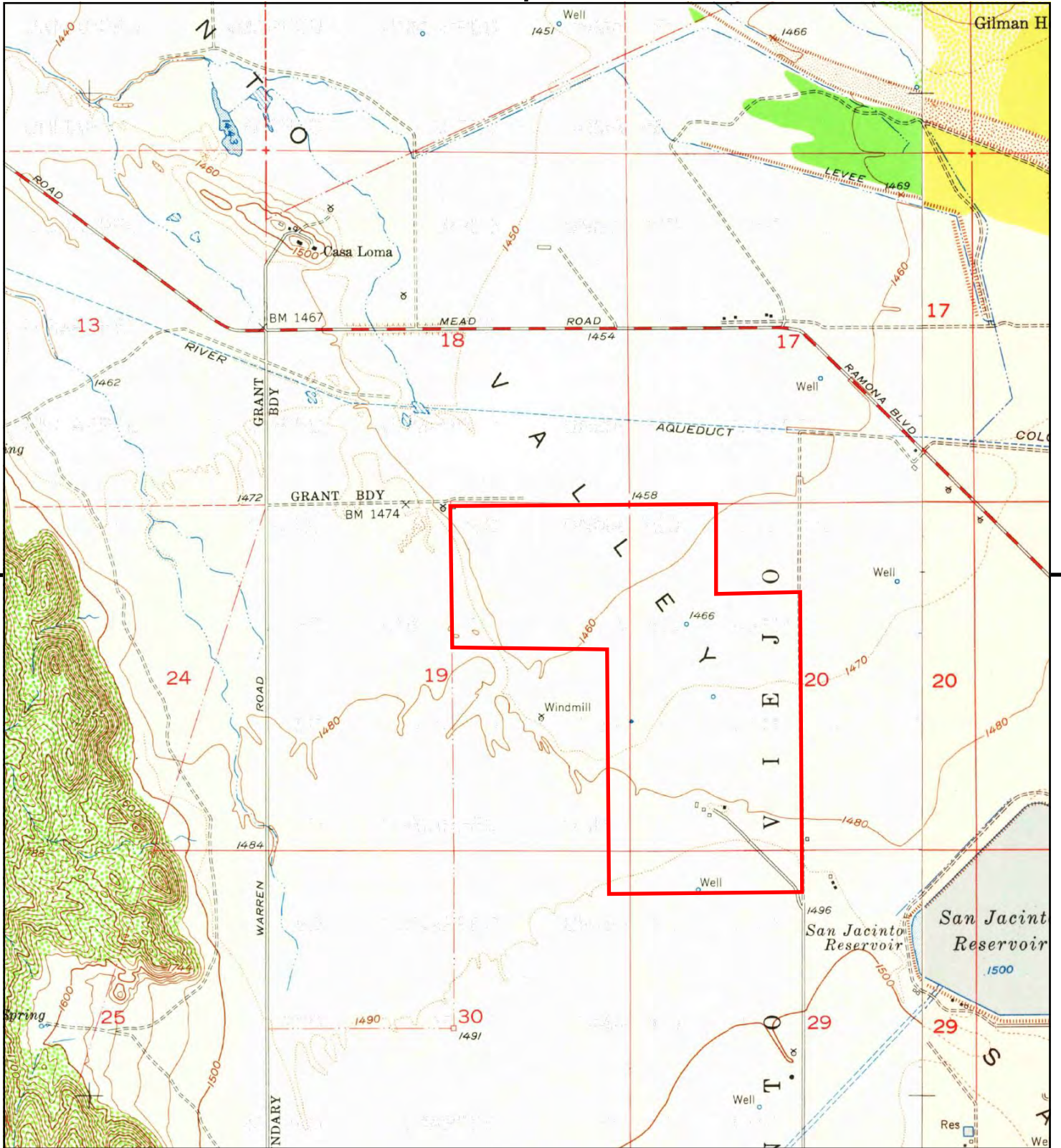
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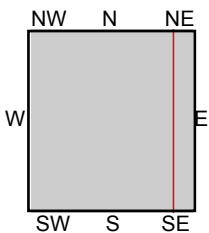
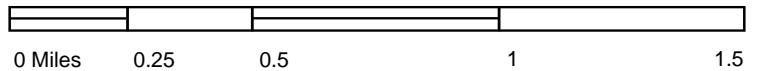
TP, Lakeview, 1967, 7.5-minute
E, San Jacinto, 1972, 7.5-minute

SITE NAME: Villages of San Jacinto
ADDRESS: 870 & 1380 N Sanderson Avenue
San Jacinto, CA 92582
CLIENT: Roux Associates





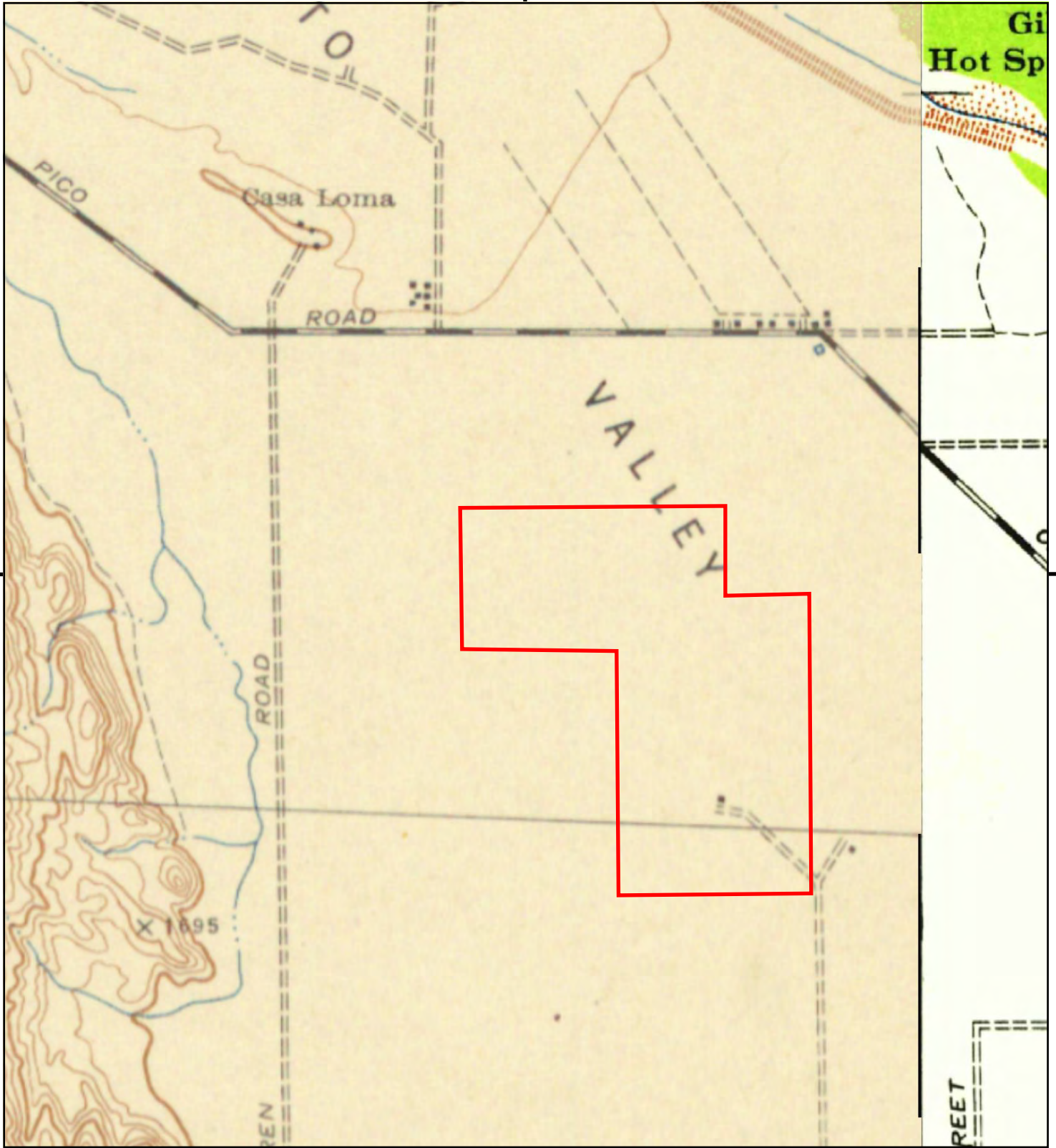
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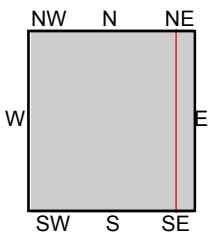
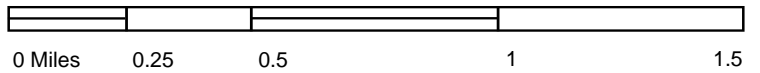
TP, Lakeview, 1953, 7.5-minute
E, San Jacinto, 1953, 7.5-minute

SITE NAME: Villages of San Jacinto
ADDRESS: 870 & 1380 N Sanderson Avenue
San Jacinto, CA 92582
CLIENT: Roux Associates





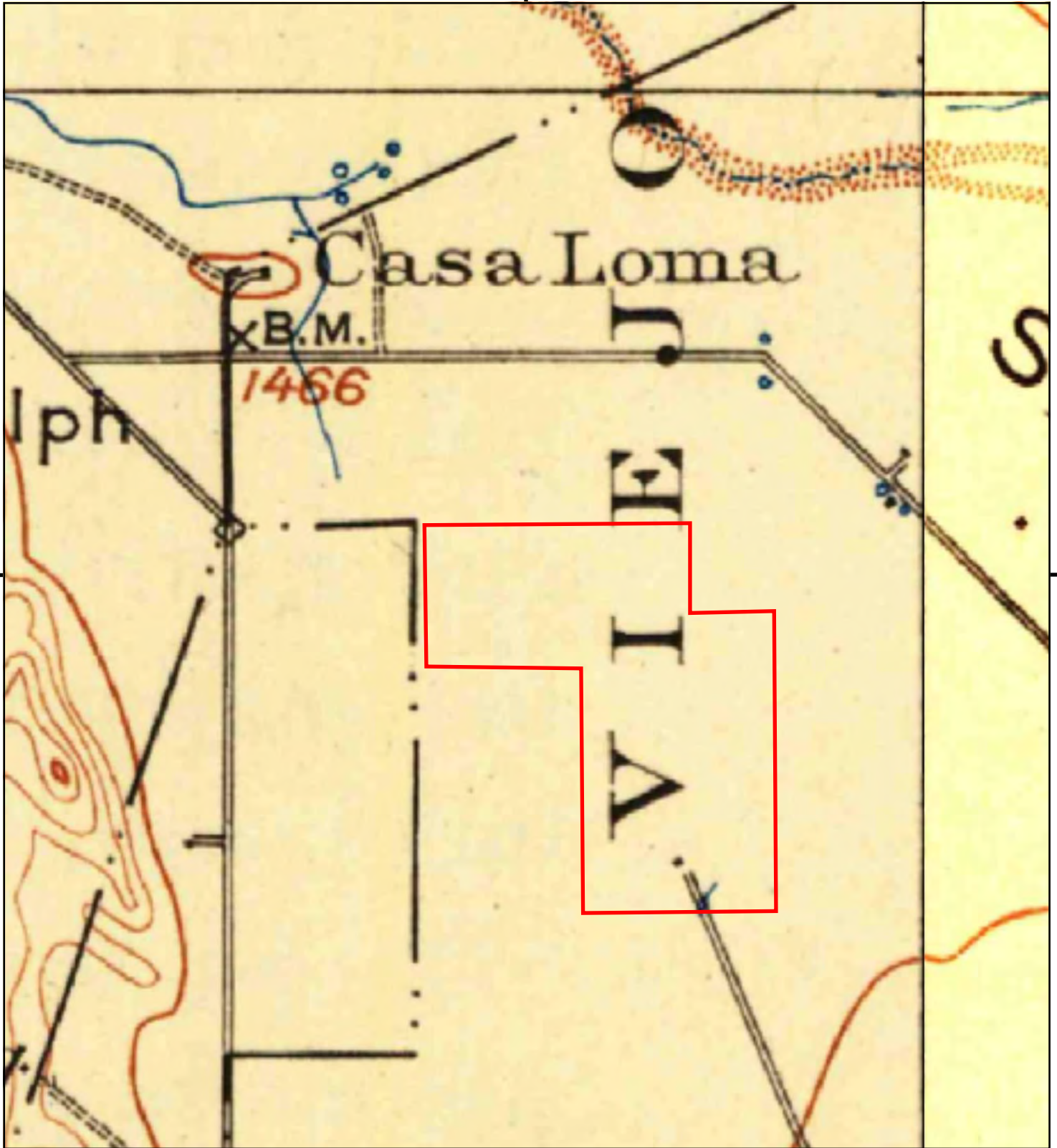
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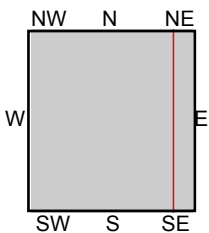
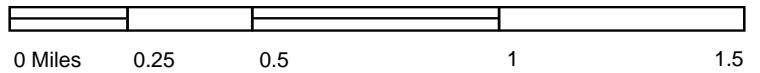
TP, PERRIS, 1943, 15-minute
NE, Banning, 1943, 15-minute

SITE NAME: Villages of San Jacinto
ADDRESS: 870 & 1380 N Sanderson Avenue
San Jacinto, CA 92582
CLIENT: Roux Associates





This report includes information from the following map sheet(s).



TP, Elsinore, 1901, 30-minute
E, San Jacinto, 1901, 30-minute

SITE NAME: Villages of San Jacinto
 ADDRESS: 870 & 1380 N Sanderson Avenue
 San Jacinto, CA 92582
 CLIENT: Roux Associates



Historical Aerial Photographs



Villages of San Jacinto

870 & 1380 N Sanderson Avenue

San Jacinto, CA 92582

Inquiry Number: 6599939.8

July 30, 2021

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

07/30/21

Site Name:

Villages of San Jacinto
870 & 1380 N Sanderson Ave
San Jacinto, CA 92582
EDR Inquiry # 6599939.8

Client Name:

Roux Associates
402 Heron Drive
Logan Township, NJ 08085-0000
Contact: Connor Moore



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=875'	Flight Year: 2016	USDA/NAIP
2012	1"=875'	Flight Year: 2012	USDA/NAIP
2009	1"=875'	Flight Year: 2009	USDA/NAIP
2006	1"=875'	Flight Year: 2006	USDA/NAIP
2002	1"=875'	Acquisition Date: January 01, 2002	USGS/DOQQ
1996	1"=875'	Acquisition Date: September 30, 1996	USGS/DOQQ
1989	1"=875'	Flight Date: August 14, 1989	USDA
1985	1"=875'	Flight Date: February 24, 1985	USDA
1978	1"=875'	Flight Date: September 21, 1978	USDA
1975	1"=875'	Flight Date: September 18, 1975	USGS
1967	1"=875'	Flight Date: May 09, 1967	USDA
1961	1"=875'	Flight Date: June 16, 1961	USDA
1953	1"=875'	Flight Date: August 22, 1953	USDA
1949	1"=875'	Flight Date: May 25, 1949	USDA
1938	1"=875'	Flight Date: June 14, 1938	USDA

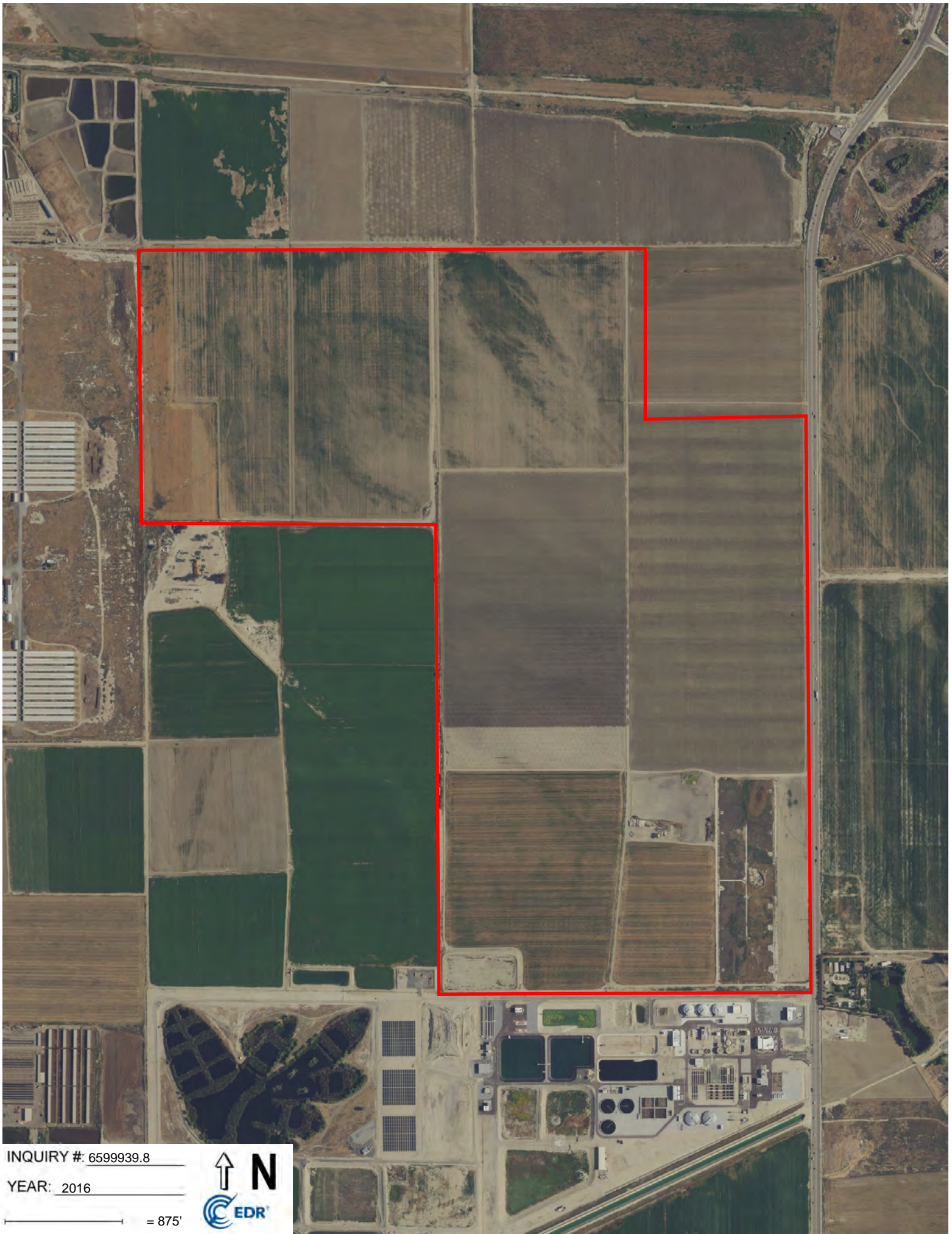
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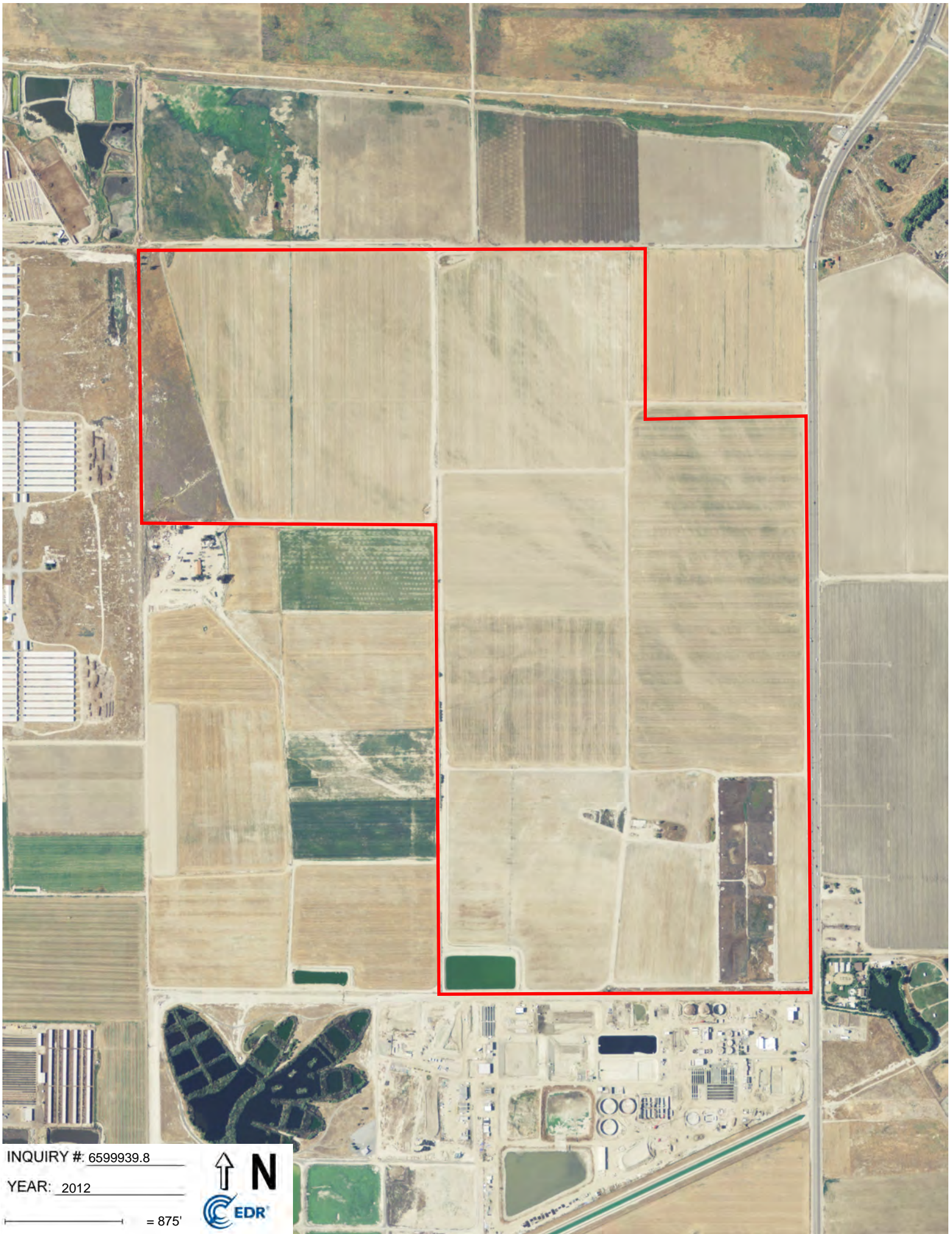


INQUIRY #: 6599939.8

YEAR: 2016

— = 875'



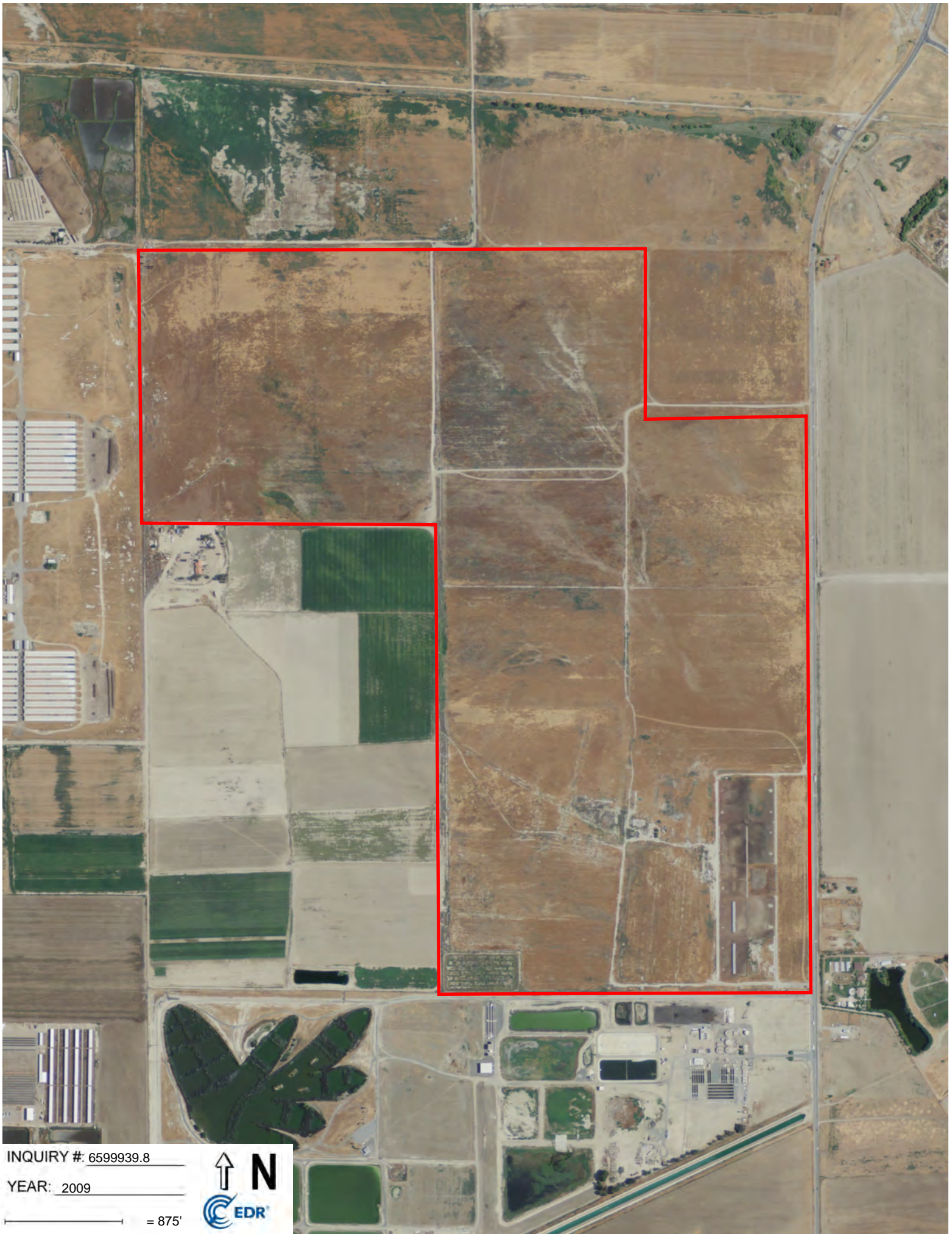


INQUIRY #: 6599939.8

YEAR: 2012

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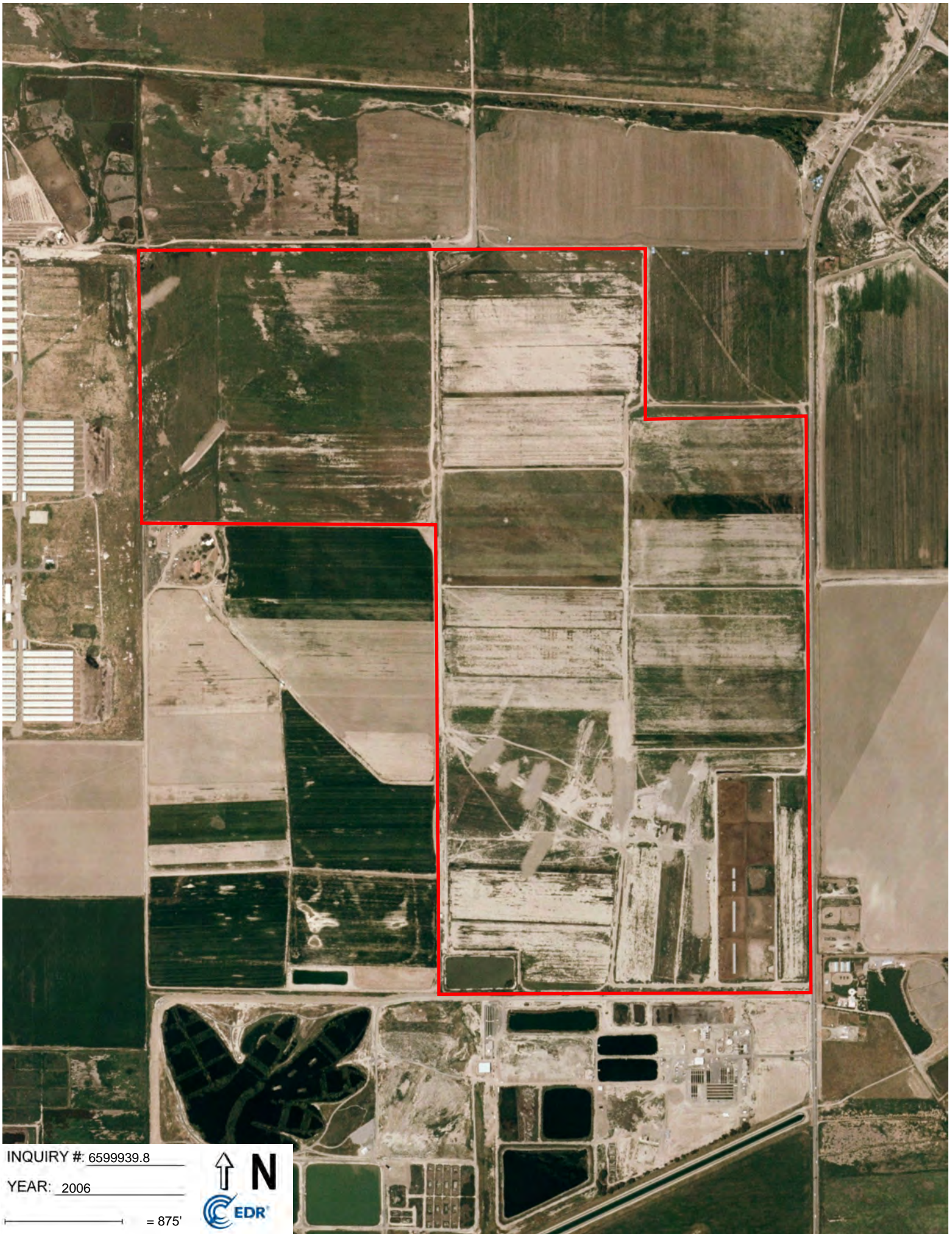


INQUIRY #: 6599939.8

YEAR: 2009

— = 875'





INQUIRY #: 6599939.8

YEAR: 2006

— = 875'





INQUIRY #: 6599939.8

YEAR: 2002

— = 875'



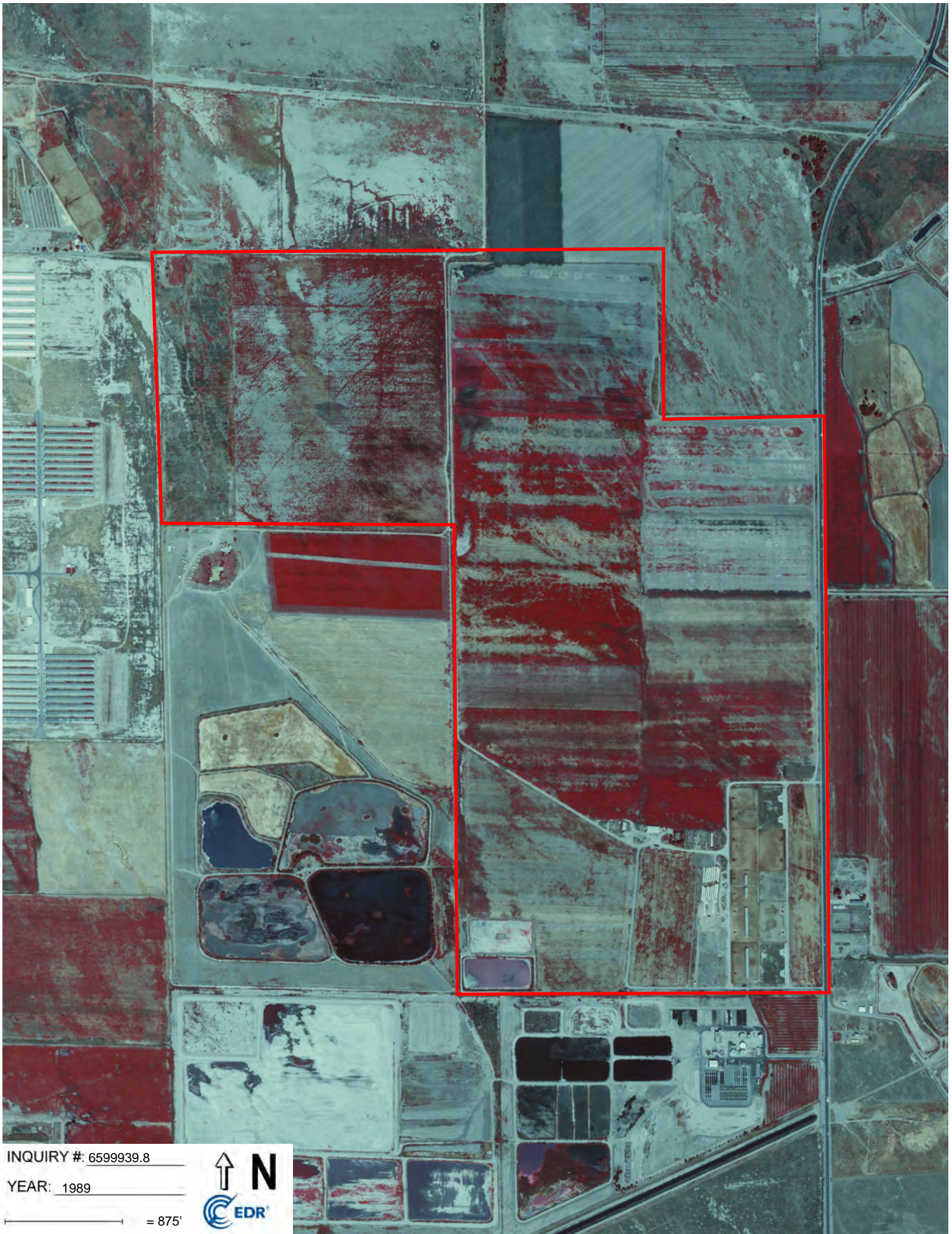


INQUIRY #: 6599939.8

YEAR: 1996

— = 875'





INQUIRY #: 6599939.8

YEAR: 1989

— = 875'





INQUIRY #: 6599939.8

YEAR: 1985

— = 875'





3387

INQUIRY #: 6599939.8

YEAR: 1978

— = 875'



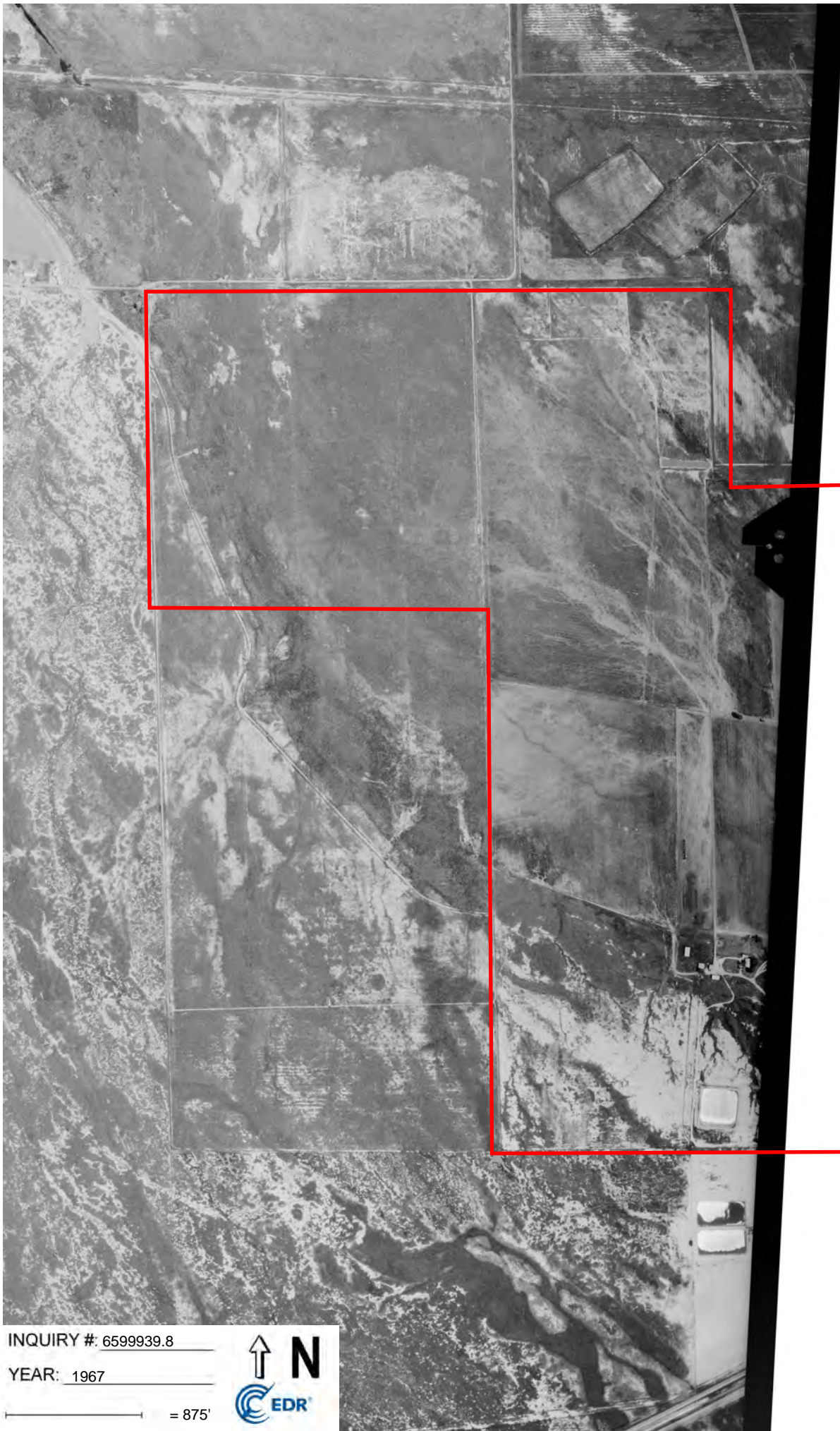


INQUIRY #: 6599939.8

YEAR: 1975

— = 875'





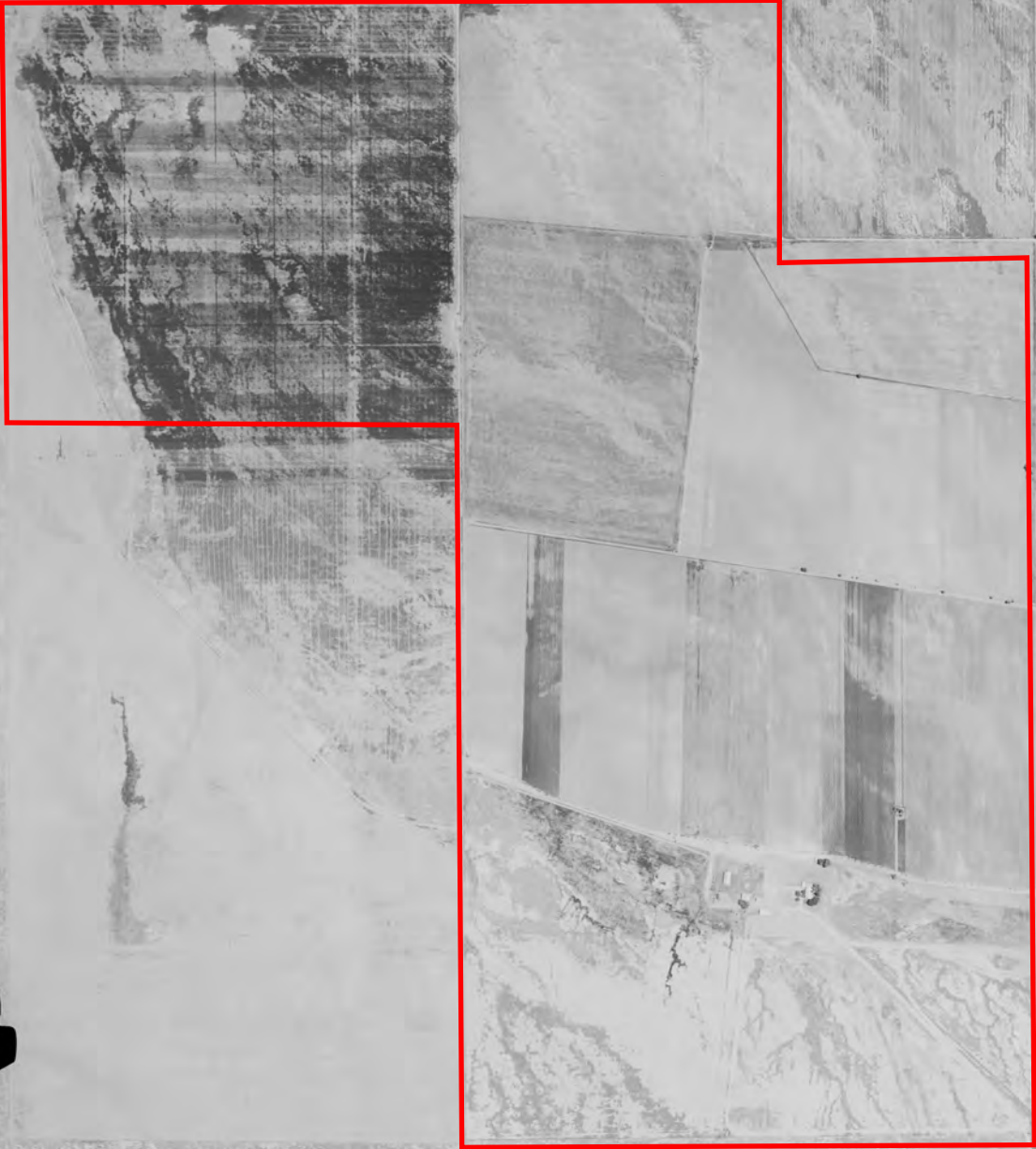
INQUIRY #: 6599939.8

YEAR: 1967

— = 875'



0 10 01



INQUIRY #: 6599939.8

YEAR: 1961

— = 875'





INQUIRY #: 6599939.8

YEAR: 1953

— = 875'



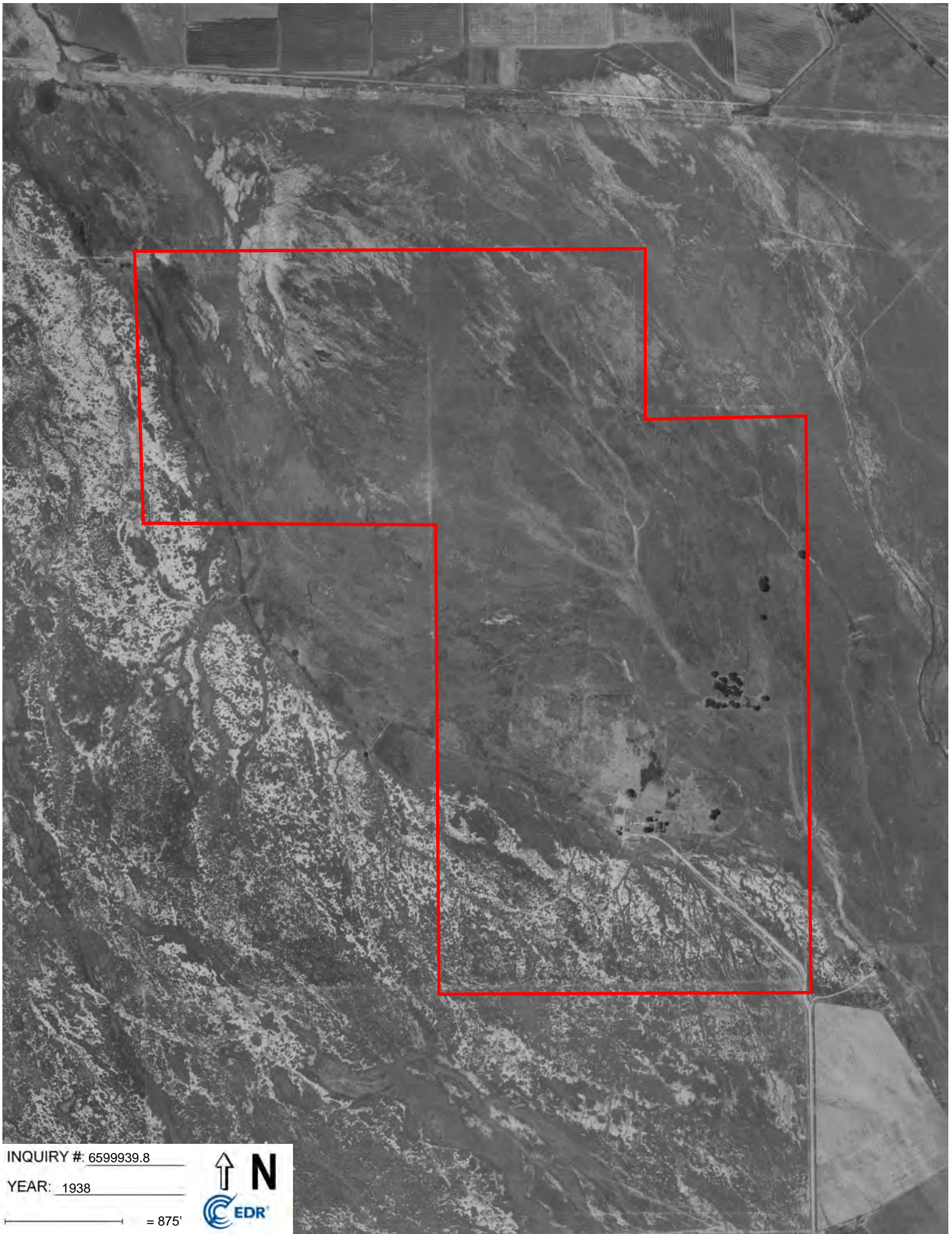


INQUIRY #: 6599939.8

YEAR: 1949

— = 875'





INQUIRY #: 6599939.8

YEAR: 1938

— = 875'



Phase I Environmental Site Assessment
North Sanderson Avenue, Assessor's Parcel Numbers 432-030-006, 432-030-010, and 432-030-011
San Jacinto, California

APPENDIX D

Certified Sanborn Report

Villages of San Jacinto
870 & 1380 N Sanderson Avenue
San Jacinto, CA 92582

Inquiry Number: 6599939.3

July 30, 2021

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/30/21

Site Name:

Villages of San Jacinto
870 & 1380 N Sanderson Ave
San Jacinto, CA 92582
EDR Inquiry # 6599939.3

Client Name:

Roux Associates
402 Heron Drive
Logan Township, NJ 08085-0000
Contact: Connor Moore



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Roux Associates were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # BBE2-46F7-9125
PO # NA
Project Shea Villages of San Jacinto

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: BBE2-46F7-9125

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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Phase I Environmental Site Assessment
North Sanderson Avenue, Assessor's Parcel Numbers 432-030-006, 432-030-010, and 432-030-011
San Jacinto, California

APPENDIX E

EDR City Directory Image Report

Villages of San Jacinto

870 & 1380 N Sanderson Avenue
San Jacinto, CA 92582

Inquiry Number: 6599939.5
August 03, 2021

The EDR-City Directory Image Report

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Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.



RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2017	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2014	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1990	<input type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1985	<input type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1980	<input type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1976	<input type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1971	<input type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

870 & 1380 N Sanderson Avenue
San Jacinto, CA 92582

Year CD Image Source

N SANDERSON AVE

2017	pg A1	EDR Digital Archive	
2014	pg A2	EDR Digital Archive	
2010	pg A3	EDR Digital Archive	
2005	pg A4	EDR Digital Archive	
2000	pg A5	EDR Digital Archive	
1995	pg A6	EDR Digital Archive	
1990	-	Haines Criss-Cross Directory	Target and Adjoining not listed in Source
1985	-	Haines Criss-Cross Directory	Target and Adjoining not listed in Source
1980	-	Haines Criss-Cross Directory	Target and Adjoining not listed in Source
1976	-	Haines Criss-Cross Directory	Target and Adjoining not listed in Source
1971	-	Haines Criss-Cross Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images



-

N SANDERSON AVE 2017

327	AVALOS, TARIACURI T
805	ARD, CAROLINE L THE CALIFORNIA EQUINE RETIREMENT FOU
1727	BROWNE, KENNETH A

N SANDERSON AVE 2014

327 SANDOVAL, HORTENCIA
805 MATOS, GERARDO
1225 OCCUPANT UNKNOWN,
1315 PEREZ, S
1727 BROWNE, KENNETH A

N SANDERSON AVE 2010

327	WILLIAMS, LINDA S
775	IPARAGUIRRE, BOB JO LAND & CATTLE CO
805	OCCUPANT UNKNOWN,
981	CARRERA, SJAC DUNCAN, KATHARINE R
1225	HENRY, RONDA S
1315	PEREZ, HILARIO

N SANDERSON AVE 2005

775 OCCUPANT UNKNOWN,
870 WESTRA, JOHN J
981 CARRERA, MARIA M
DUNCAN, KATHARINE R
1225 HENRY, RONDA S
1315 PEREZ, HILARIO
1380 WESTRA, JOHN J
2070 MIA VIA PIZZA
MOBIL SUBWAY
SANDERSON MOBIL



-

N SANDERSON AVE 2000

327 HURST, GORDON D
2070 MIA VIA PIZZA
SANDERSON MOBIL
SANDERSONS SUBWAY



-

N SANDERSON AVE 1995

327	HURST, CATHY
805	WIND MACHINE SALES & SVC

Phase I Environmental Site Assessment
North Sanderson Avenue, Assessor's Parcel Numbers 432-030-006, 432-030-010, and 432-030-011
San Jacinto, California

APPENDIX F

EDR Radius Map Report with Geotcheck®

Villages of San Jacinto

870 & 1380 N Sanderson Avenue
San Jacinto, CA 92582

Inquiry Number: 6599939.2s
July 30, 2021

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Addendum	A-1
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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

870 & 1380 N SANDERSON AVENUE
SAN JACINTO, CA 92582

COORDINATES

Latitude (North): 33.8133280 - 33° 48' 47.98"
Longitude (West): 117.0206380 - 117° 1' 14.29"
Universal Transverse Mercator: Zone 11
UTM X (Meters): 498089.9
UTM Y (Meters): 3741264.8
Elevation: 1460 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5640936 LAKEVIEW, CA
Version Date: 2012

East Map: 5641216 SAN JACINTO, CA
Version Date: 2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140530
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
 870 & 1380 N SANDERSON AVENUE
 SAN JACINTO, CA 92582

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1		870 SANDERSON AVE	CHMIRS		TP
A2	WESTERN FAMILY TRUST	870 N SANDERSON	HAZNET, HWTS		TP
A3	WESTRA DAIRY FARM	870 SANDERSON	RGA LUST		TP
A4	WESTRA DAIRY FARM	870 SANDERSON	LUST, Cortese, CERS		TP
A5	WESTRA DAIRY FARM	870 SANDERSON	FINDS		TP
A6	QUALITY TURF	870 SANDERSON AVE	FINDS		TP
B7	PROPOSED HIGH SCHOOL	RAMONA BOULEVARD/CAW	ENVIROSTOR, SCH	Higher	1 ft.
B8	PROPOSED HIGH SCHOOL	RAMONA BOULEVARD/CAW	CERS	Higher	1 ft.
C9	SAN JACINTO VALLEY R	700 N SANDERSON AVE	FINDS	Higher	1 ft.
C10	SAN JACINTO VALLEY R	700 N SANDERSON AVE	RCRA-VSQQ	Higher	1 ft.
D11	EMWD SAN JACINTO VAL	770 N SANDERSON AVE	CERS HAZ WASTE, CERS TANKS, CHMIRS, NPDES, CIWQS,	Higher	769, 0.146, SSE
D12	HEMET SAN JACINTO RE	770 N SANDERSON AVE	AST	Higher	769, 0.146, SSE
D13	SAN JACINTO VALLEY R	770 NORTH SANDERSON	RCRA-LQG	Higher	769, 0.146, SSE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
870 SANDERSON AVE 870 SANDERSON AVE SAN JACINTO, CA 91761	CHMIRS OES Incident Number: 9-0444	N/A
WESTERN FAMILY TRUST 870 N SANDERSON SAN JACINTO, CA 92582	HAZNET GEPAID: CAC001322952 HWTS	N/A
WESTRA DAIRY FARM 870 SANDERSON SAN JACINTO, CA	RGALUST	N/A
WESTRA DAIRY FARM 870 SANDERSON SAN JACINTO, CA 92582	LUST Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Facility Status: Case Closed Global Id: T0606599136 Global ID: T0606599136 Cortese Cleanup Status: COMPLETED - CASE CLOSED CERS	N/A
WESTRA DAIRY FARM 870 SANDERSON SAN JACINTO, CA 92582	FINDS Registry ID:: 110065084571	N/A
QUALITY TURF 870 SANDERSON AVE SAN JACINTO, CA 92582	FINDS Registry ID:: 110066404055	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-SQG..... RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE..... State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Information System

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC..... Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
UST..... Active UST Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
HIST Cal-Sites..... Historical Calsites Database
CDL..... Clandestine Drug Labs
Toxic Pits..... Toxic Pits Cleanup Act Sites
US CDL..... National Clandestine Laboratory Register
PFAS..... PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

SWEEPS UST..... SWEEPS UST Listing
HIST UST..... Hazardous Substance Storage Container Database
CA FID UST..... Facility Inventory Database

Local Land Records

LIENS..... Environmental Liens Listing

EXECUTIVE SUMMARY

LIENS 2 CERCLA Lien Information
DEED Deed Restriction Listing

Records of Emergency Release Reports

HMIRS Hazardous Materials Information Reporting System
LDS Land Disposal Sites Listing
MCS Military Cleanup Sites Listing
SPILLS 90 SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR RCRA - Non Generators / No Longer Regulated
FUDS Formerly Used Defense Sites
DOD Department of Defense Sites
SCRD DRYCLEANERS State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR Financial Assurance Information
EPA WATCH LIST EPA WATCH LIST
2020 COR ACTION 2020 Corrective Action Program List
TSCA Toxic Substances Control Act
TRIS Toxic Chemical Release Inventory System
SSTS Section 7 Tracking Systems
ROD Records Of Decision
RMP Risk Management Plans
RAATS RCRA Administrative Action Tracking System
PRP Potentially Responsible Parties
PADS PCB Activity Database System
ICIS Integrated Compliance Information System
FTTS FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS Material Licensing Tracking System
COAL ASH DOE Steam-Electric Plant Operation Data
COAL ASH EPA Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER PCB Transformer Registration Database
RADINFO Radiation Information Database
HIST FTTS FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS Incident and Accident Data
CONSENT Superfund (CERCLA) Consent Decrees
INDIAN RESERV Indian Reservations
FUSRAP Formerly Utilized Sites Remedial Action Program
UMTRA Uranium Mill Tailings Sites
LEAD SMELTERS Lead Smelter Sites
US AIRS Aerometric Information Retrieval System Facility Subsystem
US MINES Mines Master Index File
ABANDONED MINES Abandoned Mines
UXO Unexploded Ordnance Sites
ECHO Enforcement & Compliance History Information
DOCKET HWC Hazardous Waste Compliance Docket Listing
FUELS PROGRAM EPA Fuels Program Registered Listing
CA BOND EXP. PLAN Bond Expenditure Plan
CUPA Listings CUPA Resources List
DRYCLEANERS Cleaner Facilities
EMI Emissions Inventory Data
ENF Enforcement Action Listing
Financial Assurance Financial Assurance Information Listing

EXECUTIVE SUMMARY

ICE.....	ICE
HIST CORTESE.....	Hazardous Waste & Substance Site List
HWP.....	EnviroStor Permitted Facilities Listing
HWT.....	Registered Hazardous Waste Transporter Database
MINES.....	Mines Site Location Listing
MWMP.....	Medical Waste Management Program Listing
NPDES.....	NPDES Permits Listing
PEST LIC.....	Pesticide Regulation Licenses Listing
PROC.....	Certified Processors Database
Notify 65.....	Proposition 65 Records
UIC.....	UIC Listing
UIC GEO.....	UIC GEO (GEOTRACKER)
WASTEWATER PITS.....	Oil Wastewater Pits Listing
WDS.....	Waste Discharge System
WIP.....	Well Investigation Program Case List
MILITARY PRIV SITES.....	MILITARY PRIV SITES (GEOTRACKER)
PROJECT.....	PROJECT (GEOTRACKER)
WDR.....	Waste Discharge Requirements Listing
CIWQS.....	California Integrated Water Quality System
NON-CASE INFO.....	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS.....	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS.....	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT.....	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ.....	Well Stimulation Project (GEOTRACKER)
MINES MRDS.....	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF.....	Recovered Government Archive Solid Waste Facilities List
-------------	--

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/22/2021 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SAN JACINTO VALLEY R EPA ID:: CAL000089262	770 NORTH SANDERSON	SSE 1/8 - 1/4 (0.146 mi.)	D13	31

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 03/22/2021 has revealed that there is 1 RCRA-VSQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SAN JACINTO VALLEY R EPA ID:: CAL000344571	700 N SANDERSON AVE	0 - 1/8 (0.000 mi.)	C10	21

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 04/23/2021 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PROPOSED HIGH SCHOOL	RAMONA BOULEVARD/CAW	0 - 1/8 (0.000 mi.)	B7	17

EXECUTIVE SUMMARY

Facility Id: 60000906
Status: No Further Action

State and tribal registered storage tank lists

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HEMET SAN JACINTO RE Database: AST, Date of Government Version: 07/06/2016	770 N SANDERSON AVE	SSE 1/8 - 1/4 (0.146 mi.)	D12	30

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

SCH: This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category. depending on the level of threat to public health and safety or the environment they pose.

A review of the SCH list, as provided by EDR, and dated 04/23/2021 has revealed that there is 1 SCH site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>PROPOSED HIGH SCHOOL</i> Facility Id: 60000906 Status: No Further Action	<i>RAMONA BOULEVARD/CAW</i>	<i>0 - 1/8 (0.000 mi.)</i>	<i>B7</i>	<i>17</i>

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 04/19/2021 has revealed that there is 1 CERS HAZ WASTE site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>EMWD SAN JACINTO VAL</i>	<i>770 N SANDERSON AVE</i>	<i>SSE 1/8 - 1/4 (0.146 mi.)</i>	<i>D11</i>	<i>23</i>

EXECUTIVE SUMMARY

Local Lists of Registered Storage Tanks

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 04/19/2021 has revealed that there is 1 CERS TANKS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
EMWD SAN JACINTO VAL	770 N SANDERSON AVE	SSE 1/8 - 1/4 (0.146 mi.)	D11	23

Other Ascertainable Records

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 02/03/2021 has revealed that there is 1 FINDS site within approximately 0.001 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SAN JACINTO VALLEY R	700 N SANDERSON AVE	0 - 1/8 (0.000 mi.)	C9	20

CERS: The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

A review of the CERS list, as provided by EDR, and dated 04/19/2021 has revealed that there is 1 CERS site within approximately 0.001 miles of the target property.

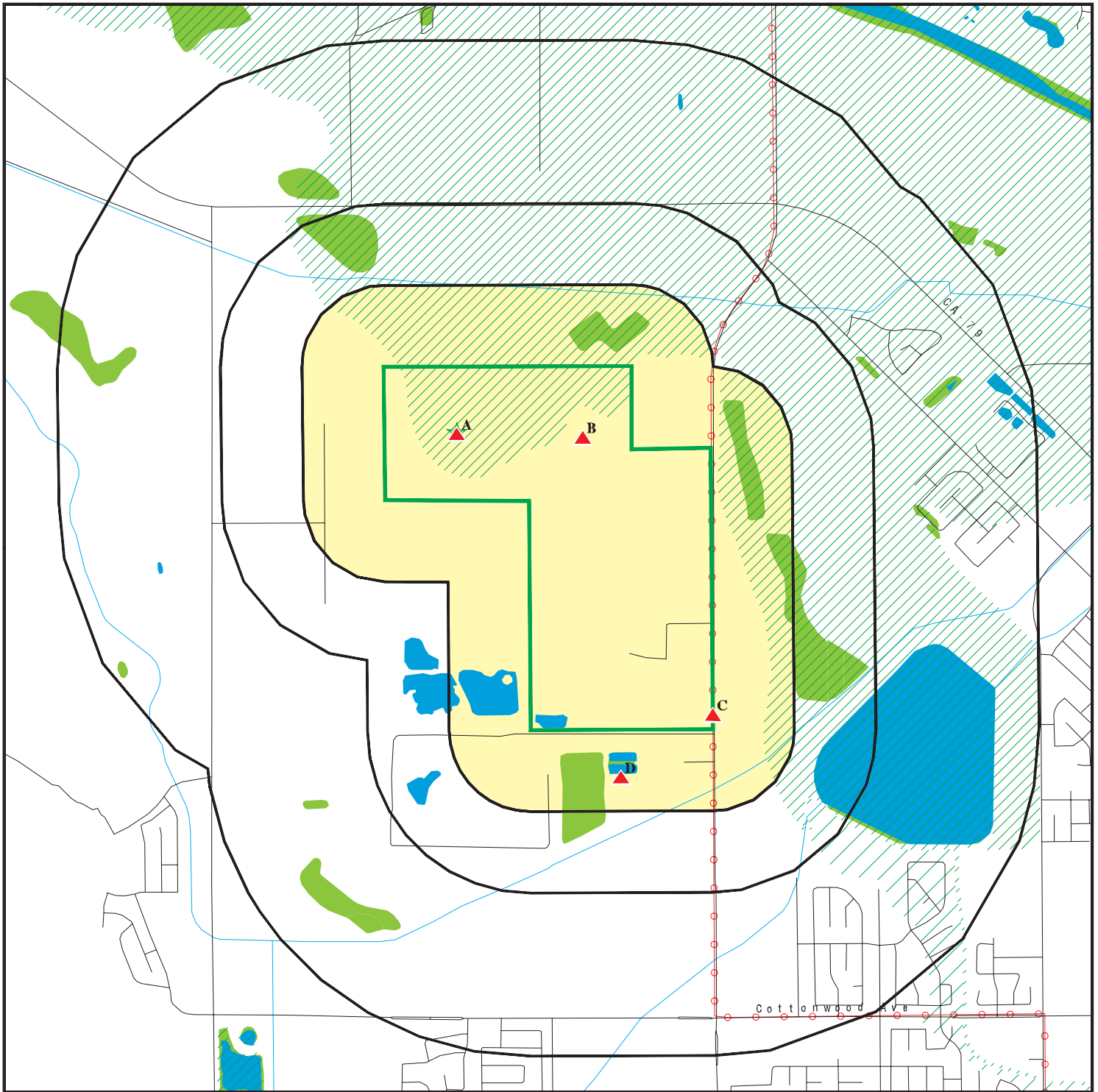
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PROPOSED HIGH SCHOOL	RAMONA BOULEVARD/CAW	0 - 1/8 (0.000 mi.)	B8	20

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

<u>Site Name</u>	<u>Database(s)</u>
HEMET/SAN JACINTO WWRF	CIWQS

OVERVIEW MAP - 6599939.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites



Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

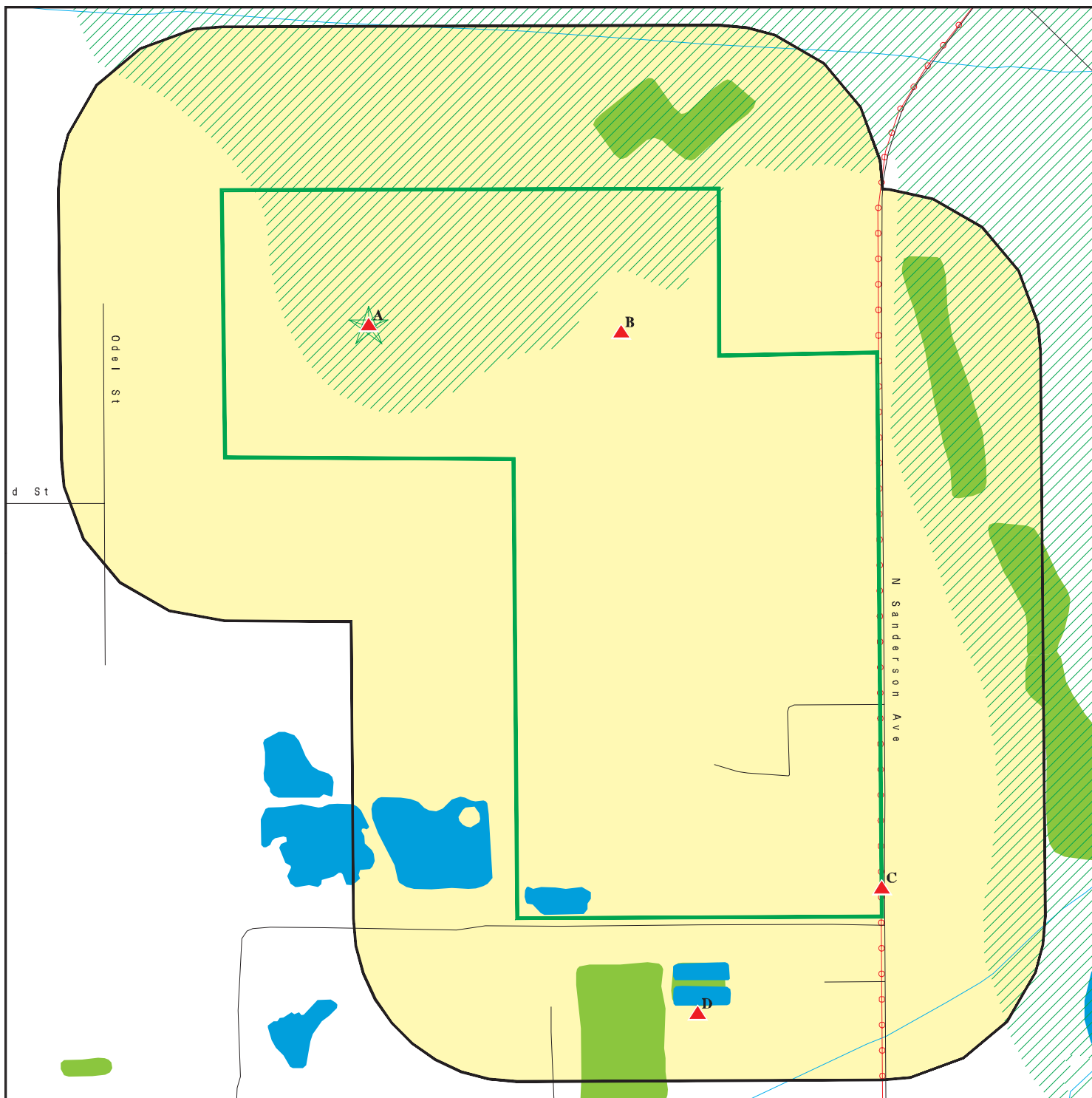







This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.








SITE NAME: Villages of San Jacinto
 ADDRESS: 870 & 1380 N Sanderson Avenue
 San Jacinto CA 92582
 LAT/LONG: 33.813328 / 117.020638

CLIENT: Roux Associates
 CONTACT: Connor Moore
 INQUIRY #: 6599939.2s
 DATE: July 30, 2021 2:02 pm

DETAIL MAP - 6599939.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands
-  Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Villages of San Jacinto
 ADDRESS: 870 & 1380 N Sanderson Avenue
 San Jacinto CA 92582
 LAT/LONG: 33.813328 / 117.020638

CLIENT: Roux Associates
 CONTACT: Connor Moore
 INQUIRY #: 6599939.2s
 DATE: July 30, 2021 2:03 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		1	0	NR	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL RESPONSE</i>								
RESPONSE	1.000		0	0	0	0	NR	0
<i>State- and tribal - equivalent CERCLIS ENVIROSTOR</i>								
ENVIROSTOR	1.000		1	0	0	0	NR	1
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500	1	0	0	0	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		1	0	NR	NR	NR	1
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	1	NR	NR	NR	1
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	1	NR	NR	NR	1
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001	1	0	NR	NR	NR	NR	1
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	2	1	NR	NR	NR	NR	3
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500	1	0	0	0	NR	NR	1
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

A1
Target 870 SANDERSON AVE
Property SAN JACINTO, CA 91761

CHMIRS S105663211
N/A

Site 1 of 6 in cluster A

Actual:
1460 ft.

CHMIRS:
Name: Not reported
Address: 870 SANDERSON AVE
City,State,Zip: SAN JACINTO, CA 91761
OES Incident Number: 9-0444
OES notification: 01/29/1999
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Responsible Party
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1999
Agency: Riverside Co Fire
Incident Date: 1/28/1999 12:00:00 AM
Admin Agency: Riverside County Environmental Health
Amount: Not reported
Contained: Yes
Site Type: Other
E Date: Not reported
Substance: Waste motor oil
Unknown: 0

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

S105663211

Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Fire was called to a burning operation at a dairy. They located ten 55 gallon drums of waste motor oil that were leaking and overturned. There was also evidence that some oil had been dumped into a refuse pit and burned.

A2 **WESTERN FAMILY TRUST**
Target **870 N SANDERSON**
Property **SAN JACINTO, CA 92582**

HAZNET **S112882392**
HWTS **N/A**

Site 2 of 6 in cluster A

Actual:
1460 ft.

HAZNET:	
Name:	WESTERN FAMILY TRUST
Address:	870 N SANDERSON
Address 2:	Not reported
City,State,Zip:	SAN JACINTO, CA 925820000
Contact:	ED MCGLOTHLIN - CHEMIST
Telephone:	9096256645
Mailing Name:	Not reported
Mailing Address:	11023 EUCALYPTUS
Year:	1999
Gepaid:	CAC001322952
TSD EPA ID:	CAD028409019
CA Waste Code:	141 - Off-specification, aged or surplus inorganics
Disposal Method:	T01 - Treatment, Tank
Tons:	4.17

Additional Info:

Year:	1999
Gen EPA ID:	CAC001322952

Shipment Date:	19991214
Creation Date:	2/15/2000 0:00:00
Receipt Date:	19991215
Manifest ID:	99781720
Trans EPA ID:	CAD983668583
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WESTERN FAMILY TRUST (Continued)

S112882392

TSDF EPA ID: CAD028409019
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 141 - Off-specification, aged, or surplus inorganics
RCRA Code: Not reported
Meth Code: T01 - Treatment, Tank
Quantity Tons: 4.17
Waste Quantity: 1000
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

HWTS:

Name: WESTERN FAMILY TRUST
Address: 870 N SANDERSON
Address 2: Not reported
City,State,Zip: SAN JACINTO, CA 925820000
EPA ID: CAC001322952
Inactive Date: 10/25/2000
Create Date: 12/10/1999
Last Act Date: 10/25/2000
Mailing Name: Not reported
Mailing Address: 11023 EUCALYPTUS
Mailing Address 2: Not reported
Mailing City,State,Zip: ONTARIO, CA 917630000
Owner Name: WESTERN FAMILY TRUST
Owner Address: 11023 EUCALYPTUS
Owner Address 2: Not reported
Owner City,State,Zip: ONTARIO, CA 917630000
Contact Name: ED MCGLOTHLIN - CHEMIST
Contact Address: 10680 SILICON AVE
Contact Address 2: Not reported
City,State,Zip: MONTCLAIR, CA 917630000

**A3
Target
Property**

**WESTRA DAIRY FARM
870 SANDERSON
SAN JACINTO, CA**

**RGA LUST S114721669
N/A**

Site 3 of 6 in cluster A

**Actual:
1460 ft.**

RGA LUST:
Name: WESTRA DAIRY FARM
Address: 870 SANDERSON
City: SAN JACINTO
State: SAN JACINTO
2012 WESTRA DAIRY FARM 870 SANDERSON
Name: WESTRA DAIRY FARM
Address: 870 SANDERSON
City: SAN JACINTO
State: SAN JACINTO
2011 WESTRA DAIRY FARM 870 SANDERSON
Name: WESTRA DAIRY FARM
Address: 870 SANDERSON

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WESTRA DAIRY FARM (Continued)

S114721669

City: SAN JACINTO
 State: SAN JACINTO
 2010 WESTRA DAIRY FARM 870 SANDERSON
 Name: WESTRA DAIRY FARM
 Address: 870 SANDERSON
 City: SAN JACINTO
 State: SAN JACINTO
 2009 WESTRA DAIRY FARM 870 SANDERSON
 Name: WESTRA DAIRY FARM
 Address: 870 SANDERSON
 City: SAN JACINTO
 State: SAN JACINTO
 2008 WESTRA DAIRY FARM 870 SANDERSON
 Name: WESTRA DAIRY FARM
 Address: 870 SANDERSON
 City: SAN JACINTO
 State: SAN JACINTO
 2007 WESTRA DAIRY FARM 870 SANDERSON
 Name: WESTRA DAIRY FARM
 Address: 870 SANDERSON
 City: SAN JACINTO
 State: SAN JACINTO
 2006 WESTRA DAIRY FARM 870 SANDERSON
 Name: WESTRA DAIRY FARM
 Address: 870 SANDERSON
 City: SAN JACINTO
 State: SAN JACINTO
 2005 WESTRA DAIRY FARM 870 SANDERSON
 Name: WESTRA DAIRY FARM
 Address: 870 SANDERSON
 City: SAN JACINTO
 State: SAN JACINTO
 2003 WESTRA DAIRY FARM 870 SANDERSON
 Name: WESTRA DAIRY FARM
 Address: 870 SANDERSON
 City: SAN JACINTO
 State: SAN JACINTO
 2002 WESTRA DAIRY FARM 870 SANDERSON
 Name: WESTRA DAIRY FARM
 Address: 870 SANDERSON
 City: SAN JACINTO
 State: SAN JACINTO
 2001 WESTRA DAIRY FARM 870 SANDERSON

A4 WESTRA DAIRY FARM
Target 870 SANDERSON
Property SAN JACINTO, CA 92582

LUST S104539431
Cortese N/A
CERS

Site 4 of 6 in cluster A

Actual:
1460 ft.

LUST:
 Name: WESTRA DAIRY FARM
 Address: 870 SANDERSON
 City,State,Zip: SAN JACINTO, CA 92582
 Lead Agency: SANTA ANA RWQCB (REGION 8)
 Case Type: LUST Cleanup Site
 Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606599136
 Global Id: T0606599136

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WESTRA DAIRY FARM (Continued)

S104539431

Latitude: 33.7985312
Longitude: -117.0068849
Status: Completed - Case Closed
Status Date: 12/26/2001
Case Worker: RS
RB Case Number: 083303601T
Local Agency: RIVERSIDE COUNTY LOP
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0606599136
Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rose.scott@waterboards.ca.gov
Phone Number: 9513206375

Global Id: T0606599136
Contact Type: Local Agency Caseworker
Contact Name: Riverside County LOP
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: Not reported
Phone Number: 9519558980

LUST:

Global Id: T0606599136
Action Type: ENFORCEMENT
Date: 12/26/2001
Action: Closure/No Further Action Letter

Global Id: T0606599136
Action Type: Other
Date: 12/14/1999
Action: Leak Discovery

Global Id: T0606599136
Action Type: Other
Date: 12/14/1999
Action: Leak Stopped

Global Id: T0606599136
Action Type: Other
Date: 02/21/2000
Action: Leak Reported

LUST:

Global Id: T0606599136
Status: Open - Case Begin Date
Status Date: 12/14/1999

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WESTRA DAIRY FARM (Continued)

S104539431

Global Id:	T0606599136
Status:	Open - Site Assessment
Status Date:	12/14/1999
Global Id:	T0606599136
Status:	Open - Site Assessment
Status Date:	06/02/2000
Global Id:	T0606599136
Status:	Open - Site Assessment
Status Date:	10/30/2000
Global Id:	T0606599136
Status:	Open - Verification Monitoring
Status Date:	05/07/2001
Global Id:	T0606599136
Status:	Completed - Case Closed
Status Date:	12/26/2001

LUST REG 8:

Name:	WESTRA DAIRY FARM
Address:	870 SANDERSON
City:	SAN JACINTO
Region:	8
County:	Riverside
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083303601T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Tank
Global ID:	T0606599136
How Stopped Date:	12/14/1999
Enter Date:	5/1/2000
Date Confirmation of Leak Began:	12/14/1999
Date Preliminary Assessment Began:	10/30/2000
Discover Date:	12/14/1999
Enforcement Date:	Not reported
Close Date:	12/26/2001
Date Prelim Assessment Workplan Submitted:	6/2/2000
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	5/7/2001
Enter Date:	5/1/2000
GW Qualifies:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WESTRA DAIRY FARM (Continued)

S104539431

Soil Qualifies: =
Operator: Not reported
Facility Contact: Not reported
Interim: Not reported
Oversite Program: LUST
Latitude: 33.806672
Longitude: -117.007106
MTBE Date: Not reported
Max MTBE GW: Not reported
MTBE Concentration: 1
Max MTBE Soil: 377
MTBE Fuel: 1
MTBE Tested: MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class: *
Staff: RS
Staff Initials: Not reported
Lead Agency: Regional Board
Local Agency: 33000L
Hydr Basin #: SAN JACINTO (8-5)
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: No
Summary: Not reported

CORTESE:

Name: WESTRA DAIRY FARM
Address: 870 SANDERSON
City,State,Zip: SAN JACINTO, CA 92582
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606599136
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:

Name: WESTRA DAIRY FARM
Address: 870 SANDERSON
City,State,Zip: SAN JACINTO, CA 92582
Site ID: 222944

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WESTRA DAIRY FARM (Continued)

S104539431

CERS ID: T0606599136
CERS Description: Leaking Underground Storage Tank Cleanup Site
Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: Riverside County LOP - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9519558980

Affiliation Type Desc: Regional Board Caseworker
Entity Name: ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9513206375

A5
Target
Property

WESTRA DAIRY FARM
870 SANDERSON
SAN JACINTO, CA 92582

FINDS **1023222040**
N/A

Site 5 of 6 in cluster A

Actual:
1460 ft.

FINDS:
Registry ID: 110065084571

Click Here:

Environmental Interest/Information System:
STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A6
Target
Property

QUALITY TURF
870 SANDERSON AVE
SAN JACINTO, CA 92582

FINDS **1023344581**
N/A

Site 6 of 6 in cluster A

Actual:
1460 ft.

FINDS:
Registry ID: 110066404055

Click Here:

Environmental Interest/Information System:
STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B7 **PROPOSED HIGH SCHOOL AT THE VILLAGES OF SAN JACINTO**
RAMONA BOULEVARD/CAWSTON AVENUE
< 1/8 **SAN JACINTO, CA 92582**
1 ft.

ENVIROSTOR **S109149563**
SCH **N/A**

Site 1 of 2 in cluster B

Relative:
Higher
Actual:
1463 ft.

ENVIROSTOR:
Name: PROPOSED HIGH SCHOOL AT THE VILLAGES OF SAN JACINTO
Address: RAMONA BOULEVARD/CAWSTON AVENUE
City,State,Zip: SAN JACINTO, CA 92582
Facility ID: 60000906
Status: No Further Action
Status Date: 09/24/2008
Site Code: 404801
Site Type: School Investigation
Site Type Detailed: School
Acres: 61
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 42
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.81317
Longitude: -117.0139
APN: 432-030-006, 432-030-010, 432030006, 432030010
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Under Investigation
Confirmed COC: NONE SPECIFIED
Potential Description: UE
Alias Name: 432-030-006
Alias Type: APN
Alias Name: 432-030-010
Alias Type: APN
Alias Name: 432030006
Alias Type: APN
Alias Name: 432030010
Alias Type: APN
Alias Name: 404801
Alias Type: Project Code (Site Code)
Alias Name: 60000906
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/18/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 06/09/2008

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPOSED HIGH SCHOOL AT THE VILLAGES OF SAN JACINTO (Continued)

S109149563

Comments: Signed agreement sent (FedEx) to District.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 07/02/2008
Comments: DTSC approved the Workplan for implementation provided DTSC comments are incorporated in future work/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/17/2008
Comments: DTSC approved the PEA with a No Further Action determination

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: PROPOSED HIGH SCHOOL AT THE VILLAGES OF SAN JACINTO
Address: RAMONA BOULEVARD/CAWSTON AVENUE
City,State,Zip: SAN JACINTO, CA 92582
Facility ID: 60000906
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 61
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404801
Assembly: 42
Senate: 23
Special Program Status: Not reported
Status: No Further Action
Status Date: 09/24/2008
Restricted Use: NO
Funding: School District
Latitude: 33.81317
Longitude: -117.0139
APN: 432-030-006, 432-030-010, 432030006, 432030010
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Under Investigation
Confirmed COC: NONE SPECIFIED
Potential Description: UE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPOSED HIGH SCHOOL AT THE VILLAGES OF SAN JACINTO (Continued)

S109149563

Alias Name: 432-030-006
Alias Type: APN
Alias Name: 432-030-010
Alias Type: APN
Alias Name: 432030006
Alias Type: APN
Alias Name: 432030010
Alias Type: APN
Alias Name: 404801
Alias Type: Project Code (Site Code)
Alias Name: 60000906
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/18/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 06/09/2008
Comments: Signed agreement sent (FedEx) to District.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 07/02/2008
Comments: DTSC approved the Workplan for implementation provided DTSC comments are incorporated in future work/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/17/2008
Comments: DTSC approved the PEA with a No Further Action determination

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

B8 **PROPOSED HIGH SCHOOL**
RAMONA BOULEVARD/CAWSTON AVENUE
< 1/8 **SAN JACINTO, CA 92582**
1 ft.

CERS **S123510253**
N/A

Site 2 of 2 in cluster B

Relative:
Higher
Actual:
1463 ft.

CERS:
Name: PROPOSED HIGH SCHOOL
Address: RAMONA BOULEVARD/CAWSTON AVENUE
City,State,Zip: SAN JACINTO, CA 92582
Site ID: 341804
CERS ID: 60000906
CERS Description: School Investigation

Affiliation:
Affiliation Type Desc: Lead Project Manager
Entity Name: IVY OSORNIO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Supervisor
Entity Name: SHAHIR HADDAD
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

C9 **SAN JACINTO VALLEY REGIONAL WATER RECLAMATION FACI**
700 N SANDERSON AVE
< 1/8 **SAN JACINTO, CA 92582**
1 ft.

FINDS **1026422765**
N/A

Site 1 of 2 in cluster C

Relative:
Higher
Actual:
1494 ft.

FINDS:
Registry ID: 110070745901

Click Here:

Environmental Interest/Information System:
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

C10 **SAN JACINTO VALLEY REGIONAL WATER RECLAMATION FACI** **RCRA-VSQQ** **1016954557**
700 N SANDERSON AVE
< 1/8 **SAN JACINTO, CA 92582** **CAL000344571**
1 ft.

Site 2 of 2 in cluster C

Relative:
Higher
Actual:
1494 ft.

RCRA-VSQQ:
 Date Form Received by Agency: 2014-03-01 00:00:00.0
 Handler Name: SAN JACINTO VALLEY REGIONAL WATER RECLAMATION FACILITY
 Handler Address: 700 N SANDERSON AVE
 Handler City,State,Zip: SAN JACINTO, CA 92582
 EPA ID: CAL000344571
 Contact Name: ALFRED JAVIER
 Contact Address: TRUMBLE RD
 Contact City,State,Zip: PERRIS, CA 92572
 Contact Telephone: 951-928-3777
 Contact Fax: 951-928-6177
 Contact Email: JAVIERA@EMWD.ORG
 Contact Title: ENVIRON. SERVICES MGR
 EPA Region: 09
 Land Type: Municipal
 Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
 Non-Notifier: Not reported
 Biennial Report Cycle: 2013
 Accessibility: Not reported
 Active Site Indicator: Handler Activities
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: PO BOX 8300
 Mailing City,State,Zip: PERRIS, CA 92572-8300
 Owner Name: EASTERN MUNICIPAL WATER DISTRICT
 Owner Type: Municipal
 Operator Name: EASTERN MUNICIPAL WATER DISTRICT
 Operator Type: Municipal
 Short-Term Generator Activity: Yes
 Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility Activity: No
 Recycler Activity with Storage: No
 Small Quantity On-Site Burner Exemption: No
 Smelting Melting and Refining Furnace Exemption: No
 Underground Injection Control: No
 Off-Site Waste Receipt: No
 Universal Waste Indicator: No
 Universal Waste Destination Facility: No
 Federal Universal Waste: No
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported
 Active Site Converter Treatment storage and Disposal Facility: Not reported
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported
 Active Site State-Reg Handler: ---
 Federal Facility Indicator: Not reported
 Hazardous Secondary Material Indicator: N
 Sub-Part K Indicator: Not reported
 Commercial TSD Indicator: No
 Treatment Storage and Disposal Type: Not reported
 2018 GPRA Permit Baseline: Not on the Baseline
 2018 GPRA Renewals Baseline: Not on the Baseline
 Permit Renewals Workload Universe: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SAN JACINTO VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1016954557

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2014-11-20 17:13:31.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2013

[Click Here for Biennial Reporting System Data:](#)

Hazardous Waste Summary:

Waste Code: D002
Waste Description: CORROSIVE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EASTERN MUNICIPAL WATER DISTRICT
Legal Status:	Municipal
Date Became Current:	1964-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2270 TRUMBLE RD
Owner/Operator City,State,Zip:	PERRIS, CA 92572
Owner/Operator Telephone:	951-928-3777
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	EASTERN MUNICIPAL WATER DISTRICT
Legal Status:	Municipal

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SAN JACINTO VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1016954557

Date Became Current: 1964-01-01 00:00:00.
 Date Ended Current: Not reported
 Owner/Operator Address: Not reported
 Owner/Operator City,State,Zip: Not reported
 Owner/Operator Telephone: Not reported
 Owner/Operator Telephone Ext: Not reported
 Owner/Operator Fax: Not reported
 Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2014-03-01 00:00:00.0
 Handler Name: SAN JACINTO VALLEY REGIONAL WATER RECLAMATION FACILITY
 Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
 State District Owner: Not reported
 Large Quantity Handler of Universal Waste: No
 Recognized Trader Importer: No
 Recognized Trader Exporter: No
 Spent Lead Acid Battery Importer: No
 Spent Lead Acid Battery Exporter: No
 Current Record: Yes
 Non Storage Recycler Activity: Not reported
 Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 22132
 NAICS Description: SEWAGE TREATMENT FACILITIES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

D11
 SSE
 1/8-1/4
 0.146 mi.
 769 ft.

EMWD SAN JACINTO VALLEY RWRF
770 N SANDERSON AVE
SAN JACINTO, CA 92582
 Site 1 of 3 in cluster D

CERS HAZ WASTE S105672014
CERS TANKS N/A
 CHMIRS
 NPDES
 CIWQS
 CERS

Relative:
 Higher
 Actual:
 1497 ft.

CERS HAZ WASTE:
 Name: EMWD SAN JACINTO VALLEY RWRF
 Address: 770 N SANDERSON AVE
 City,State,Zip: SAN JACINTO, CA 92582
 Site ID: 114512
 CERS ID: 10322812
 CERS Description: Hazardous Waste Generator

CERS TANKS:

Name: EMWD SAN JACINTO VALLEY RWRF
 Address: 770 N SANDERSON AVE
 City,State,Zip: SAN JACINTO, CA 92582
 Site ID: 114512
 CERS ID: 10322812

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EMWD SAN JACINTO VALLEY RWRF (Continued)

S105672014

CERS Description: Aboveground Petroleum Storage

CHMIRS:

Name: Not reported
Address: 770 N SANDERSON AV
City,State,Zip: SAN JACINTO, CA 92582
OES Incident Number: 1-5245
OES notification: 09/14/2001
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Reporting Party
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 2001
Agency: Eastern Municipal Water Dist.
Incident Date: 8/16/2001 12:00:00 AM
Admin Agency: Not reported
Amount: Not reported
Contained: Yes
Site Type: Treatment/Sewage Facility
E Date: Not reported
Substance: Ferric Chloride
Gallons: 980
Unknown: 0.000000
Substance #2: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EMWD SAN JACINTO VALLEY RWRF (Continued)

S105672014

Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The material is corrosive and it ate through a brass fitting in a pipe causing the release.

NPDES:

Name:	SAN JACINTO VALLEY RWRF SOLAR PROJECT
Address:	770 N SANDERSON AVE
City,State,Zip:	SAN JACINTO, CA 92583
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 33C386898
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	05/05/2021
Operator Name:	Eastern Municipal Water District
Operator Address:	2270 Trumble Road
Operator City:	Perris
Operator State:	California
Operator Zip:	92572

Name:	SAN JACINTO VALLEY RWRF SOLAR PROJECT
Address:	770 N SANDERSON AVE
City,State,Zip:	SAN JACINTO, CA 92583
Facility Status:	Active
NPDES Number:	CAS000002
Region:	8
Agency Number:	0
Regulatory Measure ID:	508595
Place ID:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EMWD SAN JACINTO VALLEY RWRP (Continued)

S105672014

Order Number: 2009-0009-DWQ
WDID: 8 33C386898
Regulatory Measure Type: Enrollee
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 05/14/2019
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 2270 Trumble Road
Discharge Name: Eastern Municipal Water District
Discharge City: Perris
Discharge State: California
Discharge Zip: 92572
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

CIWQS:

Name: SAN JACINTO VALLEY RWRP SOLAR PROJECT
Address: 770 N SANDERSON AVE
City,State,Zip: SAN JACINTO, CA 92583
Agency: Eastern Municipal Water District
Agency Address: 2270 Trumble Road PO Box 8300, Perris, CA 92572
Place/Project Type: Construction - Utility: Solar Pad
SIC/NAICS: Not reported
Region: 8
Program: CONSTW
Regulatory Measure Status: Active
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 8 33C386898
NPDES Number: CAS000002
Adoption Date: 01/01/1900
Effective Date: 05/14/2019
Termination Date: 01/01/1900
Expiration/Review Date: 01/01/1900
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 1
Violations within 5 years: 1
Latitude: 33.80051
Longitude: -117.02382

CERS:

Name: EMWD SAN JACINTO VALLEY RWRP
Address: 770 N SANDERSON AVE
City,State,Zip: SAN JACINTO, CA 92582
Site ID: 114512
CERS ID: 10322812
CERS Description: Chemical Storage Facilities

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EMWD SAN JACINTO VALLEY RWRF (Continued)

S105672014

Violations:

Site ID: 114512
Site Name: EMWD San Jacinto Valley RWRF
Violation Date: 11-06-2018
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: Returned to compliance on 11/06/2018. OBSERVATION: No manifests available during inspection. CORRECTIVE ACTION: Owner/operator shall obtain all manifests for hazardous waste shipments which occurred in the past 3 years. Manifests shall be made available for inspection.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-14-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-19-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-23-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-02-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EMWD SAN JACINTO VALLEY RWRF (Continued)

S105672014

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-02-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-06-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: NOTE: Old Blower Building contains spent absorbent and empty battery cases; owner/operator shall remove spend absorbent and either reuse batter cases, label as empty, or remove
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-06-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-24-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-24-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-24-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EMWD SAN JACINTO VALLEY RWRF (Continued)

S105672014

Affiliation:

Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92503
Affiliation Phone: (951) 358-5055

Affiliation Type Desc: Document Preparer
Entity Name: Dotty Torres
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Doug Edwards
Entity Title: Environmental Services Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Eastern Municipal Water District
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Eastern Municipal Water District
Entity Title: Not reported
Affiliation Address: PO Box 8300
Affiliation City: Perris
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92572
Affiliation Phone: (951) 928-3777

Affiliation Type Desc: Operator
Entity Name: DOUG EDWARDS
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

EMWD SAN JACINTO VALLEY RWRF (Continued)

S105672014

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(951) 928-3777
Affiliation Type Desc:	Environmental Contact
Entity Name:	DOUG EDWARDS
Entity Title:	Not reported
Affiliation Address:	P.O. Box 8300
Affiliation City:	Perris
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92572-8300
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO Box 8300
Affiliation City:	Perris
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92572
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	EMWD
Entity Title:	Not reported
Affiliation Address:	PO Box 8300
Affiliation City:	Perris
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92572
Affiliation Phone:	(951) 928-3777

D12
SSE
1/8-1/4
0.146 mi.
769 ft.

HEMET SAN JACINTO REG WATER
770 N SANDERSON AVE
SAN JACINTO, CA
Site 2 of 3 in cluster D

AST A100226065
N/A

Relative:
Higher
Actual:
1497 ft.

AST:	
Name:	HEMET SAN JACINTO REG WATER
Address:	770 N SANDERSON AVE
City/Zip:	SAN JACINTO,
Certified Unified Program Agencies:	Riverside
Owner:	EASTERN MUNICIPAL WATER DIST
Total Gallons:	3,720
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HEMET SAN JACINTO REG WATER (Continued)

A100226065

Operator Phone: Not reported
 Owner Phone: Not reported
 Owner Mail Address: Not reported
 Owner State: Not reported
 Owner Zip Code: Not reported
 Owner Country: Not reported
 Property Owner Name: Not reported
 Property Owner Phone: Not reported
 Property Owner Mailing Address: Not reported
 Property Owner City: Not reported
 Property Owner Stat : Not reported
 Property Owner Zip Code: Not reported
 Property Owner Country: Not reported
 EPAID: Not reported

D13
SSE
1/8-1/4
0.146 mi.
769 ft.

SAN JACINTO VALLEY RWRF
770 NORTH SANDERSON
SAN JACINTO, CA 92583

RCRA-LQG 1007200253
CAL000089262

Site 3 of 3 in cluster D

Relative:
Higher

RCRA-LQG:

Actual:
1497 ft.

Date Form Received by Agency: 2012-03-19 00:00:00.0
 Handler Name: SAN JACINTO VALLEY RWRF
 Handler Address: 770 NORTH SANDERSON
 Handler City,State,Zip: SAN JACINTO, CA 92583
 EPA ID: CAL000089262
 Contact Name: ALFRED JAVIER
 Contact Address: TRUMBLE ROAD
 Contact City,State,Zip: PERRIS, CA 92572
 Contact Telephone: 951-928-3777 6327
 Contact Fax: 951-928-6177
 Contact Email: JAVIERA@EMWD.ORG
 Contact Title: MGR, ENVIRONMENTAL SRVCS
 EPA Region: 09
 Land Type: Municipal
 Federal Waste Generator Description: Large Quantity Generator
 Non-Notifier: Not reported
 Biennial Report Cycle: 2011
 Accessibility: Not reported
 Active Site Indicator: Handler Activities
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: TRUMBLE ROAD
 Mailing City,State,Zip: PERRIS, CA 92572
 Owner Name: EASTERN MUNICIPAL WATER DISTRICT
 Owner Type: Municipal
 Operator Name: EASTERN MUNICIPAL WATER DISTRICT
 Operator Type: Municipal
 Short-Term Generator Activity: Yes
 Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility Activity: No
 Recycler Activity with Storage: No
 Small Quantity On-Site Burner Exemption: No
 Smelting Melting and Refining Furnace Exemption: No
 Underground Injection Control: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SAN JACINTO VALLEY RWRf (Continued)

1007200253

Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRa Permit Baseline:	Not on the Baseline
2018 GPRa Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRa Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDf Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2012-11-06 13:57:46.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2011

[Click Here for Biennial Reporting System Data:](#)

Year: 2007

[Click Here for Biennial Reporting System Data:](#)

Year: 2001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SAN JACINTO VALLEY RWRf (Continued)

1007200253

[Click Here for Biennial Reporting System Data:](#)

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D008
Waste Description:	LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EASTERN MUNICIPAL WATER DISTRICT
Legal Status:	Municipal
Date Became Current:	1964-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2270 TRUMBLE ROAD
Owner/Operator City,State,Zip:	PERRIS, CA 92572
Owner/Operator Telephone:	951-928-3777
Owner/Operator Telephone Ext:	6327
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EASTERN MUNICIPAL WATER DISTRICT
Legal Status:	Municipal
Date Became Current:	1964-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 8300
Owner/Operator City,State,Zip:	PERRIS, CA 92572
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	EASTERN MUNICIPAL WATER DISTRICT
Legal Status:	Municipal
Date Became Current:	1964-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	EASTERN MUNICIPAL WATER DISTRICT
Legal Status:	Municipal
Date Became Current:	1964-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2270 TRUMBLE ROAD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SAN JACINTO VALLEY RWRf (Continued)

1007200253

Owner/Operator City,State,Zip: PERRIS, CA 92572
Owner/Operator Telephone: 951-928-3777
Owner/Operator Telephone Ext: 6327
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2012-03-19 00:00:00.0
Handler Name: SAN JACINTO VALLEY RWRf
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2002-02-20 00:00:00.0
Handler Name: HEMET SAN JACINTO REGIONAL WATER RECLAMA
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2002-02-20 00:00:00.0
Handler Name: HEMET SAN JACINTO REGIONAL WATER RECLAMA
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2008-02-27 00:00:00.0
Handler Name: EMWD - SAN JACINTO VALLEY RWRf
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SAN JACINTO VALLEY RWRF (Continued)

1007200253

Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 22132
NAICS Description: SEWAGE TREATMENT FACILITIES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SAN JACINTO	S121643623	HEMET/SAN JACINTO WWRF	770 SANDERSON	92583	CIWQS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: N/A
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: N/A
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/30/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: 800-424-9346
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/22/2021	Source: EPA
Date Data Arrived at EDR: 03/23/2021	Telephone: 800-424-9346
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/09/2021	Source: Department of the Navy
Date Data Arrived at EDR: 02/11/2021	Telephone: 843-820-7326
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 05/05/2021
Number of Days to Update: 39	Next Scheduled EDR Contact: 08/23/2021
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/23/2021	Telephone: 703-603-0695
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 05/21/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/23/2021	Telephone: 703-603-0695
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 05/21/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/22/2021

Date Data Arrived at EDR: 03/24/2021

Date Made Active in Reports: 06/17/2021

Number of Days to Update: 85

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 06/17/2021

Next Scheduled EDR Contact: 10/04/2021

Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity.

These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/23/2021

Date Data Arrived at EDR: 04/23/2021

Date Made Active in Reports: 07/12/2021

Number of Days to Update: 80

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 07/22/2021

Next Scheduled EDR Contact: 11/08/2021

Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/23/2021

Date Data Arrived at EDR: 04/23/2021

Date Made Active in Reports: 07/12/2021

Number of Days to Update: 80

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 07/22/2021

Next Scheduled EDR Contact: 11/08/2021

Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/10/2021

Date Data Arrived at EDR: 05/11/2021

Date Made Active in Reports: 07/27/2021

Number of Days to Update: 77

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320

Last EDR Contact: 05/11/2021

Next Scheduled EDR Contact: 08/23/2021

Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/01/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2020	Telephone: 415-972-3372
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/09/2020	Source: EPA Region 8
Date Data Arrived at EDR: 12/16/2020	Telephone: 303-312-6271
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/30/2020	Source: EPA Region 7
Date Data Arrived at EDR: 12/22/2020	Telephone: 913-551-7003
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/02/2020	Source: EPA Region 4
Date Data Arrived at EDR: 12/18/2020	Telephone: 404-562-8677
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2020	Source: EPA Region 1
Date Data Arrived at EDR: 12/16/2020	Telephone: 617-918-1313
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2020	Telephone: 214-665-6597
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 06/11/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: 866-480-1028
Date Made Active in Reports: 03/30/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/05/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 04/01/2021
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/02/2020	Source: EPA Region 4
Date Data Arrived at EDR: 12/18/2020	Telephone: 404-562-9424
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/12/2020	Source: EPA Region 10
Date Data Arrived at EDR: 12/16/2020	Telephone: 206-553-2857
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2020	Source: EPA, Region 1
Date Data Arrived at EDR: 12/16/2020	Telephone: 617-918-1313
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/30/2020	Source: EPA Region 7
Date Data Arrived at EDR: 12/22/2020	Telephone: 913-551-7003
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/01/2020	Source: EPA Region 9
Date Data Arrived at EDR: 12/16/2020	Telephone: 415-972-3368
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 06/15/2021
Number of Days to Update: 142	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: No Update Planned

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfields Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/15/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/07/2020	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 12/09/2020	Telephone: 202-307-1000
Date Made Active in Reports: 03/02/2021	Last EDR Contact: 05/22/2021
Number of Days to Update: 83	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/23/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/23/2021	Telephone: 916-323-3400
Date Made Active in Reports: 07/12/2021	Last EDR Contact: 07/22/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/20/2021	Telephone: 916-255-6504
Date Made Active in Reports: 04/08/2021	Last EDR Contact: 07/13/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 01/26/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/27/2009
	Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/19/2021	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 04/20/2021	Telephone: 916-323-2514
Date Made Active in Reports: 07/07/2021	Last EDR Contact: 07/15/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/01/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 03/03/2021	Telephone: 916-323-3400
Date Made Active in Reports: 05/20/2021	Last EDR Contact: 05/25/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/27/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/03/2021	Telephone: 202-564-6023
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/02/2021	Source: DTSC and SWRCB
Date Data Arrived at EDR: 03/03/2021	Telephone: 916-323-3400
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 05/28/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/22/2021	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/24/2021	Telephone: 202-366-4555
Date Made Active in Reports: 06/17/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/04/2021	Source: Office of Emergency Services
Date Data Arrived at EDR: 04/20/2021	Telephone: 916-845-8400
Date Made Active in Reports: 07/07/2021	Last EDR Contact: 07/15/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021	Source: State Water Quality Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: 866-480-1028
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: 866-480-1028
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 47

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 07/26/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/15/2021
	Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 05/07/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 08/16/2021
	Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/17/2020	Telephone: 202-260-5521
Date Made Active in Reports: 09/10/2020	Last EDR Contact: 06/17/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/27/2021
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018	Source: EPA
Date Data Arrived at EDR: 08/14/2020	Telephone: 202-566-0250
Date Made Active in Reports: 11/04/2020	Last EDR Contact: 05/17/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 04/19/2021	Source: EPA
Date Data Arrived at EDR: 04/20/2021	Telephone: 202-564-4203
Date Made Active in Reports: 07/16/2021	Last EDR Contact: 07/19/2021
Number of Days to Update: 87	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: 703-416-0223
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 01/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/18/2021	Telephone: 202-564-8600
Date Made Active in Reports: 05/11/2021	Last EDR Contact: 07/14/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020	Source: EPA
Date Data Arrived at EDR: 01/14/2021	Telephone: 202-564-6023
Date Made Active in Reports: 03/05/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 50	Next Scheduled EDR Contact: 08/16/2021
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020	Source: EPA
Date Data Arrived at EDR: 01/08/2021	Telephone: 202-566-0500
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 07/09/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/29/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: No Update Planned

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/08/2021	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/11/2021	Telephone: 301-415-7169
Date Made Active in Reports: 05/11/2021	Last EDR Contact: 07/14/2021
Number of Days to Update: 61	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019	Source: Department of Energy
Date Data Arrived at EDR: 12/01/2020	Telephone: 202-586-8719
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 05/27/2021
Number of Days to Update: 70	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 05/27/2021
Number of Days to Update: 251	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/07/2021
Number of Days to Update: 96	Next Scheduled EDR Contact: 08/16/2021
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 06/22/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: No Update Planned

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 01/28/2020	Telephone: 202-366-4595
Date Made Active in Reports: 04/17/2020	Last EDR Contact: 07/23/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 2

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: No Update Planned

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: No Update Planned

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 05/27/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 14

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 05/27/2021
Number of Days to Update: 97	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/23/2021	Source: Department of Interior
Date Data Arrived at EDR: 03/25/2021	Telephone: 202-208-2609
Date Made Active in Reports: 06/17/2021	Last EDR Contact: 06/14/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/03/2021	Source: EPA
Date Data Arrived at EDR: 03/03/2021	Telephone: (415) 947-8000
Date Made Active in Reports: 04/05/2021	Last EDR Contact: 05/18/2021
Number of Days to Update: 33	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 11/03/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/17/2020	Telephone: 202-564-0527
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 05/21/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/04/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/06/2021	Telephone: 202-564-2280
Date Made Active in Reports: 06/25/2021	Last EDR Contact: 07/01/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/17/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 79

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 02/23/2021
Date Data Arrived at EDR: 02/25/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 83

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/26/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/04/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 77

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/16/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/13/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 74

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/14/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/14/2021	Telephone: 877-786-9427
Date Made Active in Reports: 07/27/2021	Last EDR Contact: 05/14/2021
Number of Days to Update: 74	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/14/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/14/2021	Telephone: 916-323-3400
Date Made Active in Reports: 07/27/2021	Last EDR Contact: 05/14/2021
Number of Days to Update: 74	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/05/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/06/2021	Telephone: 916-440-7145
Date Made Active in Reports: 06/23/2021	Last EDR Contact: 07/01/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/08/2021	Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-322-1080
Date Made Active in Reports: 03/30/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 01/29/2021	Source: Department of Public Health
Date Data Arrived at EDR: 03/03/2021	Telephone: 916-558-1784
Date Made Active in Reports: 05/20/2021	Last EDR Contact: 05/28/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/10/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/11/2021	Telephone: 916-445-9379
Date Made Active in Reports: 07/27/2021	Last EDR Contact: 05/11/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/23/2021
	Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/02/2021	Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 03/03/2021	Telephone: 916-445-4038
Date Made Active in Reports: 05/20/2021	Last EDR Contact: 05/28/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 03/09/2021	Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-323-3836
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 06/04/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/12/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/16/2021	Telephone: 916-445-3846
Date Made Active in Reports: 06/01/2021	Last EDR Contact: 06/08/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/27/2021
	Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 03/08/2021	Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-445-2408
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 03/08/2021	Source: State Water Resource Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: 866-480-1028
Date Made Active in Reports: 03/30/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 05/19/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/09/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 11

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 03/17/2021
Date Data Arrived at EDR: 03/18/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 7

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing

Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing

Cupa Facility Listing

Date of Government Version: 06/15/2021
Date Data Arrived at EDR: 06/16/2021
Date Made Active in Reports: 07/02/2021
Number of Days to Update: 16

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

COLUSA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA COLUSA: CUPA Facility List Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 81

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List Cupa Facility list

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/14/2021
Date Data Arrived at EDR: 01/15/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 80

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Semi-Annually

GLENN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 2

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/10/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 04/22/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List

Cupa facility list

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 75

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List

Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/13/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 76

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/12/2021
Date Data Arrived at EDR: 04/13/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 76

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory

A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 5

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 07/12/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 06/17/2021
Number of Days to Update: 58	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/02/2021	Source: Community Health Services
Date Data Arrived at EDR: 04/16/2021	Telephone: 323-890-7806
Date Made Active in Reports: 07/06/2021	Last EDR Contact: 07/09/2021
Number of Days to Update: 81	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/19/2017	Telephone: 310-524-2236
Date Made Active in Reports: 05/10/2017	Last EDR Contact: 07/06/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 04/23/2019	Telephone: 562-570-2563
Date Made Active in Reports: 06/27/2019	Last EDR Contact: 07/13/2021
Number of Days to Update: 65	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/02/2021	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 04/28/2021	Telephone: 310-618-2973
Date Made Active in Reports: 07/13/2021	Last EDR Contact: 07/13/2021
Number of Days to Update: 76	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020	Source: Madera County Environmental Health
Date Data Arrived at EDR: 08/12/2020	Telephone: 559-675-7823
Date Made Active in Reports: 10/23/2020	Last EDR Contact: 05/12/2021
Number of Days to Update: 72	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Varies

MARIN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: No Update Planned

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 04/07/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/13/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 73

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 06/02/2021
Next Scheduled EDR Contact: 09/06/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/23/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 1

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

NAPA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST NAPA: Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List

CUPA facility list.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 07/15/2021
Number of Days to Update: 77

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 9

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/29/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MS PLACER: Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List

Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 85

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA SAN BENITO: CUPA Facility List Cupa facility list

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 4

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 06/07/2021
Number of Days to Update: 19

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/21/2021
Number of Days to Update: 79

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing Cupa facilities

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: No Update Planned

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List Cupa Facility List.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 3

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/06/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BI SAN MATEO: Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/02/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: No Update Planned

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/26/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 82

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: No Update Planned

UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 77

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 09/12/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List Cupa Facility list

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/28/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/01/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List

Cupa facility list

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: Stanislaus County Department of Environmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List

Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List

Cupa facility list

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

TULARE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA TULARE: CUPA Facility List Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 81

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/21/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 2

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST VENTURA: Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 03/26/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 20

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/28/2021
Number of Days to Update: 78

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/13/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

VILLAGES OF SAN JACINTO
870 & 1380 N SANDERSON AVENUE
SAN JACINTO, CA 92582

TARGET PROPERTY COORDINATES

Latitude (North):	33.813328 - 33° 48' 47.98"
Longitude (West):	117.020638 - 117° 1' 14.30"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	498089.9
UTM Y (Meters):	3741264.8
Elevation:	1460 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640936 LAKEVIEW, CA
Version Date:	2012

East Map:	5641216 SAN JACINTO, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

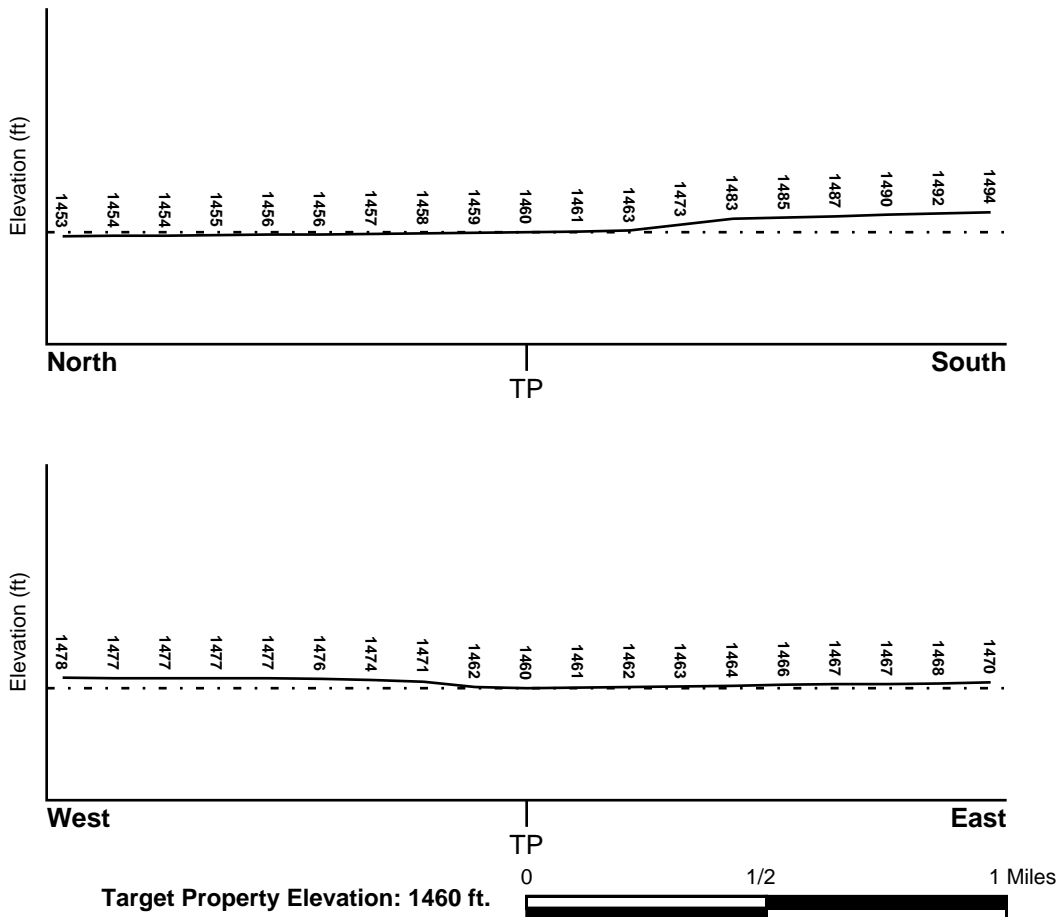
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06065C1460H	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06065C1470G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
LAKEVIEW	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

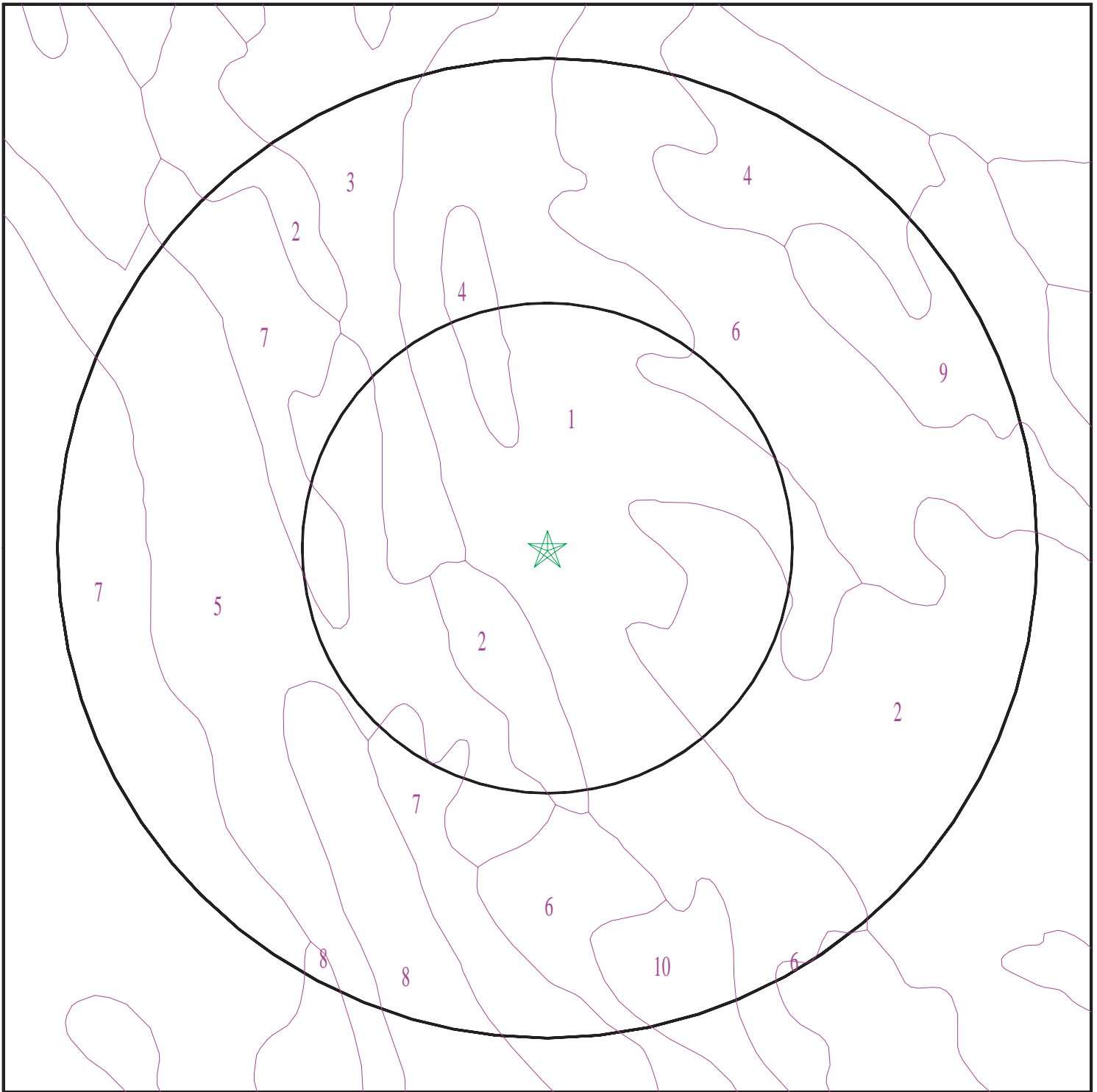
Era:	Cenozoic
System:	Tertiary
Series:	Pliocene
Code:	Tpc (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Continental Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 6599939.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Villages of San Jacinto
ADDRESS: 870 & 1380 N Sanderson Avenue
San Jacinto CA 92582
LAT/LONG: 33.813328 / 117.020638

CLIENT: Roux Associates
CONTACT: Connor Moore
INQUIRY #: 6599939.2s
DATE: July 30, 2021 2:03 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: CHINO

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
2	14 inches	27 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
3	27 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: DELLO

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4
2	7 inches	61 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4

Soil Map ID: 3

Soil Component Name: GRANGEVILLE

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9 Min: 7.4
2	16 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9 Min: 7.4

Soil Map ID: 4

Soil Component Name: GRANGEVILLE

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9 Min: 7.4
2	16 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9 Min: 7.4

Soil Map ID: 5

Soil Component Name: TRAVER

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9.6 Min: 8.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	12 inches	38 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9.6 Min: 8.4
3	38 inches	59 inches	stratified fine sandy loam to silty clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9.6 Min: 8.4

Soil Map ID: 6

Soil Component Name: DELLO

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	14 inches	61 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4

Soil Map ID: 7

Soil Component Name: TRAVER

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	20 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9.6 Min: 8.4
2	20 inches	59 inches	stratified fine sandy loam to silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9.6 Min: 8.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 8

Soil Component Name: TRAVER

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	20 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9.6 Min: 8.4
2	20 inches	59 inches	stratified fine sandy loam to silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9.6 Min: 8.4

Soil Map ID: 9

Soil Component Name: GRANGEVILLE

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
2	16 inches	59 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

Soil Map ID: 10

Soil Component Name: GRANGEVILLE

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	35 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 9 Min: 7.4
2	35 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 9 Min: 7.4

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A6	USGS40000138346	1/2 - 1 Mile SW
A7	USGS40000138347	1/2 - 1 Mile SW
A8	USGS40000138348	1/2 - 1 Mile SW
A9	USGS40000138339	1/2 - 1 Mile SW
A10	USGS40000138340	1/2 - 1 Mile SW
A11	USGS40000138338	1/2 - 1 Mile SW
A12	USGS40000138336	1/2 - 1 Mile SW
A13	USGS40000138337	1/2 - 1 Mile SW
A14	USGS40000138344	1/2 - 1 Mile SW
A15	USGS40000138345	1/2 - 1 Mile SW
A16	USGS40000138343	1/2 - 1 Mile SW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A17	USGS40000138341	1/2 - 1 Mile SW
A18	USGS40000138342	1/2 - 1 Mile SW
C36	USGS40000138390	1/2 - 1 Mile West
D41	USGS40000138379	1/2 - 1 Mile WSW
E42	USGS40000138353	1/2 - 1 Mile WSW
F47	USGS40000138457	1/2 - 1 Mile NNE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

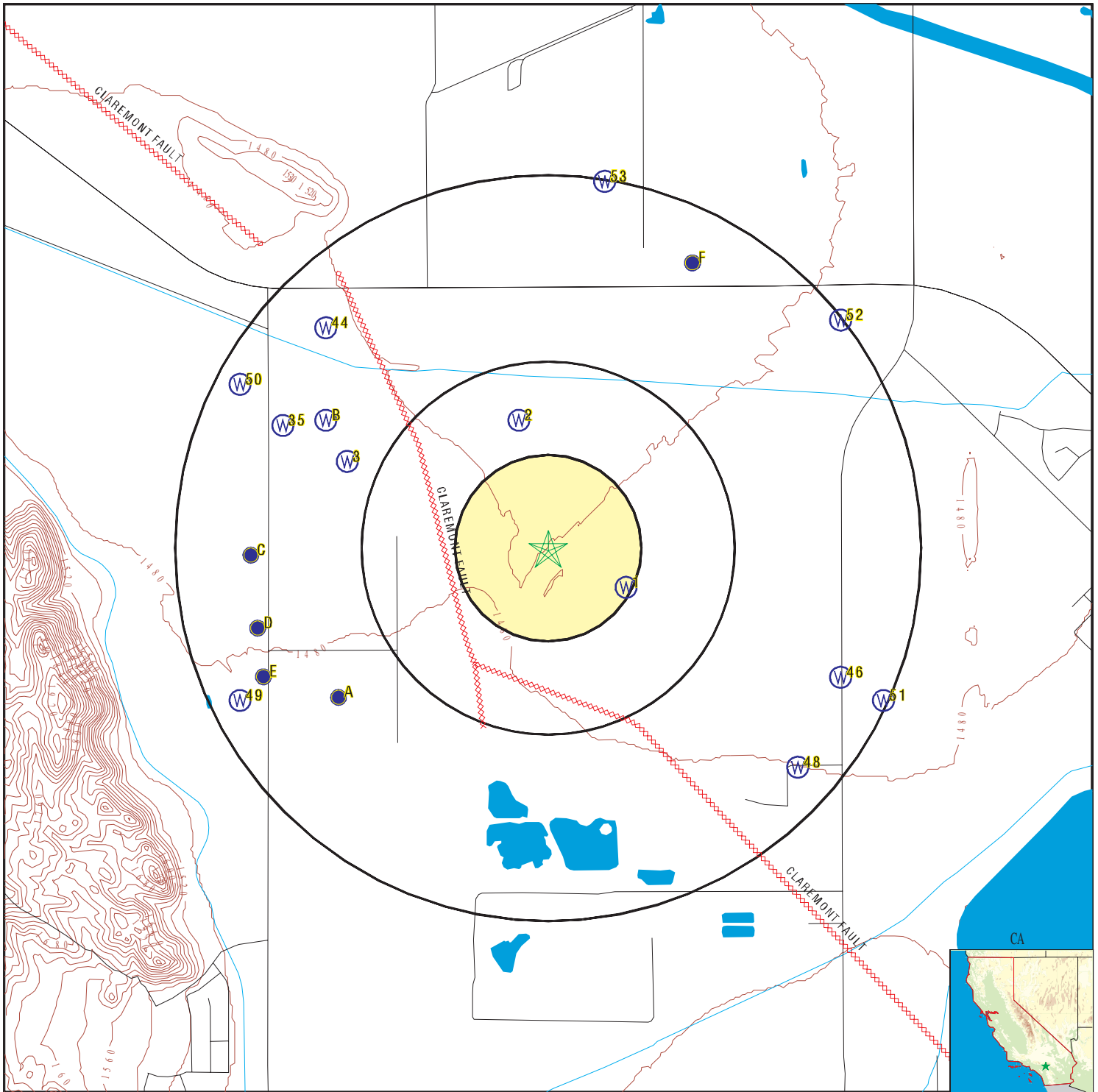
MAP ID	WELL ID	LOCATION FROM TP
1	CADWR9000005661	1/8 - 1/4 Mile ESE
2	CADWR0000027004	1/4 - 1/2 Mile NNW
3	CADWR9000005684	1/2 - 1 Mile WNW
A4	CADWR9000005638	1/2 - 1 Mile SW
A5	CADWR9000005639	1/2 - 1 Mile SW
A19	CAUSGSN00005970	1/2 - 1 Mile SW
A20	CAUSGSN00000340	1/2 - 1 Mile SW
A21	CAUSGSN00007245	1/2 - 1 Mile SW
A22	CAUSGSN00013418	1/2 - 1 Mile SW
A23	CAUSGSN00014244	1/2 - 1 Mile SW
A24	CAUSGSN00005327	1/2 - 1 Mile SW
A25	CAUSGSN00006048	1/2 - 1 Mile SW
A26	CAUSGSN00004745	1/2 - 1 Mile SW
B27	CADWR0000034615	1/2 - 1 Mile WNW
B28	CADWR0000025003	1/2 - 1 Mile WNW
A29	CADWR9000005636	1/2 - 1 Mile SW
A30	CADWR9000005637	1/2 - 1 Mile SW
A31	CADWR9000005635	1/2 - 1 Mile SW
A32	CADWR9000005633	1/2 - 1 Mile SW
A33	CADWR9000005634	1/2 - 1 Mile SW
C34	CADWR9000005665	1/2 - 1 Mile West
35	CADWR9000005690	1/2 - 1 Mile WNW
D37	4806	1/2 - 1 Mile WSW
D38	CADWR9000005647	1/2 - 1 Mile WSW
D39	CADWR9000005648	1/2 - 1 Mile WSW
C40	CADWR9000005666	1/2 - 1 Mile West
E43	CAUSGSN00013354	1/2 - 1 Mile WSW
44	CADWR0000010733	1/2 - 1 Mile NW
F45	CAUSGSN00013137	1/2 - 1 Mile NNE
46	CADWR9000005642	1/2 - 1 Mile ESE
48	CADWR9000005624	1/2 - 1 Mile SE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
49	CADWR0000022349	1/2 - 1 Mile WSW
50	CADWR9000005698	1/2 - 1 Mile WNW
51	CADWR0000025057	1/2 - 1 Mile ESE
52	CADWR9000005711	1/2 - 1 Mile NE
53	CADWR9000005744	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 6599939.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Villages of San Jacinto
 ADDRESS: 870 & 1380 N Sanderson Avenue
 San Jacinto CA 92582
 LAT/LONG: 33.813328 / 117.020638

CLIENT: Roux Associates
 CONTACT: Connor Moore
 INQUIRY #: 6599939.2s
 DATE: July 30, 2021 2:03 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
ESE
1/8 - 1/4 Mile
Higher **CA WELLS** **CADWR9000005661**

State Well #:	Not Reported	Station ID:	48160
Well Name:	EMWD10194	Basin Name:	San Jacinto
Well Use:	Observation	Well Type:	Single Well
Well Depth:	824	Well Completion Rpt #:	Not Reported

2
NNW
1/4 - 1/2 Mile
Lower **CA WELLS** **CADWR0000027004**

Well ID:	04S01W18Q001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	04S01W18Q001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=04S01W18Q001S&store_num=		
GeoTracker Data:	Not Reported		

3
WNW
1/2 - 1 Mile
Higher **CA WELLS** **CADWR9000005684**

State Well #:	Not Reported	Station ID:	48155
Well Name:	EMWD10234	Basin Name:	San Jacinto
Well Use:	Irrigation	Well Type:	Single Well
Well Depth:	574	Well Completion Rpt #:	Not Reported

A4
SW
1/2 - 1 Mile
Higher **CA WELLS** **CADWR9000005638**

State Well #:	Not Reported	Station ID:	48156
Well Name:	EMWD10236	Basin Name:	San Jacinto
Well Use:	Observation		
Well Type:	Part of a nested/multi-completion well		
Well Depth:	179	Well Completion Rpt #:	Not Reported

A5
SW
1/2 - 1 Mile
Higher **CA WELLS** **CADWR9000005639**

State Well #:	Not Reported	Station ID:	48157
Well Name:	EMWD12921	Basin Name:	San Jacinto
Well Use:	Observation		
Well Type:	Part of a nested/multi-completion well		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Depth: 261 Well Completion Rpt #: Not Reported

**A6
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138346

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W19M011SLYS		
Type:	Well: Test hole not completed as a well		
Description:	SHALLOW YELLOW LYSIMETER AT 15 FEET		
HUC:	18070202	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	15
Well Depth Units:	ft	Well Hole Depth:	27
Well Hole Depth Units:	ft		

**A7
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138347

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W19M012SLYS		
Type:	Well: Test hole not completed as a well		
Description:	SHALLOW GREEN LYSIMETER AT 10 FEET		
HUC:	18070202	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	10
Well Depth Units:	ft	Well Hole Depth:	27
Well Hole Depth Units:	ft		

**A8
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138348

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W19M013SLYS		
Type:	Well: Test hole not completed as a well		
Description:	SHALLOW BLUE LYSIMETER AT 5 FEET		
HUC:	18070202	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	5
Well Depth Units:	ft	Well Hole Depth:	27
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A9
SW
1/2 - 1 Mile
Higher

FED USGS USGS40000138339

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W19M003S	Type:	Well
Description:	INTER. WELL - GREEN	HUC:	18070202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19900814	Well Depth:	265
Well Depth Units:	ft	Well Hole Depth:	365
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	13	Level reading date:	1994-01-04
Feet below surface:	212.44	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1992-08-13	Feet below surface:	209.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-08-12	Feet below surface:	211.66
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	1992-07-09	Feet below surface:	212.61
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-06-12	Feet below surface:	206.51
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-02-26	Feet below surface:	199.54
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-01-29	Feet below surface:	200.13
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-01-28	Feet below surface:	200.16
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-12-24	Feet below surface:	203.47
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-08-15	Feet below surface:	203.44
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-05-15	Feet below surface:	200.64
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-04-17	Feet below surface:	195.54
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-03-29	Feet below surface:	196.21
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A10
SW
1/2 - 1 Mile
Higher

FED USGS USGS40000138340

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W19M004S	Type:	Well
Description:	INTER. WELL - BLUE	HUC:	18070202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19900814	Well Depth:	210
Well Depth Units:	ft	Well Hole Depth:	365
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	15	Level reading date:	1994-01-04
Feet below surface:	192.35	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1992-08-19	Feet below surface:	190.14
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-08-12	Feet below surface:	190.38
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	1992-07-09	Feet below surface:	190.58
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-06-12	Feet below surface:	189.06
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-02-26	Feet below surface:	187.69
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-01-29	Feet below surface:	187.88
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-01-28	Feet below surface:	187.84
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-12-24	Feet below surface:	188.47
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-08-15	Feet below surface:	187.47
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-06-14	Feet below surface:	186.72
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-05-14	Feet below surface:	185.54
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-05-03	Feet below surface:	189.60
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.

Level reading date:	1991-04-17	Feet below surface:	185.45
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-03-29	Feet below surface:	185.82
Feet to sea level:	Not Reported	Note:	Not Reported

**A11
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138338

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W19M002S	Type:	Well
Description:	INTER. WELL - YELLOW	HUC:	18070202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19900814	Well Depth:	310
Well Depth Units:	ft	Well Hole Depth:	365
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	14	Level reading date:	1994-01-04
Feet below surface:	212.79	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1992-08-13	Feet below surface:	212.15
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-08-12	Feet below surface:	214.11
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	1992-07-09	Feet below surface:	215.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-06-12	Feet below surface:	208.43
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-02-26	Feet below surface:	200.61
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-01-29	Feet below surface:	201.23
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-01-28	Feet below surface:	201.32
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-12-24	Feet below surface:	205.84
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-08-15	Feet below surface:	206.69
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-05-15	Feet below surface:	201.84
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-03-29	Feet below surface:	196.33
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1991-01-30	Feet below surface:	196.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-01-09	Feet below surface:	149.19
Feet to sea level:	Not Reported	Note:	Not Reported

**A12
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138336

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W19M005S	Type:	Well
Description:	SHALLOW WELL - WHITE	HUC:	18070202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19900814	Well Depth:	185
Well Depth Units:	ft	Well Hole Depth:	365
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	8	Level reading date:	1992-08-12
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was dry (no water level recorded).		

Level reading date:	1992-07-09	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		

Level reading date:	1992-02-26	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		

Level reading date:	1992-01-29	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		

Level reading date:	1991-12-24	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		

Level reading date:	1991-08-15	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		

Level reading date:	1991-05-15	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		

Level reading date:	1991-03-29	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A13
SW
1/2 - 1 Mile
Higher

FED USGS USGS40000138337

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W19M001S	Type:	Well
Description:	DEEP WELL - RED	HUC:	18070202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19900814	Well Depth:	344
Well Depth Units:	ft	Well Hole Depth:	365
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	14	Level reading date:	1994-01-04
Feet below surface:	215.81	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1992-08-13	Feet below surface:	213.56
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-08-12	Feet below surface:	216.05
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	1992-07-09	Feet below surface:	213.52
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-06-12	Feet below surface:	209.45
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-02-26	Feet below surface:	201.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-01-29	Feet below surface:	201.09
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1992-01-28	Feet below surface:	201.41
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-12-24	Feet below surface:	206.67
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-08-15	Feet below surface:	208.66
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-06-15	Feet below surface:	201.03
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-03-29	Feet below surface:	195.44
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-01-30	Feet below surface:	196.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-01-09	Feet below surface:	199.96
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet to sea level: Not Reported Note: Not Reported

**A14
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138344

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W19M009SLYS		
Type:	Well: Test hole not completed as a well		
Description:	DEEP BLUE LYSIMETER AT 50 FEET		
HUC:	18070202	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	50
Well Depth Units:	ft	Well Hole Depth:	155
Well Hole Depth Units:	ft		

**A15
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138345

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W19M010SLYS		
Type:	Well: Test hole not completed as a well		
Description:	SHALLOW RED LYSIMETER AT 25 FEET		
HUC:	18070202	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	25
Well Depth Units:	ft	Well Hole Depth:	27
Well Hole Depth Units:	ft		

**A16
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138343

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W19M008SLYS		
Type:	Well: Test hole not completed as a well		
Description:	DEEP GREEN LYSIMETER AT 75 FEET		
HUC:	18070202	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	75
Well Depth Units:	ft	Well Hole Depth:	155
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A17
SW
1/2 - 1 Mile
Higher

FED USGS USGS40000138341

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W19M006SLYS		
Type:	Well: Test hole not completed as a well		
Description:	DEEP RED LYSIMETER AT 150 FEET		
HUC:	18070202	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	150
Well Depth Units:	ft	Well Hole Depth:	155
Well Hole Depth Units:	ft		

A18
SW
1/2 - 1 Mile
Higher

FED USGS USGS40000138342

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W19M007SLYS		
Type:	Well: Test hole not completed as a well		
Description:	DEEP YELLOW LYSIMETER AT 100 FEET		
HUC:	18070202	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	100
Well Depth Units:	ft	Well Hole Depth:	155
Well Hole Depth Units:	ft		

A19
SW
1/2 - 1 Mile
Higher

CA WELLS CAUSGSN00005970

Well ID:	USGS-334827117014603	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334827117014603	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&amp_date=&global_id=&assigned_name=USGS-334827117014603&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A20
SW
1/2 - 1 Mile
Higher

CA WELLS CAUSGSN00000340

Well ID:	USGS-334827117014604	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334827117014604	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334827117014604&store_num=		
GeoTracker Data:	Not Reported		

A21
SW
1/2 - 1 Mile
Higher

CA WELLS CAUSGSN00007245

Well ID:	USGS-334827117014601	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334827117014601	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334827117014601&store_num=		
GeoTracker Data:	Not Reported		

A22
SW
1/2 - 1 Mile
Higher

CA WELLS CAUSGSN00013418

Well ID:	USGS-334827117014608	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334827117014608	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334827117014608&store_num=		
GeoTracker Data:	Not Reported		

A23
SW
1/2 - 1 Mile
Higher

CA WELLS CAUSGSN00014244

Well ID:	USGS-334827117014602	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334827117014602	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334827117014602&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A24
SW
1/2 - 1 Mile
Higher

CA WELLS CAUSGSN00005327

Well ID:	USGS-334827117014609	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334827117014609	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334827117014609&store_num=		
GeoTracker Data:	Not Reported		

A25
SW
1/2 - 1 Mile
Higher

CA WELLS CAUSGSN00006048

Well ID:	USGS-334827117014606	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334827117014606	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334827117014606&store_num=		
GeoTracker Data:	Not Reported		

A26
SW
1/2 - 1 Mile
Higher

CA WELLS CAUSGSN00004745

Well ID:	USGS-334827117014607	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334827117014607	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334827117014607&store_num=		
GeoTracker Data:	Not Reported		

B27
WNW
1/2 - 1 Mile
Higher

CA WELLS CADWR0000034615

Well ID:	04S01W18N002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	04S01W18N002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=04S01W18N002S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

B28
WNW
 1/2 - 1 Mile
 Higher

CA WELLS CADWR0000025003

Well ID:	04S01W18N001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	04S01W18N001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=04S01W18N001S&store_num=		
GeoTracker Data:	Not Reported		

A29
SW
 1/2 - 1 Mile
 Higher

CA WELLS CADWR9000005636

State Well #:	04S01W19M004S	Station ID:	6389
Well Name:	Not Reported	Basin Name:	San Jacinto
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

A30
SW
 1/2 - 1 Mile
 Higher

CA WELLS CADWR9000005637

State Well #:	04S01W19M005S	Station ID:	6390
Well Name:	Not Reported	Basin Name:	San Jacinto
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

A31
SW
 1/2 - 1 Mile
 Higher

CA WELLS CADWR9000005635

State Well #:	04S01W19M003S	Station ID:	28906
Well Name:	Not Reported	Basin Name:	San Jacinto
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

A32
SW
 1/2 - 1 Mile
 Higher

CA WELLS CADWR9000005633

State Well #:	04S01W19M001S	Station ID:	6387
Well Name:	Not Reported	Basin Name:	San Jacinto
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A33
SW
1/2 - 1 Mile
Higher

CA WELLS CADWR9000005634

State Well #:	04S01W19M002S	Station ID:	6388
Well Name:	Not Reported	Basin Name:	San Jacinto
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

C34
West
1/2 - 1 Mile
Higher

CA WELLS CADWR9000005665

State Well #:	Not Reported	Station ID:	48222
Well Name:	EMWD10387	Basin Name:	San Jacinto
Well Use:	Observation	Well Type:	Single Well
Well Depth:	544	Well Completion Rpt #:	Not Reported

35
WNW
1/2 - 1 Mile
Higher

CA WELLS CADWR9000005690

State Well #:	Not Reported	Station ID:	48154
Well Name:	EMWD10233	Basin Name:	San Jacinto
Well Use:	Irrigation	Well Type:	Single Well
Well Depth:	603	Well Completion Rpt #:	Not Reported

C36
West
1/2 - 1 Mile
Higher

FED USGS USGS40000138390

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070202
Monitor Location:	004S002W24A001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Aquifer Type:	Not Reported
Contrib Drainage Area:	Not Reported	Well Depth:	Not Reported
Aquifer:	California Coastal Basin aquifers	Well Hole Depth:	Not Reported
Formation Type:	Not Reported		
Construction Date:	Not Reported		
Well Depth Units:	Not Reported		
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	4	Level reading date:	1992-07-07
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

Level reading date:	1992-05-15	Feet below surface:	209.29
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1991-12-24	Feet below surface:	211.04
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1990-06-12	Feet below surface:	209.00
Feet to sea level:	Not Reported	Note:	Not Reported

**D37
WSW
1/2 - 1 Mile
Higher**

CA WELLS 4806

Seq:	4806	Prim sta c:	04S/02W-24H01 S
Frds no:	3310009027	County:	33
District:	14	User id:	WAT
System no:	3310009	Water type:	G
Source nam:	WELL 2421 DAIRY - ABANDONED	Station ty:	WELL/AMBNT
Latitude:	334836.0	Longitude:	1170159.0
Precision:	2	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310009	System nam:	Eastern Municipal Wd
Hqname:	EASTERN MUNICIPAL WATER DIST	Address:	P.O. Box 8300
City:	San Jacinto	State:	CA
Zip:	92381	Zip ext:	1300
Pop serv:	253705	Connection:	84839
Area serve:	HEMET-SAN JACINTO-SUN CITY		

**D38
WSW
1/2 - 1 Mile
Higher**

CA WELLS CADWR9000005647

State Well #:	04S02W24H001S	Station ID:	48223
Well Name:	EMWD10388	Basin Name:	San Jacinto
Well Use:	Observation	Well Type:	Single Well
Well Depth:	600	Well Completion Rpt #:	Not Reported

**D39
WSW
1/2 - 1 Mile
Higher**

CA WELLS CADWR9000005648

State Well #:	04S02W24H003S	Station ID:	48224
Well Name:	EMWD10389	Basin Name:	San Jacinto
Well Use:	Observation	Well Type:	Single Well
Well Depth:	800	Well Completion Rpt #:	395314

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

C40
West
1/2 - 1 Mile
Higher

CA WELLS CADWR9000005666

State Well #:	04S02W24A001S	Station ID:	6406
Well Name:	Not Reported	Basin Name:	San Jacinto
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

D41
WSW
1/2 - 1 Mile
Higher

FED USGS USGS40000138379

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S002W24H001S	Type:	Well
Description:	Not Reported	HUC:	18070202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	629
Well Depth Units:	ft	Well Hole Depth:	629
Well Hole Depth Units:	ft		

E42
WSW
1/2 - 1 Mile
Higher

FED USGS USGS40000138353

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S002W24J002S	Type:	Well
Description:	Not Reported	HUC:	18070202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	500
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

E43
WSW
1/2 - 1 Mile
Higher

CA WELLS CAUSGSN00013354

Well ID:	USGS-334831117020101	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334831117020101	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&amp_date=&global_id=&assigned_name=USGS-334831117020101&store_num=		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

GeoTracker Data: Not Reported

**44
NW
1/2 - 1 Mile
Higher**

CA WELLS CADWR0000010733

Well ID:	04S01W18M002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	04S01W18M002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=04S01W18M002S&store_num=		
GeoTracker Data:	Not Reported		

**F45
NNE
1/2 - 1 Mile
Lower**

CA WELLS CAUSGSN00013137

Well ID:	USGS-334928117004701	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334928117004701	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334928117004701&store_num=		
GeoTracker Data:	Not Reported		

**46
ESE
1/2 - 1 Mile
Higher**

CA WELLS CADWR9000005642

State Well #:	Not Reported	Station ID:	48161
Well Name:	EMWD10243	Basin Name:	San Jacinto
Well Use:	Observation	Well Type:	Single Well
Well Depth:	824	Well Completion Rpt #:	Not Reported

**F47
NNE
1/2 - 1 Mile
Lower**

FED USGS USGS40000138457

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S001W17E001S	HUC:	18070202
Description:	Not Reported	Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Contrib Drainage Area:	Not Reported		
Aquifer:	California Coastal Basin aquifers	Aquifer Type:	Not Reported
Formation Type:	Not Reported	Well Depth:	Not Reported
Construction Date:	Not Reported	Well Hole Depth:	Not Reported
Well Depth Units:	Not Reported		
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

48
SE
1/2 - 1 Mile
Higher

CA WELLS CADWR9000005624

State Well #:	Not Reported	Station ID:	48162
Well Name:	EMWD12161	Basin Name:	San Jacinto
Well Use:	Observation	Well Type:	Single Well
Well Depth:	442	Well Completion Rpt #:	Not Reported

49
WSW
1/2 - 1 Mile
Higher

CA WELLS CADWR0000022349

Well ID:	04S02W24J001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	04S02W24J001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=04S02W24J001S&store_num=		
GeoTracker Data:	Not Reported		

50
WNW
1/2 - 1 Mile
Higher

CA WELLS CADWR9000005698

State Well #:	Not Reported	Station ID:	48217
Well Name:	EMWD10383	Basin Name:	San Jacinto
Well Use:	Irrigation	Well Type:	Single Well
Well Depth:	570	Well Completion Rpt #:	Not Reported

51
ESE
1/2 - 1 Mile
Higher

CA WELLS CADWR0000025057

Well ID:	04S01W20K001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	04S01W20K001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=04S01W20K001S&store_num=		
GeoTracker Data:	Not Reported		

52
NE
1/2 - 1 Mile
Higher

CA WELLS CADWR9000005711

State Well #:	04S01W17K003S	Station ID:	28905
Well Name:	Not Reported	Basin Name:	San Jacinto
Well Use:	Unknown	Well Type:	Unknown

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Depth: 0 Well Completion Rpt #: Not Reported

53
North
1/2 - 1 Mile
Lower

CA WELLS CADWR9000005744

State Well #:	Not Reported	Station ID:	48151
Well Name:	EMWD14440	Basin Name:	San Jacinto
Well Use:	Irrigation	Well Type:	Single Well
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92582	9	2

Federal EPA Radon Zone for RIVERSIDE County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for RIVERSIDE COUNTY, CA

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.117 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.450 pCi/L	100%	0%	0%
Basement	1.700 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program

State Water Resources Control Board

Telephone: 916-341-5577

The GAMA Program is California's comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Health Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations

Source: Dept of Conservation, Geologic Energy Management Division

Telephone: 916-323-1779

Oil and Gas well locations in the state.

California Earthquake Fault Lines

Source: California Division of Mines and Geology

The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon

Source: Department of Public Health

Telephone: 916-210-8558

Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Phase I Environmental Site Assessment
North Sanderson Avenue, Assessor's Parcel Numbers 432-030-006, 432-030-010, and 432-030-011
San Jacinto, California

APPENDIX G

Photographic Log



G-1. View of the Site from the western parcel boundary, denoted as 'Field B' in field notes (08/03/2021).



G-2. Abandoned concrete improvements in the southeastern corner of the Site related to former heifer ranch operations (08/03/2021).



G-3. Miscellaneous concrete debris in southeastern corner of the Site (08/03/2021).



G-4. Abandoned 55-gallon drums located in the southeastern corner of the Site (33.802430622641666, -117.00940455424796; 08/03/2021)



G-5. Exterior of abandoned, un-labeled drum. The surface on the top lid was punctured. It appeared the drum contents were partially intact (08/03/2021)



G-6. Exterior of abandoned, un-labeled drum. The surface was damaged and the top lid (bottom) was missing (08/03/2021).



G-7. Caking and potential staining underneath abandoned drum (08/03/2021).



G-8. Interior of yellow abandoned drum. Observed from open bottom of drum. (08/03/2021).



G-9. Abandoned blue plastic 55-gallon tote, located in southeastern corner of Site.



G-10. Interior of abandoned blue plastic 55-gallon tote (08/19/2020).



G-11. View from east of pond in southwest corner of the Site, beyond which is irrigated fields on an adjacent parcel (08/03/2021).



G-12. Pond in southwest corner of the Site (08/19/2020).



G-13. View from north as Field A, as denoted in field notes (08/19/2020).



G-14. View of Field B, as denoted in field notes (08/04/2021).



G-15. View of the east of Field C, as denoted in field notes (08/03/2021).



G-16. Northwest corner of Field C, as denoted in field notes (08/03/2021)



G-17. Field D, as denoted in field notes (08/03/2021).



G-18. Field E, as denoted in field notes (08/03/2021)



G-19. Former residence area from west (08/03/2021).



G-20. Debris in former residence area (08/03/2021)



G-21. 100-foot by 50-foot concrete foundation in former residence area (08/03/2021).



G-22. View from the north of debris pile adjacent to former residence area (08/03/2021).



G-23. Box of debris on concrete foundation in former residence area (08/03/2021).



G-24. Interior of box of debris on concrete foundation in former residence area (08/19/2020).



G-25. Encampment in former residence area (08/03/2021)



G-26. 15-foot by 10-foot concrete foundation and debris southwest of residence area (08/03/2021).



G-27. Groundwater irrigation well at eastern boundary of Site (08/03/2021)



G-28. Groundwater irrigation well at southern boundary of Site



G-29. Southern adjacent water reclamation facility (08/03/2021).



G-30. Western adjacent property from Field C, as denoted in field notes (08/03/2021).

Pertinent Historical Documentation



50 East Foothill Boulevard
Arcadia, California 91006
www.atc-enviro.com
626.447.5216
Fax 626.447.7593

October 30, 2000

Mr. Ed McGlothlin
CONSOLIDATED WASTE INDUSTRIES, INC.
10680 Silicon Avenue
Montclair, California 91763-4621

RE: SITE INVESTIGATION
WESTRA DAIRY
870 SANDERSON AVENUE
SAN JACINTO, CALIFORNIA
ATC PROJECT NUMBER 12077.5203

NOV 2000
Received
RWGLB
TABLE NO. 12077.5203

Dear McGlothlin:

This report presents the results of a Phase II Subsurface Investigation performed at 870 Sanderson Avenue in San Jacinto, California, by ATC Associates Inc. (ATC). This investigation was performed in accordance with the *Workplan of Environmental Sampling* dated August 4, 2000 prepared by ATC and approved within a California Regional Water Quality Control Board-Santa Ana Region letter dated September 26, 2000. ATC previously prepared a report of tank removal operations "Underground Storage Tank Closure Summary Report" dated February 21, 2000 (ATC Job No. 12077.5202).

BACKGROUND

The project location is the Westra Dairy (the Site) located at 870 Sanderson Avenue in the City of San Jacinto. The Site is situated in Riverside County (See Drawing 1).

ATC was retained by Consolidated Waste Industries, Inc. (CWI) to assist in the closure of three underground storage tanks at the Westra Dairy. ATC's initial scope of work included the collection of soil samples from the floor and walls of a former UST System tank pit (see Drawing 2). CWI over-excavated obvious petroleum hydrocarbon stained soil, prior to ATC's collection of soil samples. Ms. Brenda MacGregor, a representative for the County of Riverside Environmental Health Department, monitored ATC sample collection activities. ATC submitted the collected soil samples for analysis by EPA Methods 8015M for gasoline and diesel, 8020 for BTEX/MTBE and 8260 for MTBE confirmation to a state-certified laboratory.

ATC's evaluation of the analytical results indicated that a release had occurred at the site. ATC recommended a subsurface characterization beneath the former tanks. ATC prepared a Workplan for a Phase II Subsurface Investigation in which was submitted to the State Regional Water Resources Control Board - Santa Ana Regional for approval.

PURPOSE AND SCOPE

The purpose of the work was to define the approximate vertical and lateral extent of contamination in the subsurface soil. The scope of work included:

- Drilling three borings to a maximum depth of 60 feet below ground surface.
- Monitor and log the soil;
- Collect soil samples for analysis by EPA Methods 8015, 8021B, 8260B, and 8270C.
- Evaluate the analytical results
- Provide a report of exploration activity.

ATC's *Workplan of Environmental Sampling* dated August 4, 2000 was approved by the California Regional Water Quality Control Board-Santa Ana Region (RWQCB) dated September 26, 2000 (see attached letter).

HYDROGEOLOGICAL CONDITIONS

The Site and surrounding area are included within the U.S. Geological Survey, San Jacinto, California, 7.5-minute quadrangle map. The elevation of the Subject Property is shown as approximately 1,530 feet above mean sea level (MSL).

Quaternary age alluvial fan deposits consisting of unconsolidated sand and gravel underlie the Site. Ground water in this area is reportedly at 120 feet below the ground surface. The regional ground water gradient is southward in the vicinity.

FIELD WORK

ATC advanced 3 soil borings with the use of a CME-85 drilling rig on October 10, 2000 at RWQCB pre-approved locations in association with the former UST field. Soil sample collection was performed at 5 foot intervals beginning at 15 feet to a depth of 70 feet within boring S-1 and S-2, and to a maximum depth of 60 feet within boring S-3. Soil lithology within the borings were characteristic of alluvial deposits consisting of unconsolidated sands and gravel from the surface to the total depth of each boring.

Soil samples were collected using a Modified California Split Spoon Sampler. Upon reaching designated sampling depths, the sampler was driven 18 inches ahead into undisturbed soil. The collected soil samples were retained in stainless steel sleeves, capped with Teflon sheeting and plastic end caps. The samples designated for analysis were labeled, placed on Chain of Custody forms, placed in an iced cooler and delivered to a certified laboratory for analysis.

LABORATORY ANALYSES

All collected soil samples were tested for total (gas and diesel) fuel and aromatic hydrocarbons by Environmental Protection Agency (EPA) methods 8015 and 8021B. Selected samples from boring S-1 at 15 feet and S-3 at 15 feet were analyzed for oxygenates, alcohol's and semi-volatiles as requested by Ms. Rose Scott of the RWQCB by EPA Methods 8260B and 8270C. Analyses were performed by Enviro Chem Laboratories of Pomona, California.

FINDINGS

Soil encountered during this investigation consisted of alluvium, which was brown to a mottled blue/gray color, moist and firm to very dense. Groundwater was not encountered in the borings drilled. Groundwater is estimated to be at a depth of approximately 120 feet beneath the site. Petroleum odors and obvious staining was encountered in all the borings to a depth of 15 feet.

The laboratory analyses indicated that gasoline compounds were present at 15 feet in boring S-1, but concentrations diminished quickly with depth. The highest concentration (2,710-ppm) was at 15 feet, diminishing to 0.497 ppm at 35 feet, and non-detect below 35 feet. Only one sample contained gasoline hydrocarbons in either of borings S-2 or S-3. The sample from boring S-3 at 15 feet contained 0.147 ppm gasoline hydrocarbons Diesel concentrations were not detected in any soil samples.

Two soil samples from 15 feet which contained gasoline compounds were further analyzed for oxygenates and semi volatile compounds by EPA Methods 8260B and 8270C. As expected, several gasoline related compounds were present in sample S-1 at 15 feet which had the highest concentration of gasoline. MTBE was present at 200 mg/kg. Aromatic hydrocarbons including benzene, toluene, ethylbenzene, xylene and trimethylbenzene were present ranging from 22.4 to 578 mg/kg. The laboratory results are summarized on Tables 1, 2, and 3. The laboratory results and chain-of-custody are attached to this report.

CONCLUSIONS

Based on ATC's field observations and the analytical results of the collected soil samples, it is ATC's opinion that the contamination at the site is very limited in vertical and lateral extent. The vertical extent of contamination extends below the former tanks to a depth of 35 feet.

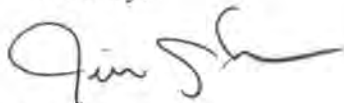
ATC suggests that recent cleanup criteria allow fuel hydrocarbons to be left in soil if the risk of impacting groundwater resources is low. As reported to ATC, the depth to groundwater in this local vicinity is below 120 feet bgs. It appears therefore, that the site conditions are low-risk. The type of hydrocarbons (gasoline) and the relatively low concentrations of hydrocarbon constituents (benzene) and the lack of MTBE, TAME, DIPE and TBA coupled with the great depth to groundwater suggest that no cleanup action would be required. Additionally, a "clean" zone has been established beneath the deepest zone of contamination and the potential for migration to any groundwater resources is low. ATC recommends that the regulatory agency close the site.

LIMITATIONS


This project was performed employing the same degree and skill expected of other similar firms practicing in similar situations or localities. The statements and conclusions provided herein are based on field observations and the analytical results described herein and considered professional opinions.

If there are any questions regarding this report or any of its attachments, please contact the undersigned at (626) 447-5216.

Sincerely,



Timothy J. Lane
Project Geologist



Keith G. Farrell, CEG #1314
Director of Geological Services

Attachments

Drawing 1 - Site Location Map
Drawing 2 - Soil Boring Map

Table 1 - Laboratory Summary - 8015/8021B
Table 2 - Laboratory Summary - 8260B
Table 3 Laboratory Summary - 8270C

Appendix A - Certified Laboratory Results
Appendix B - CRWQCB letter dated September 26, 2000

TABLE 1
 LABORATORY SUMMARY
 EPA METHODS 8015/8021b
 WESTRA DAIRY
 SAN JACINTO, CALIFORNIA
 ATC PROJECT NUMBER 12077.5203
 RESULTS ARE EXPRESSED AS MG/KG

Boring	Depth	8015g	8015d	B	T	E	X	MTBE*
S-1	15	2710	ND	ND	131	ND	486	169
	20	3.50	ND	ND	0.179	ND	0.375	3.13
	25	ND	ND	ND	0.008	ND	0.015	0.028
	30	ND	ND	ND	ND	ND	ND	ND
	35	0.497	ND	ND	0.021	0.012	0.158	0.027
	40	ND	ND	ND	ND	ND	ND	ND
	45	ND	ND	ND	ND	ND	ND	ND
	50	ND	ND	ND	ND	ND	ND	ND
	55	ND	ND	ND	ND	ND	ND	ND
	60	ND	ND	ND	ND	ND	ND	0.089
	65	ND	ND	ND	ND	ND	ND	ND
	70	ND	ND	ND	ND	ND	ND	ND
	S-2	15	ND	ND	ND	ND	ND	ND
20		ND	ND	ND	ND	ND	ND	ND
25		ND	ND	ND	ND	ND	ND	ND
30		ND	ND	ND	ND	ND	ND	ND
35		ND	ND	ND	ND	ND	ND	ND
40		ND	ND	ND	ND	ND	ND	ND
45		ND	ND	ND	ND	ND	ND	ND
50		ND	ND	ND	ND	ND	ND	ND
55		ND	ND	ND	ND	ND	ND	ND
60		ND	ND	ND	ND	ND	ND	ND
65		ND	ND	ND	ND	ND	ND	ND
70		ND	ND	ND	ND	ND	ND	ND
S-3		15	0.147	ND	0.009	0.031	ND	0.012
	20	ND	ND	0.006	0.005	ND	ND	0.047
	25	ND	ND	ND	ND	ND	ND	ND
	30	ND	ND	ND	ND	ND	ND	ND
	35	ND	ND	ND	ND	ND	ND	ND
	40	ND	ND	ND	ND	ND	ND	ND
	45	ND	ND	ND	ND	ND	ND	ND
	50	ND	ND	ND	ND	ND	ND	ND
60	ND	ND	ND	ND	ND	ND	ND	

ND= Not detected at laboratory detection levels

B = Benzene T = toluene E = Ethylbenzene X = Total Xylene Isomers

ND = Not detected at the laboratories detection level

*MTBE =analyzed by EPA Method 8021B

TABLE 2
LABORATORY SUMMARY
EPA METHOD 8260B
WESTRA DAIRY
SAN JACINTO, CALIFORNIA
ATC PROJECT NUMBER 12077.5203
RESULTS ARE EXPRESSED AS mg/Kg

Sample	Depth	B	T	E	MTBE	NAPTH	N-Prop	1,2,4 TriMet	1,3,5 TriMet	X
S-1	15	22.4	308	98.6	200	31.4	34.6	248	82.8	578
S-3	15	ND	0.020	ND	0.197	ND	ND	ND	ND	ND

B = Benzene T = toluene E = Ethylbenzene X = Total Xylene Isomers

MTBE = Meth-tert Butyl Ether

NAPTH = Napthalene

N-Prop = N-Propylbenzene

1,2,4 TriMet = 1,2,4 TriMethylbenzene

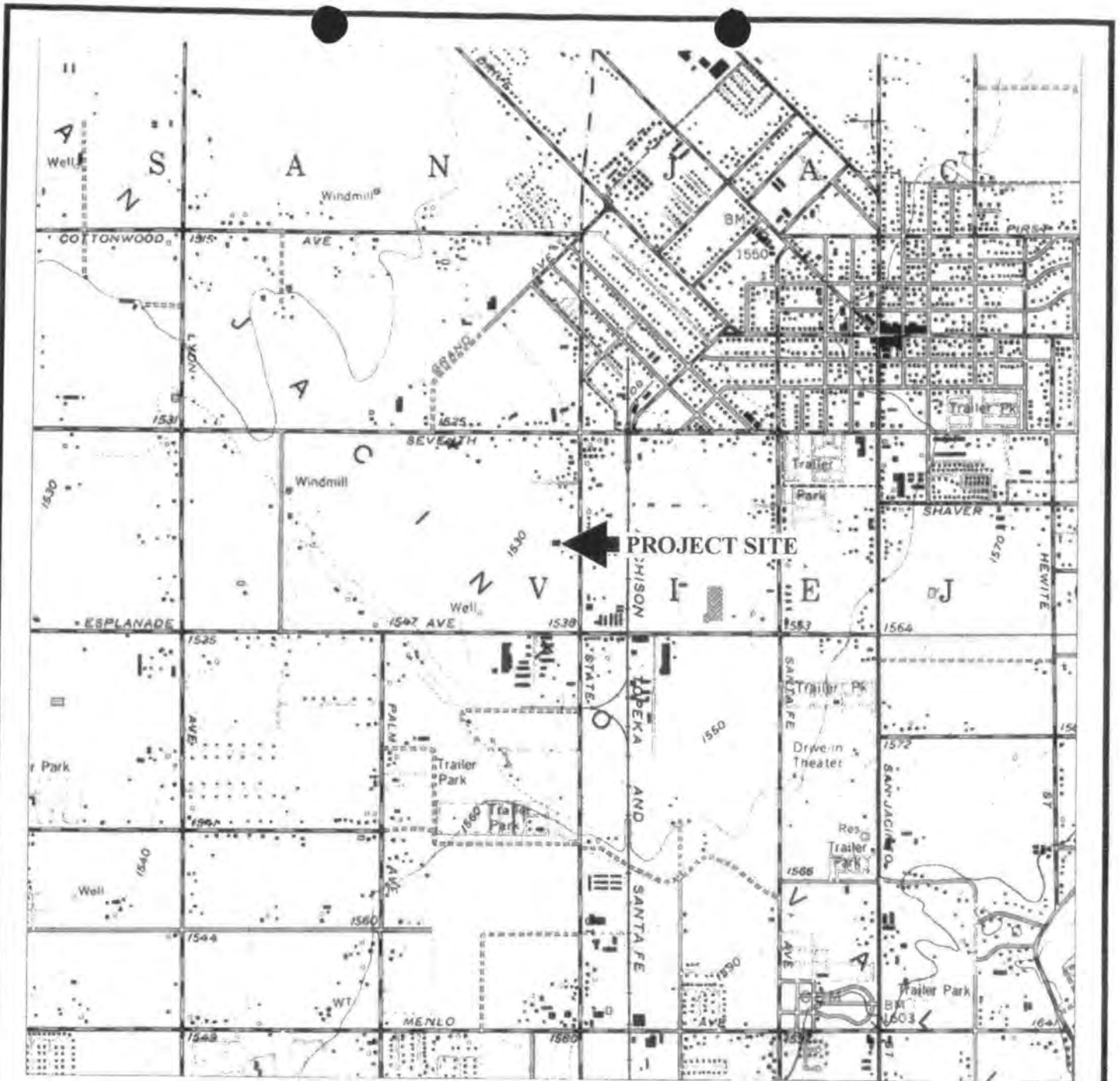
1,3,5 TriMet = 1,3,5, TriMethylbenzene

ND = Not detected at the laboratories detection level.

TABLE 3
LABORATORY SUMMARY
EPA METHOD 8270C
WESTRA DAIRY
SAN JACINTO, CALIFORNIA
ATC PROJECT NUMBER 12077.5203
RESULTS ARE EXPRESSED AS mg/Kg

SAMPLE	DEPTH	2-Methylnapthalene	Napthalene
S-1	15	33.6	32.6
S-3	15	ND	ND

ND = Not detected at the laboratories detection level.



CORONA SOUTH, CALIFORNIA QUADRANGLE, DATE 1967, PHOTOREVISED 1988, SCALE 1:24,000



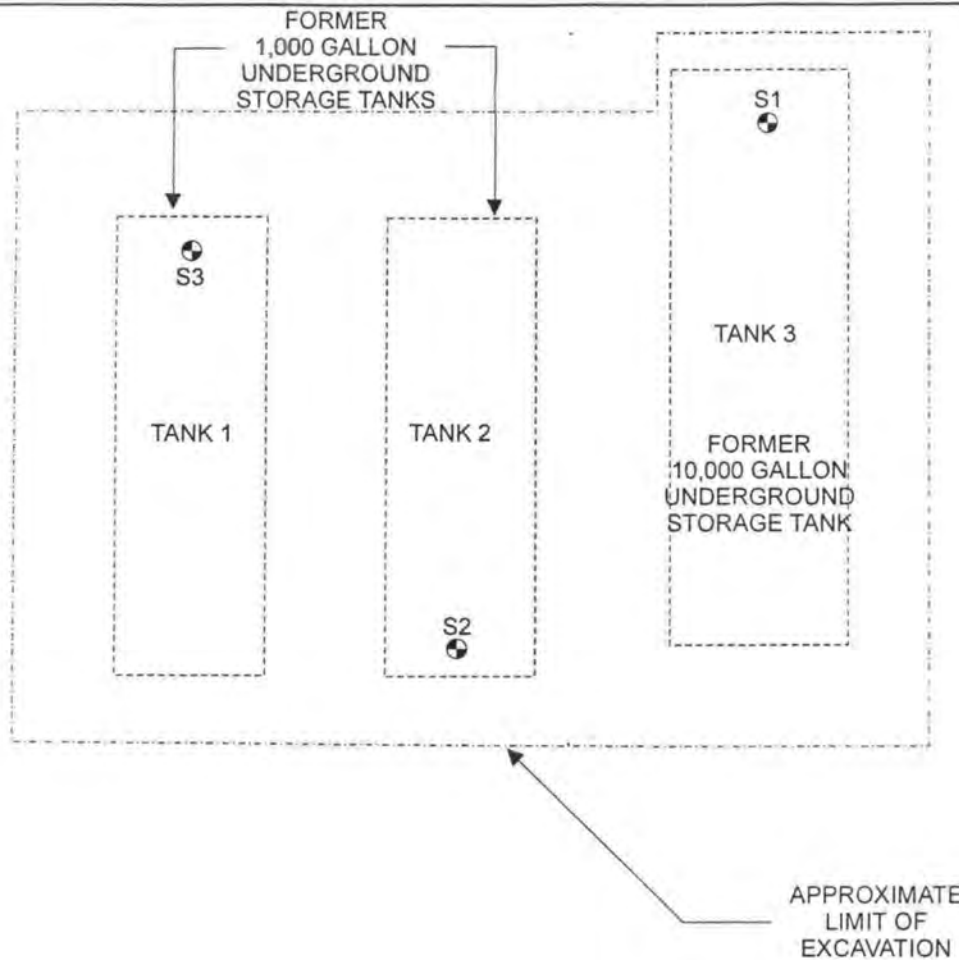
50 East Foothill Boulevard
Arcadia, California 91006
(626) 447-5216

FIGURE 1
SITE LOCATION MAP
CONSOLIDATED WASTE INDUSTRIES, INC.
WESTRA DAIRY
870 SANDERSON
SAN JACINTO, CALIFORNIA

PROJECT NO. 52.12077.5203

DATE 10/20/2000

BUILDING



LEGEND

B1
● Soil Boring Location



50 East Foothill Boulevard
Arcadia, California 91006
(626) 447-5216

PROJECT NO. 52.12077.5203

DATE 10/20/2000

SCALE: NOT TO SCALE

FIGURE 2
SITE PLOT PLAN
DRILLING LOCATIONS
CONSOLIDATED WASTE INDUSTRIES, INC.
WESTRA DAIRY
870 SANDERSON
SAN JACINTO, CALIFORNIA

APPENDIX A
CERTIFIED LABORATORY RESULTS

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: October 16, 2000

Mr. Tim Lane
ATC Environmental, Inc.
50 East Foothill Blvd
Arcadia, CA 91006

Project: Westra Dairy-5203

Dear Mr. Lane:


The analytical results for the soil samples, received by our Lab on October 10, 2000, are attached.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call Mr. John Ackerman, our Customer Service Specialist, or myself, if you have any questions.

Sincerely,



Curtis Desilets
Vice President/Program Manager



Chen-Chou Su
Lab Manager

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: ATC ENVIRONMENTAL, INC., 50 EAST FOOTHILL BLVD,
 ARCADIA, CA 91006 TEL(626)447-5216 FAX(626)447-7593

PROJECT: Westra Dairy-5203
 SAMPLING DATE: 10/10/00
 MATRIX: SOIL
 REPORT TO: MR. TIM LANE

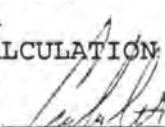
DATE SAMPLE REC'D: 10/10/00
 DATE ANALYZED: 10/10-12/00
 DATE REPORTED: 10/16/00

EPA 5030/8015M FOR TPH-GASOLINE RANGE (C4-C10)
 EPA 5030/8021B FOR BTEX/MTBE
 UNITS = MG/KG (PPM) PAGE 1 OF 2

SAMPLE ID	LAB ID	TPH-			ETHYL-		TOTAL		DF
		GASOLINE	BENZENE	TOLUENE	BENZENE	XYLENES	MTBE		
S-1-15	001010-9	2710	ND	131	ND	486	169*10000		
S-1-20	001010-10	3.50	ND	0.179	ND	0.375	3.13	10	
S-1-25	001010-11	ND	ND	0.008	ND	0.015	0.028	1	
S-1-30	001010-12	ND	ND	ND	ND	ND	ND	1	
S-1-35	001010-13	0.497	ND	0.021	0.012	0.158	0.027	1	
S-1-40	001010-14	ND	ND	ND	ND	ND	ND	1	
S-1-45	001010-15	ND	ND	ND	ND	ND	ND	1	
S-1-50	001010-16	ND	ND	ND	ND	ND	ND	1	
S-1-60	001010-17	ND	ND	ND	ND	ND	0.089	1	
S-1-65	001010-18	ND	ND	ND	ND	ND	ND	1	
S-1-70	001010-19	ND	ND	ND	ND	ND	ND	1	
S-3-15	001010-20	0.147	0.009	0.031	ND	0.012	0.186	1	
S-3-20	001010-21	ND	0.006	0.005	ND	ND	0.047	1	
S-3-25	001010-22	ND	ND	ND	ND	ND	ND	1	
S-3-30	001010-23	ND	ND	ND	ND	ND	ND	1	
S-3-35	001010-24	ND	ND	ND	ND	ND	ND	1	
S-3-40	001010-25	ND	ND	ND	ND	ND	ND	1	
S-3-45	001010-26	ND	ND	ND	ND	ND	ND	1	
S-3-50	001010-27	ND	ND	ND	ND	ND	ND	1	
S-3-55	001010-28	ND	ND	ND	ND	ND	ND	1	
S-3-60	001010-29	ND	ND	ND	ND	ND	ND	1	

PQL 0.1 0.005 0.005 0.005 0.01 0.025

COMMENTS:

DF = DILUTION FACTOR / *:DF=500
 PQL = PRACTICAL QUANTITATION LIMIT
 ACTUAL DETECTION LIMIT = DF X PQL
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
 TPH = TOTAL PETROLEUM HYDROCARBONS
 MTBE = METHYL tert-BUTYL ETHER
 MTBE IS NOT UTILIZED IN THE CALCULATION FOR TPH-GASOLINE
 Data Reviewed and Approved by: 
 CAL-DHS ELAP CERT No.: 1555

LABORATORY REPORT

CUSTOMER: ATC ENVIRONMENTAL, INC., 50 EAST FOOTHILL BLVD,
ARCADIA, CA 91006 TEL(626)447-5216 FAX(626)447-7593

PROJECT: Westra Dairy-5203

SAMPLING DATE: 10/10/00

DATE SAMPLE REC'D: 10/10/00

MATRIX: SOIL

DATE ANALYZED: 10/10-12/00

REPORT TO: MR. TIM LANE

DATE REPORTED: 10/16/00

EPA 5030/8015M FOR TPH-GASOLINE RANGE (C4-C10)

EPA 5030/8021B FOR BTEX/MTBE

UNITS = MG/KG (PPM) PAGE 2 OF 2

SAMPLE ID	LAB ID	TPH-			ETHYL- BENZENE	TOTAL XYLENES	MTBE	DF
		GASOLINE	BENZENE	TOLUENE				
S-2-15	001010-30	ND	ND	ND	ND	ND	ND	1
S-2-20	001010-31	ND	ND	ND	ND	ND	ND	1
S-2-25	001010-32	ND	ND	ND	ND	ND	ND	1
S-2-30	001010-33	ND	ND	ND	ND	ND	ND	1
S-2-35	001010-34	ND	ND	ND	ND	ND	ND	1
S-2-40	001010-35	ND	ND	ND	ND	ND	ND	1
S-2-45	001010-36	ND	ND	ND	ND	ND	ND	1
S-2-50	001010-37	ND	ND	ND	ND	ND	ND	1
S-2-55	001010-38	ND	ND	ND	ND	ND	ND	1
S-2-60	001010-39	ND	ND	ND	ND	ND	ND	1
S-2-65	001010-40	ND	ND	ND	ND	ND	ND	1
S-2-70	001010-41	ND	ND	ND	ND	ND	ND	1
Method Blank		ND	ND	ND	ND	ND	ND	1
PQL		0.1	0.005	0.005	0.005	0.01	0.025	

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

TPH = TOTAL PETROLEUM HYDROCARBONS

MTBE = METHYL tert-BUTYL ETHER

MTBE IS NOT UTILIZED IN THE CALCULATION FOR TPH-GASOLINE

Data Reviewed and Approved by: *[Signature]*

CAL-DHS ELAP CERT No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: ATC ENVIRONMENTAL, INC., 50 EAST FOOTHILL BLVD,
ARCADIA, CA 91006 TEL(626)447-5216 FAX(626)447-7593

PROJECT: Westra Dairy-5203

SAMPLING DATE: 10/10/00

DATE SAMPLE REC'D: 10/10/00

MATRIX: SOIL

DATE ANALYZED: 10/10-11/00

REPORT TO: MR. TIM LANE

DATE REPORTED: 10/16/00

LUFT / EPA 8015M FOR TPH-DIESEL RANGE (C10-C22)

UNITS = MG/KG (PPM)

PAGE 1 OF 2

SAMPLE ID	LAB ID	TPH-DIESEL	DF
S-1-15	001010-9	ND	1
S-1-20	001010-10	ND	1
S-1-25	001010-11	ND	1
S-1-30	001010-12	ND	1
S-1-35	001010-13	ND	1
S-1-40	001010-14	ND	1
S-1-45	001010-15	ND	1
S-1-50	001010-16	ND	1
S-1-60	001010-17	ND	1
S-1-65	001010-18	ND	1
S-1-70	001010-19	ND	1
S-3-15	001010-20	ND	1
S-3-20	001010-21	ND	1
S-3-25	001010-22	ND	1
S-3-30	001010-23	ND	1
S-3-35	001010-24	ND	1
S-3-40	001010-25	ND	1
S-3-45	001010-26	ND	1
S-3-50	001010-27	ND	1
S-3-55	001010-28	ND	1
S-3-60	001010-29	ND	1

PQL

10

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

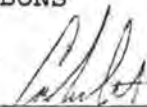
ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

TPH = TOTAL PETROLEUM HYDROCARBONS

Data Reviewed and Approved by:

CAL-DHS ELAP CERT No.: 1555



Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: ATC ENVIRONMENTAL, INC., 50 EAST FOOTHILL BLVD,
ARCADIA, CA 91006 TEL(626)447-5216 FAX(626)447-7593

PROJECT: Westra Dairy-5203

SAMPLING DATE: 10/10/00

DATE SAMPLE REC'D: 10/10/00

MATRIX: SOIL

DATE ANALYZED: 10/10-11/00

REPORT TO: MR. TIM LANE

DATE REPORTED: 10/16/00

LUFT / EPA 8015M FOR TPH-DIESEL RANGE (C10-C22)

UNITS = MG/KG (PPM)

PAGE 2 OF 2

SAMPLE ID	LAB ID	TPH-DIESEL	DF
S-2-15	001010-30	ND	1
S-2-20	001010-31	ND	1
S-2-25	001010-32	ND	1
S-2-30	001010-33	ND	1
S-2-35	001010-34	ND	1
S-2-40	001010-35	ND	1
S-2-45	001010-36	ND	1
S-2-50	001010-37	ND	1
S-2-55	001010-38	ND	1
S-2-60	001010-39	ND	1
S-2-65	001010-40	ND	1
S-2-70	001010-41	ND	1

Method Blank ND 1

PQL 10

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

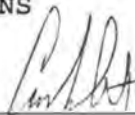
ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

TPH = TOTAL PETROLEUM HYDROCARBONS

Data Reviewed and Approved by:

CAL-DHS ELAP CERT No.: 1555



Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: ATC ENVIRONMENTAL, INC., 50 EAST FOOTHILL BLVD,
ARCADIA, CA 91006 TEL (626) 447-5216 FAX (626) 447-7593

PROJECT: Westra Dairy-5203

SAMPLING DATE: 10/10/00

DATE SAMPLE REC'D: 10/10/00

MATRIX: SOIL

DATE ANALYZED: 10/13/00

REPORT TO: MR. TIM LANE

DATE REPORTED: 10/16/00

SAMPLE I.D.: S-1-15

LAB I.D.: 001010-9

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 8260B, PAGE 1 OF 2
UNIT: MG/KG (PPM)

PARAMETER	SAMPLE RESULT	REPORTING LIMIT X2000
ACETONE	ND	0.05
BENZENE	22.4	0.01
BROMOBENZENE	ND	0.01
BROMOCHLOROMETHANE	ND	0.01
BROMODICHLOROMETHANE	ND	0.01
BROMOFORM	ND	0.01
BROMOMETHANE	ND	0.01
2-BUTANONE (MEK)	ND	0.05
N-BUTYLBENZENE	ND	0.01
SEC-BUTYLBENZENE	ND	0.01
TERT-BUTYLBENZENE	ND	0.01
CARBON DISULFIDE	ND	0.01
CARBON TETRACHLORIDE	ND	0.01
CHLOROBENZENE	ND	0.01
CHLOROETHANE	ND	0.01
CHLOROFORM	ND	0.01
CHLOROMETHANE	ND	0.01
2-CHLOROTOLUENE	ND	0.01
4-CHLOROTOLUENE	ND	0.01
DIBROMOCHLOROMETHANE	ND	0.01
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.01
1,2-DIBROMOETHANE	ND	0.01
DIBROMOMETHANE	ND	0.01
1,2-DICHLOROBENZENE	ND	0.01
1,3-DICHLOROBENZENE	ND	0.01
1,4-DICHLOROBENZENE	ND	0.01
DICHLORODIFLUOROMETHANE	ND	0.01
1,1-DICHLOROETHANE	ND	0.01
1,2-DICHLOROETHANE	ND	0.01
1,1-DICHLOROETHENE	ND	0.01
CIS-1,2-DICHLOROETHENE	ND	0.01
TRANS-1,2-DICHLOROETHENE	ND	0.01
1,2-DICHLOROPROPANE	ND	0.01

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: *[Signature]*

LABORATORY REPORT

CUSTOMER: ATC ENVIRONMENTAL, INC., 50 EAST FOOTHILL BLVD,
ARCADIA, CA 91006 TEL (626) 447-5216 FAX (626) 447-7593

PROJECT: Westra Dairy-5203

SAMPLING DATE: 10/10/00

MATRIX: SOIL

REPORT TO: MR. TIM LANE

DATE SAMPLE REC'D: 10/10/00

DATE ANALYZED: 10/13/00

DATE REPORTED: 10/16/00

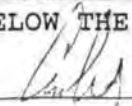
SAMPLE I.D.: S-1-15

LAB I.D.: 001010-9

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 8260B, PAGE 2 OF 2
UNIT: MG/KG (PPM)

PARAMETER	SAMPLE RESULT	REPORTING LIMIT X2000
1,3-DICHLOROPROPANE	ND	0.01
2,2-DICHLOROPROPANE	ND	0.01
1,1-DICHLOROPROPENE	ND	0.01
CIS-1,3-DICHLOROPROPENE	ND	0.01
TRANS-1,3-DICHLOROPROPENE	ND	0.01
ETHYLBENZENE	98.6	0.01
2-HEXANONE	ND	0.05
HEXACHLOROBUTADIENE	ND	0.01
IODOMETHANE	ND	0.01
ISOPROPYLBENZENE	ND	0.01
4-ISOPROPYLTOLUENE	ND	0.01
4-METHYL-2-PENTANONE (MIBK)	ND	0.05
METHYL tert-BUTYL ETHER	200	0.01
METHYLENE CHLORIDE	ND	0.01
NAPHTHALENE	31.4	0.01
N-PROPYLBENZENE	34.6	0.01
STYRENE	ND	0.01
1,1,1,2-TETRACHLOROETHANE	ND	0.01
1,1,2,2-TETRACHLOROETHANE	ND	0.01
TETRACHLOROETHENE (PCE)	ND	0.01
TOLUENE	308	0.01
1,2,3-TRICHLOROBENZENE	ND	0.01
1,2,4-TRICHLOROBENZENE	ND	0.01
1,1,1-TRICHLOROETHANE	ND	0.01
1,1,2-TRICHLOROETHANE	ND	0.01
TRICHLOROETHENE (TCE)	ND	0.01
TRICHLOROFLUOROMETHANE	ND	0.01
1,2,3-TRICHLOROPROPANE	ND	0.01
1,2,4-TRIMETHYLBENZENE	248	0.01
1,3,5-TRIMETHYLBENZENE	82.8	0.01
VINYL CHLORIDE	ND	0.01
TOTAL XYLENES	578	0.02

COMMENTS ND: NON-DETECTED OR BELOW THE REPORTING LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS CERTIFICATE # 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: ATC ENVIRONMENTAL, INC., 50 EAST FOOTHILL BLVD,
 ARCADIA, CA 91006 TEL(626)447-5216 FAX(626)447-7593

PROJECT: Westra Dairy-5203
 SAMPLING DATE: 10/10/00
 MATRIX: SOIL
 REPORT TO: MR. TIM LANE

DATE SAMPLE REC'D: 10/10/00
 DATE ANALYZED: 10/13/00
 DATE REPORTED: 10/16/00

SAMPLE I.D.: S-3-15

LAB I.D.: 001010-20

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 8260B, PAGE 1 OF 2
 UNIT: MG/KG (PPM)

PARAMETER	SAMPLE RESULT	REPORTING LIMIT X1
ACETONE	ND	0.05
BENZENE	ND	0.01
BROMOBENZENE	ND	0.01
BROMOCHLOROMETHANE	ND	0.01
BROMODICHLOROMETHANE	ND	0.01
BROMOFORM	ND	0.01
BROMOMETHANE	ND	0.01
2-BUTANONE (MEK)	ND	0.05
N-BUTYLBENZENE	ND	0.01
SEC-BUTYLBENZENE	ND	0.01
TERT-BUTYLBENZENE	ND	0.01
CARBON DISULFIDE	ND	0.01
CARBON TETRACHLORIDE	ND	0.01
CHLOROBENZENE	ND	0.01
CHLOROETHANE	ND	0.01
CHLOROFORM	ND	0.01
CHLOROMETHANE	ND	0.01
2-CHLOROTOLUENE	ND	0.01
4-CHLOROTOLUENE	ND	0.01
DIBROMOCHLOROMETHANE	ND	0.01
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.01
1,2-DIBROMOETHANE	ND	0.01
DIBROMOMETHANE	ND	0.01
1,2-DICHLOROBENZENE	ND	0.01
1,3-DICHLOROBENZENE	ND	0.01
1,4-DICHLOROBENZENE	ND	0.01
DICHLORODIFLUOROMETHANE	ND	0.01
1,1-DICHLOROETHANE	ND	0.01
1,2-DICHLOROETHANE	ND	0.01
1,1-DICHLOROETHENE	ND	0.01
CIS-1,2-DICHLOROETHENE	ND	0.01
TRANS-1,2-DICHLOROETHENE	ND	0.01
1,2-DICHLOROPROPANE	ND	0.01

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: 

Enviro - Chem, Inc.

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LABORATORY REPORT

CUSTOMER: ATC ENVIRONMENTAL, INC., 50 EAST FOOTHILL BLVD,
ARCADIA, CA 91006 TEL(626)447-5216 FAX(626)447-7593

PROJECT: Westra Dairy-5203

SAMPLING DATE: 10/10/00

DATE SAMPLE REC'D: 10/10/00

MATRIX: SOIL

DATE ANALYZED: 10/13/00

REPORT TO: MR. TIM LANE

DATE REPORTED: 10/16/00

SAMPLE I.D.: S-3-15

LAB I.D.: 001010-20

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 8260B, PAGE 2 OF 2
 UNIT: MG/KG (PPM)

PARAMETER	SAMPLE RESULT	REPORTING LIMIT X1
1,3-DICHLOROPROPANE	ND	0.01
2,2-DICHLOROPROPANE	ND	0.01
1,1-DICHLOROPROPENE	ND	0.01
CIS-1,3-DICHLOROPROPENE	ND	0.01
TRANS-1,3-DICHLOROPROPENE	ND	0.01
ETHYLBENZENE	ND	0.01
2-HEXANONE	ND	0.05
HEXACHLOROBUTADIENE	ND	0.01
IODOMETHANE	ND	0.01
ISOPROPYLBENZENE	ND	0.01
4-ISOPROPYLTOLUENE	ND	0.01
4-METHYL-2-PENTANONE (MIBK)	ND	0.05
METHYL tert-BUTYL ETHER	0.197	0.01
METHYLENE CHLORIDE	ND	0.01
NAPHTHALENE	ND	0.01
N-PROPYLBENZENE	ND	0.01
STYRENE	ND	0.01
1,1,1,2-TETRACHLOROETHANE	ND	0.01
1,1,2,2-TETRACHLOROETHANE	ND	0.01
TETRACHLOROETHENE (PCE)	ND	0.01
TOLUENE	0.020	0.01
1,2,3-TRICHLOROBENZENE	ND	0.01
1,2,4-TRICHLOROBENZENE	ND	0.01
1,1,1-TRICHLOROETHANE	ND	0.01
1,1,2-TRICHLOROETHANE	ND	0.01
TRICHLOROETHENE (TCE)	ND	0.01
TRICHLOROFLUOROMETHANE	ND	0.01
1,2,3-TRICHLOROPROPANE	ND	0.01
1,2,4-TRIMETHYLBENZENE	ND	0.01
1,3,5-TRIMETHYLBENZENE	ND	0.01
VINYL CHLORIDE	ND	0.01
TOTAL XYLENES	ND	0.02

COMMENTS ND: NON-DETECTED OR BELOW THE REPORTING LIMIT

DATA REVIEWED AND APPROVED BY: [Signature]

CAL-DHS CERTIFICATE # 1555

METHOD BLANK REPORT

CUSTOMER: ATC ENVIRONMENTAL, INC., 50 EAST FOOTHILL BLVD,
ARCADIA, CA 91006 TEL(626)447-5216 FAX(626)447-7593

PROJECT: Westra Dairy-5203

SAMPLING DATE: 10/10/00

DATE SAMPLE REC'D: 10/10/00

MATRIX: SOIL

DATE ANALYZED: 10/13/00

REPORT TO: MR. TIM LANE

DATE REPORTED: 10/16/00

 METHOD BLANK FOR LAB I.D.: 001010-9, -20

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 8260B, PAGE 1 OF 2
 UNIT: MG/KG (PPM)

PARAMETER	SAMPLE RESULT	REPORTING LIMIT X1
ACETONE	ND	0.05
BENZENE	ND	0.01
BROMOBENZENE	ND	0.01
BROMOCHLOROMETHANE	ND	0.01
BROMODICHLOROMETHANE	ND	0.01
BROMOFORM	ND	0.01
BROMOMETHANE	ND	0.01
2-BUTANONE (MEK)	ND	0.05
N-BUTYLBENZENE	ND	0.01
SEC-BUTYLBENZENE	ND	0.01
TERT-BUTYLBENZENE	ND	0.01
CARBON DISULFIDE	ND	0.01
CARBON TETRACHLORIDE	ND	0.01
CHLOROBENZENE	ND	0.01
CHLOROETHANE	ND	0.01
CHLOROFORM	ND	0.01
CHLOROMETHANE	ND	0.01
2-CHLOROTOLUENE	ND	0.01
4-CHLOROTOLUENE	ND	0.01
DIBROMOCHLOROMETHANE	ND	0.01
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.01
1,2-DIBROMOETHANE	ND	0.01
DIBROMOMETHANE	ND	0.01
1,2-DICHLOROBENZENE	ND	0.01
1,3-DICHLOROBENZENE	ND	0.01
1,4-DICHLOROBENZENE	ND	0.01
DICHLORODIFLUOROMETHANE	ND	0.01
1,1-DICHLOROETHANE	ND	0.01
1,2-DICHLOROETHANE	ND	0.01
1,1-DICHLOROETHENE	ND	0.01
CIS-1,2-DICHLOROETHENE	ND	0.01
TRANS-1,2-DICHLOROETHENE	ND	0.01
1,2-DICHLOROPROPANE	ND	0.01

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: *[Signature]*

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METHOD BLANK REPORT

CUSTOMER: ATC ENVIRONMENTAL, INC., 50 EAST FOOTHILL BLVD,
 ARCADIA, CA 91006 TEL(626)447-5216 FAX(626)447-7593

PROJECT: Westra Dairy-5203
 SAMPLING DATE: 10/10/00
 MATRIX: SOIL
 REPORT TO: MR. TIM LANE

DATE SAMPLE REC'D: 10/10/00
 DATE ANALYZED: 10/13/00
 DATE REPORTED: 10/16/00

METHOD BLANK FOR LAB I.D.: 001010-9, -20

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 8260B, PAGE 2 OF 2
 UNIT: MG/KG (PPM)

PARAMETER	SAMPLE RESULT	REPORTING LIMIT X1
1,3-DICHLOROPROPANE	ND	0.01
2,2-DICHLOROPROPANE	ND	0.01
1,1-DICHLOROPROPENE	ND	0.01
CIS-1,3-DICHLOROPROPENE	ND	0.01
TRANS-1,3-DICHLOROPROPENE	ND	0.01
ETHYLBENZENE	ND	0.01
2-HEXANONE	ND	0.05
HEXACHLOROBUTADIENE	ND	0.01
IODOMETHANE	ND	0.01
ISOPROPYLBENZENE	ND	0.01
4-ISOPROPYLTOLUENE	ND	0.01
4-METHYL-2-PENTANONE (MIBK)	ND	0.05
METHYL tert-BUTYL ETHER	ND	0.01
METHYLENE CHLORIDE	ND	0.01
NAPHTHALENE	ND	0.01
N-PROPYLBENZENE	ND	0.01
STYRENE	ND	0.01
1,1,1,2-TETRACHLOROETHANE	ND	0.01
1,1,2,2-TETRACHLOROETHANE	ND	0.01
TETRACHLOROETHENE (PCE)	ND	0.01
TOLUENE	ND	0.01
1,2,3-TRICHLOROBENZENE	ND	0.01
1,2,4-TRICHLOROBENZENE	ND	0.01
1,1,1-TRICHLOROETHANE	ND	0.01
1,1,2-TRICHLOROETHANE	ND	0.01
TRICHLOROETHENE (TCE)	ND	0.01
TRICHLOROFLUOROMETHANE	ND	0.01
1,2,3-TRICHLOROPROPANE	ND	0.01
1,2,4-TRIMETHYLBENZENE	ND	0.01
1,3,5-TRIMETHYLBENZENE	ND	0.01
VINYL CHLORIDE	ND	0.01
TOTAL XYLENES	ND	0.02

COMMENTS ND: NON-DETECTED OR BELOW THE REPORTING LIMIT

DATA REVIEWED AND APPROVED BY: [Signature]
 CAL-DHS CERTIFICATE # 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: ATC ENVIRONMENTAL, INC., 50 EAST FOOTHILL BLVD,
 ARCADIA, CA 91006 TEL (626) 447-5216 FAX (626) 447-7593

PROJECT: Westra Dairy-5203

SAMPLING DATE: 10/10/00

DATE SAMPLE REC'D: 10/10/00

MATRIX: SOIL

DATE ANALYZED: 10/13/00

REPORT TO: MR. TIM LANE

DATE REPORTED: 10/16/00

SAMPLE I.D.: S-1-15

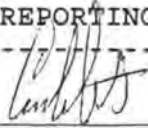
LAB I.D.: 001010-9

ANALYSIS: POLYNUCLEAR AROMATIC HYDROCARBONS, EPA METHOD 8270C
 UNIT: MG/KG (PPM)

PARAMETER	SAMPLE RESULT	REPORTING LIMIT	X1
ACENAPHTHENE	ND	0.5	
ACENAPHTHYLENE	ND	0.5	
ANTHRACENE	ND	0.5	
BENZO (a) ANTHRACENE	ND	0.5	
BENZO (a) PYRENE	ND	0.5	
BENZO (b) FLUORANTHENE	ND	0.5	
BENZO (k) FLUORANTHENE	ND	0.5	
BENZO (g, h, i) PERYLENE	ND	0.5	
CHRYSENE	ND	0.5	
DIBENZO (a, h) ANTHRACENE	ND	0.5	
DIBENZO (a, e) PYRENE	ND	0.5	
DIBENZO (a, h) PYRENE	ND	0.5	
DIBENZO (a, i) PYRENE	ND	0.5	
FLUORANTHENE	ND	0.5	
FLUORENE	ND	0.5	
INDENO (1, 2, 3-cd) PYRENE	ND	0.5	
2-METHYLNAPHTHALENE	33.6	0.5 (X10)	
NAPHTHALENE	32.3	0.5 (X10)	
PHENANTHRENE	ND	0.5	
PYRENE	ND	0.5	

COMMENTS:

ND = NON-DETECTED OR BELOW THE REPORTING LIMIT

Data Reviewed and Approved by: 

CAL-DHS ELAP#1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: ATC ENVIRONMENTAL, INC., 50 EAST FOOTHILL BLVD,
 ARCADIA, CA 91006 TEL(626)447-5216 FAX(626)447-7593

PROJECT: Westra Dairy-5203

SAMPLING DATE: 10/10/00

MATRIX: SOIL

REPORT TO: MR. TIM LANE

DATE SAMPLE REC'D: 10/10/00

DATE ANALYZED: 10/13/00

DATE REPORTED: 10/16/00

SAMPLE I.D.: S-3-15

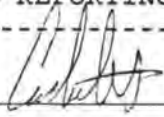
LAB I.D.: 001010-20

ANALYSIS: POLYNUCLEAR AROMATIC HYDROCARBONS, EPA METHOD 8270C
 UNIT: MG/KG (PPM)

PARAMETER	SAMPLE RESULT	REPORTING LIMIT	X1
ACENAPHTHENE	ND	0.5	
ACENAPHTHYLENE	ND	0.5	
ANTHRACENE	ND	0.5	
BENZO (a) ANTHRACENE	ND	0.5	
BENZO (a) PYRENE	ND	0.5	
BENZO (b) FLUORANTHENE	ND	0.5	
BENZO (k) FLUORANTHENE	ND	0.5	
BENZO (g, h, i) PERYLENE	ND	0.5	
CHRYSENE	ND	0.5	
DIBENZO (a, h) ANTHRACENE	ND	0.5	
DIBENZO (a, e) PYRENE	ND	0.5	
DIBENZO (a, h) PYRENE	ND	0.5	
DIBENZO (a, i) PYRENE	ND	0.5	
FLUORANTHENE	ND	0.5	
FLUORENE	ND	0.5	
INDENO (1, 2, 3-cd) PYRENE	ND	0.5	
2-METHYLNAPHTHALENE	ND	0.5	
NAPHTHALENE	ND	0.5	
PHENANTHRENE	ND	0.5	
PYRENE	ND	0.5	

COMMENTS:

ND = NON-DETECTED OR BELOW THE REPORTING LIMIT

Data Reviewed and Approved by: 
 CAL-DHS ELAP#1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: ATC ENVIRONMENTAL, INC., 50 EAST FOOTHILL BLVD,
ARCADIA, CA 91006 TEL(626)447-5216 FAX(626)447-7593

PROJECT: Westra Dairy-5203
SAMPLING DATE: 10/10/00 DATE SAMPLE REC'D: 10/10/00
MATRIX: SOIL DATE ANALYZED: 10/13/00
REPORT TO: MR. TIM LANE DATE REPORTED: 10/16/00

METHOD BLANK FOR LAB I.D.: 001010-9, -20

ANALYSIS: POLYNUCLEAR AROMATIC HYDROCARBONS, EPA METHOD 8270C
UNIT: MG/KG (PPM)

Table with 4 columns: PARAMETER, SAMPLE RESULT, REPORTING LIMIT, X1. Lists various aromatic hydrocarbons and their results (mostly ND) and reporting limits (0.5).

COMMENTS:

ND = NON-DETECTED OR BELOW THE REPORTING LIMIT

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP#1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

GAS/BTEX (S) QC

Date Analyzed: 10/11-12/2000

MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD)

SPIKED SAMPLE LAB. I.D.: 1010-16

MATRIX: Soil (mg/Kg, ppm)

ANALYTE	SR	SPK CONC	MS	% REC	MSD	% REC	%RPD	ACP % REC	ACP RPD
Gasoline	0	0.500	0.508	102	0.483	97	5	75-125	0 - 20
Toluene	0	0.050	0.053	106	0.053	106	0	75-125	0 - 20

LCS STD RECOVERY:

ANALYTE	SPK CONC	LCS	% REC	ACP %REC
Gasoline	0.500	0.510	102	75-125
Toluene	0.050	0.054	108	75-125

Analyzed By: James Yeap

Analyst Signature: 

First Reviewer: MF / Ja

Final Reviewer: CB

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

GAS/BTEX (S) QC

Date Analyzed: 10/10/00

MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD)

SPIKED SAMPLE LAB. I.D.: 01010-44

MATRIX: Soil (mg/Kg, ppm)

ANALYTE	SR	SPK CONC	MS	% REC	MSD	% REC	%RPD	ACP % REC	ACP RPD
Gasoline	0	0.500	0.508	102	0.507	101	0	75-125	0 - 20
Toluene	0	0.050	0.054	107	0.054	107	0	75-125	0 - 20

LCS STD RECOVERY:

ANALYTE	SPK CONC	LCS	% REC	ACP %REC
Gasoline	0.500	0.563	113	75-125
Toluene	0.050	0.048	97	75-125

Analyzed By: James Yeap

Analyst Signature: 

First Reviewer: MF

Final Reviewer: CBn

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

DIESEL (S) QC

Date Analyzed: 10/10/00

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)
Spiked Sample Lab I.D.: 1010-18

Unit: mG/Kg (PPM)
Matrix: soil

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
Diesel	0	3400	3270	96	3209	94	2	75-125	<20%

LCS STD RECOVERY:

ANALYTE	spk conc	LCS	% REC	ACP %REC
Diesel	2000	2065	103	75-125

Analyzed By: James Yeap

Analyst Signature: [Signature]

First Reviewer: AF / J

Final Reviewer: BS

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

DIESEL (S) QC

Date Analyzed: 10/11/00

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)
Spiked Sample Lab I.D.: 1010-31


Unit mG/Kg (PPM)
Matrix: soil

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
Diesel	0	3400	3921	115	3514	103	11	75-125	<20%

LCS STD RECOVERY:

ANALYTE	spk conc	LCS	% REC	ACP %REC
Diesel	2000	2125	106	75-125

Analyzed By: James Yeap

Analyst Signature: 

First Reviewer: 

Final Reviewer: 

1214 E. Lexington Avenue, Pomona, CA 91766
 Enviro-Chem, Inc.
 8260 QA/QC Report
 Tel (909)590-5905
 Fax (909)590-5907

Unit: uG/L (PPB)
 Date Analyzed: 10/13/2000

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)
Spiked Sample Lab I.D.: 1013-05

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
Trichloroethene (TCE)	0	48.4	51.12	106	48.70	101	5	75-125	0-20
Toluene	0	47.5	51.20	108	47.59	100	7	75-125	0-20

Lab Control Spike (LCS):

Analyte	spk conc	LCS	%LCS	ACP %
Trichloroethene (TCE)	50.0	49.15	98	75-125
Toluene	50.0	48.32	97	75-125

Surrogate Recovery	Sample I.D.	spk conc	ACP%	MB %RC	%RC	1013-05	%RC	1013-06	%RC	1013-07	%RC	1013-08	%RC	1013-10	%RC	1010-20
Dibromofluoromethane		50.0	75-125	100	102	102	103	103	102	102	104	104	102	102	103	103
Toluene-d8		50.0	75-125	100	99	99	100	100	100	100	100	100	100	100	101	101
4-Bromofluorobenzene		50.0	75-125	105	104	104	104	104	103	103	103	103	103	103	104	104

Surrogate Recovery	Sample I.D.	spk conc	ACP%	%RC	1010-09	%RC	1012-84	%RC	1012-85
Dibromofluoromethane		50.0	75-125	103	98	98	99	99	97
Toluene-d8		50.0	75-125	99	96	96	97	97	107
4-Bromofluorobenzene		50.0	75-125	104	105	105	105	107	

Surrogate Recovery	Sample I.D.	spk conc	ACP%	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane		50.0	75-125						
Toluene-d8		50.0	75-125						
4-Bromofluorobenzene		50.0	75-125						

Analyzed By Mina Farag
 First Reviewer: J

Analyst Signature: MF
 Final Reviewer: CSB

8270 QA/QC Report for 0001010-9, 20

Matrix: **solid**

Date Analyzed: **10/13/00**

Unit: **(PPM)**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **01010-9**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
Phenol	0	80	77.1	96	82.2	103	6	75-125	0-20
Pyrene	0	40	48.1	120	44.6	112	8	75-125	0-20

LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP %MS
Phenol	80	77.0	96	75-125
Pyrene	80	78.7	98	75-125

SURROGATE RECOVERY:

PARAMETERS	spk conc	ACP%	%RC	%RC	%RC	%RC			
Sample I.D.			MB	01010-9	01010-20				
2-Fluorophenol	80	25-121	104	102	96				
Phenol-d5	80	24-113	105	94	100				
Nitrobenzene-d5	40	23-120	111	114	110				
2-Fluorobiphenyl	40	30-115	110	112	119				
2,4,6-Tribromophenol	80	19-122	54	68	46				
Terphenyl-d14	40	18-137	107	101	121				

Analyzed By: JOE SU

Analyst Signature: *Jee*

First Reviewer: *MF*

Final Reviewer: *CB*

**ENVIRO-CHEM, INC.
LABORATORIES**

1214 E. Lexington Ave.
Pomona, CA 91766

(909) 590-5905 • Fax: (909) 590-5907

CHAIN OF CUSTODY RECORD

Lab Project # _____

CA-DHS ELAP CERTIFICATE # 1555

DATE: 10-10-00

PAGE: 1 of 4

REPORT TO: AIR Associates Inc STREET: 50 E. Feather Blvd CITY: Arcadia TEL: (626) 447-5216 STATE: CA ZIP: 91006 FAX: (626) 447-7593		PROJECT NAME: WYVA Dairy - 5203 PROJECT CONTACT: Tim Case SAMPLER(S) SIGNATURE: <i>[Signature]</i>		TURN AROUND TIME DESIRED <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> Standard (2 Weeks) Others: _____ Confirmed By: _____			
SHIPPING INFORMATION: RELINQUISHED BY: (Signature) <i>[Signature]</i> RELINQUISHED BY: (Signature) _____ RELINQUISHED BY: (Signature) _____		AFTER ANALYSES, SAMPLES ARE TO BE: <input checked="" type="checkbox"/> DISPOSED OF <input type="checkbox"/> STORED (30 days) RETURNED TO CLIENT <input checked="" type="checkbox"/> OTHER: _____		DATE: 10/10/00 TIME: 1250p DATE: _____ TIME: _____ DATE: _____ TIME: _____			
SAMPLE I.D.	LAB I.D.	SAMPLING DATE/TIME	MATRIX	No of Containers	ANALYSIS REQUESTED	COMMENTS	Sample Stored Location
S-1-15	001010-9	10/10/00	Soil	1	8a50 (2) BTEX / MPE	Based on highest sample	
S-1-20	-10			1		Low full scan 8260 and 8270 (PNNs).	
S-1-25	-11			1		PC BTEX S-1	
S-1-30	-12			1			
S-1-35	-13			1			
S-1-40	-14			1			
S-1-45	-15			1			
S-1-50	-16			1			
S-1-60	-17			1			
S-1-65	-18			1			
S-1-70	-19			1			

REPORT TO: <u>ARC ASSOCIATES INC</u> STREET: <u>50 E. Gostwill Blvd</u> CITY: <u>Redlands</u> STATE: <u>CA</u> ZIP: <u>91006</u> TEL: (909) 447-5216 FAX: (626) 447-7583		PROJECT NAME: <u>Waterbury</u> PROJECT CONTACT: _____ SAMPLER(S) SIGNATURE: _____ Confirmed By: _____		TURN AROUND TIME DESIRED: <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 72 Hour <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> Others: _____		
SHIPPING INFORMATION: RELINQUISHED BY: (Signature) _____ RELINQUISHED BY: (Signature) _____ RELINQUISHED BY: (Signature) _____		AFTER ANALYSES, SAMPLES ARE TO BE: <input type="checkbox"/> DISPOSED OF <input type="checkbox"/> STORED (30 days) <input checked="" type="checkbox"/> RETURNED TO CLIENT <input type="checkbox"/> OTHER: _____ RECEIVED BY: (Signature) <u>Jessica Jim</u> DATE: <u>10/10/00</u> TIME: <u>12:50p</u> RECEIVED BY: (Signature) _____ DATE: _____ TIME: _____ RECEIVED BY: (Signature) _____ DATE: _____ TIME: _____		COMMENTS: <u>Based on highest sample from full scan 8260, 8270 ARC BREWS 5-3</u>		
SAMPLE I.D.	LAB I.D.	SAMPLING DATE/TIME	MATRIX	No of Containers	ANALYSIS REQUESTED	Sample Stored Location
<u>S-3-15</u>	<u>001010-20</u>	<u>101000</u>	<u>Soil</u>	<u>1</u>	<u>8019 (g), (l), (l), (l), (l), (l), (l), (l)</u>	
<u>S-3-20</u>	<u>-21</u>		<u>Soil</u>	<u>1</u>		
<u>S-3-25</u>	<u>-22</u>		<u>Soil</u>	<u>1</u>		
<u>S-3-30</u>	<u>-23</u>		<u>Soil</u>	<u>1</u>		
<u>S-3-35</u>	<u>-24</u>		<u>Soil</u>	<u>1</u>		
<u>S-3-40</u>	<u>-25</u>		<u>Soil</u>	<u>1</u>		
<u>S-3-45</u>	<u>-26</u>		<u>Soil</u>	<u>1</u>		
<u>S-3-50</u>	<u>-27</u>		<u>Soil</u>	<u>1</u>		
<u>S-3-55</u>	<u>-28</u>		<u>Soil</u>	<u>1</u>		
<u>S-3-60</u>	<u>-29</u>	<u>X</u>	<u>Soil</u>	<u>1</u>		

**ENVIRO-CHEM, INC.
LABORATORIES**

1214 E. Lexington Ave.
Pomona, CA 91766

(909) 590-5905 • Fax: (909) 590-5907

CHAIN OF CUSTODY RECORD

Lab Project # _____

CA-DHS ELAP CERTIFICATE # 1555

DATE: 10-10-00

PAGE: 3 of 4

REPORT TO: <u>ARC Associates DE</u>		PROJECT NAME: <u>Western Dairy</u>		TURN AROUND TIME DESIRED <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> Others: _____	
STREET: <u>50 E. Foothill Blvd</u>		PROJECT CONTACT: <u>Tom</u>		RETURNED TO CLIENT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO OTHER: _____	
CITY: <u>Redland</u>		STATE: <u>CA</u> ZIP: <u>91006</u>		By: _____ Confirmed	
TEL: (626) 447-5210		FAX: (626) 447-7593		DATE: <u>10/10/00</u> TIME: <u>1250pm</u>	
SHIPPING INFORMATION:		AFTER ANALYSES, SAMPLES ARE TO BE: <input type="checkbox"/> DISPOSED OF <input type="checkbox"/> STORED (30 days)		DATE: _____ TIME: _____	
RELINQUISHED BY: (Signature) <u>[Signature]</u>		RECEIVED BY: (Signature) <u>Jessica</u>		DATE: _____ TIME: _____	
RELINQUISHED BY: (Signature) _____		RECEIVED BY: (Signature) _____		DATE: _____ TIME: _____	
RELINQUISHED BY: (Signature) _____		RECEIVED BY: (Signature) _____		DATE: _____ TIME: _____	

SAMPLE I.D.	LAB I.D.	SAMPLING DATE/TIME	MATRIX	No of Containers	ANALYSIS REQUESTED	COMMENTS	Sample Stored Location
S-2-15	0001010-30	10-10-00	Soil	1	8015(G), (K) / 616X / 1115E	Boxed on highest	
S-2-20	-31			1		Sample can full	
S-2-25	-32			1		Scan 8260, 8270 (MID)	
S-2-30	-33			1		ARC Boring 5-B	
S-2-35	-34			1			
S-2-40	-35			1			
S-2-45	-36			1			
S-2-50	-37			1			
S-2-55	-38			1			
S-2-60	-39			1			
S-2-65	-40			1			

**ENVIRO-CHEM, INC.
LABORATORIES**

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Pomona, CA 91766

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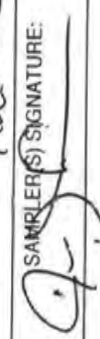

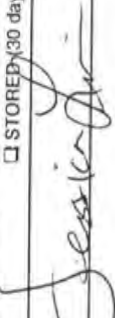
CHAIN OF CUSTODY RECORD

Lab Project # _____

CA-DHS ELAP CERTIFICATE # 1555

DATE: 10/10/00

PAGE: 4 of 4

REPORT TO: <i>ACE Business Inc</i> STREET: <i>50 E. Feather Hill Blvd</i> CITY: <i>Acadia</i> STATE: <i>Ca</i> ZIP: <i>91006</i> TEL: <i>(626) 449-5214</i> FAX: <i>(626) 7553</i>		PROJECT NAME: <i>Westra Dairy</i> PROJECT CONTACT: <i>Tina C</i> SAMPLER(S) SIGNATURE: 		TURN AROUND TIME DESIRED <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> Others: _____ Confirmed By: _____			
SHIPPING INFORMATION: RELINQUISHED BY: (Signature)  <input type="checkbox"/> DISPOSED OF RELINQUISHED BY: (Signature) _____ <input type="checkbox"/> STORED (30 days) RELINQUISHED BY: (Signature) _____		AFTER ANALYSES, SAMPLES ARE TO BE: <input checked="" type="checkbox"/> RETURNED TO CLIENT <input type="checkbox"/> OTHER: _____		RECEIVED BY: (Signature)  DATE: <i>10/10/00</i> TIME: <i>12:50P</i> RECEIVED BY: (Signature) _____ DATE: _____ TIME: _____ RECEIVED BY: (Signature) _____ DATE: _____ TIME: _____			
SAMPLE I.D.	LAB I.D.	SAMPLING DATE/TIME	MATRIX	No of Containers	ANALYSIS REQUESTED	COMMENTS	Sample Stored Location
<i>S-2-70</i>	<i>001010</i>	<i>10/10/00</i>	<i>Soil</i>	<i>1</i>	<i>8215 (el) / BTEX / MIBK</i>	<i>Based on highest sample, but full scan</i>	
						<i>8260, 8270 (PN9)</i>	
						<i>for heavy SZ</i>	

APPENDIX B

CRWQCB LETTER DATED SEPTEMBER 26,2000



California Regional Water Quality Control Board

Santa Ana Region

Winston H. Hickox
Secretary for
Environmental
Protection

626
447-7593

Internet Address: <http://www.swrcb.ca.gov>
3737 Main Street, Suite 500, Riverside, California 92501-3339
Phone (909) 782-4130 • FAX (909) 781-6288



September 26, 2000

Mr. Cal Westra
Westra Family Trust
870 North Sanderson Avenue
San Jacinto, California 92582

**SUBJECT: WESTRA DAIRY FARM TANKS
870 NORTH SANDERSON AVENUE
SAN JACINTO, CALIFORNIA 92582
UST CASE NO. 083303601T**

Dear Mr. Westra:

We have reviewed the *Site Investigation Workplan* dated August 4, 2000. Your consultant, ATC Associates Inc. (ATC), prepared this plan. The objectives of the proposed investigation are to delineate the lateral and vertical extent of soil contamination.

In the workplan, ATC proposes to drill three borings to a minimum depth of 60 feet and collect soil samples for analysis. Based on our review, we approve the workplan for site investigation with the following conditions:

- The worst-case soil sample based on the EPA Method 8015 sample results must be analyzed using EPA Method 8260, full scan including all fuel oxygenates and alcohols, in addition to the semi-volatile analysis proposed.
- To consider the site fully assessed, a minimum of 30 feet of clean soil must be delineated beneath the deepest contamination.

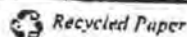
Please submit the results of the assessment to this office by November 15, 2000. Please submit copies of all correspondence to Ms. Sharon Boltinghouse at the County of Riverside. If you have any questions, please call me at (909) 320-6375.

Sincerely,

Rose Scott
Associate Engineering Geologist
Pollutant Investigation Section

cc: Sharon Boltinghouse, County of Riverside
Ed McGlothlin, Consolidated Waste Industries, Inc.

California Environmental Protection Agency





50 East Foothill Boulevard
Arcadia, California 91006
www.atc-enviro.com
626.447.5216
Fax 626.447.7593

8/11/00
KRW
25

August 4, 2000

Mr. Kenneth Williams
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

**RE: SITE INVESTIGATION WORKPLAN
WESTRA DAIRY FARMS
870 NORTH SANDERSON
SAN JACINTO, CALIFORNIA
ATC PROJECT NUMBER 12077.5203**

Dear Mr. Williams:

ATC Associates Inc (ATC) has been requested to submit this Workplan on behalf of our client, Consolidated Waste Industries (CWI) to comply with a fax memo dated July 6, 2000 by Rose Scott of the California Regional Water Quality Control Board, Santa Ana Region.

This Site Investigation Workplan describes the work to be performed to determine the approximate extent of soil contamination at the above referenced Site (Drawing 1). On December 14, 1999 ATC Associates Inc. (ATC) observed the removal of three underground storage tanks (1-10,000 gallon diesel, 2-1,000 gallon gasoline). Eight soil samples taken directly below the tanks indicated elevated analytical concentration of gasoline as high as 5,290 milligrams per kilogram (mg/Kg) and diesel as high as 2,360 mg/Kg. Laboratory results also indicated Methyl-tertiary butyl ether (MTBE) in six of the eight soil samples from the tank field in concentrations ranging from non-detect (ND) to 519 mg/Kg.

ATC recommends that three soil borings be advanced to a maximum depth of 60 feet to determine the approximate vertical and lateral extent of contamination at the site (Drawing 2).

SCOPE OF WORK

Soil Borings and Analysis

ATC proposes to drill and sample three soil borings on the subject property to a maximum depth of sixty feet. A hollow stem auger-drilling rig (CME 75 or equivalent) will perform the drilling. Soil samples will be collected at five-foot intervals beginning at 15 feet. All soil samples will be collected in brass tubes and as required by state and local agencies. Chain of custody protocol will be followed. Monitoring for volatile organic compounds (VOCs) will be conducted throughout field drilling and sampling operations.

Laboratory Analysis


All soil samples will be analyzed for Carbon Chain Analysis by EPA Method 8015 (Mod) and for aromatic hydrocarbons (BTEX) by EPA Method 8021B. Methyl tertiary butyl ether (MTBE) and additional oxygenates will be analyzed by EPA Method 8260B. Semi-volatiles including polynuclear aromatics (PNA), will be analyzed by EPA Method 8270 will be run only on the sample with the highest laboratory result from each borehole.

SCHEDULE

Upon written notification of the Workplan approval, ATC intends to initiate field operations within five working days. ATC anticipates a 15-day completion time for this project.

Should you have any questions regarding this Workplan, please contact the undersigned at (626) 447-5216.

Sincerely,



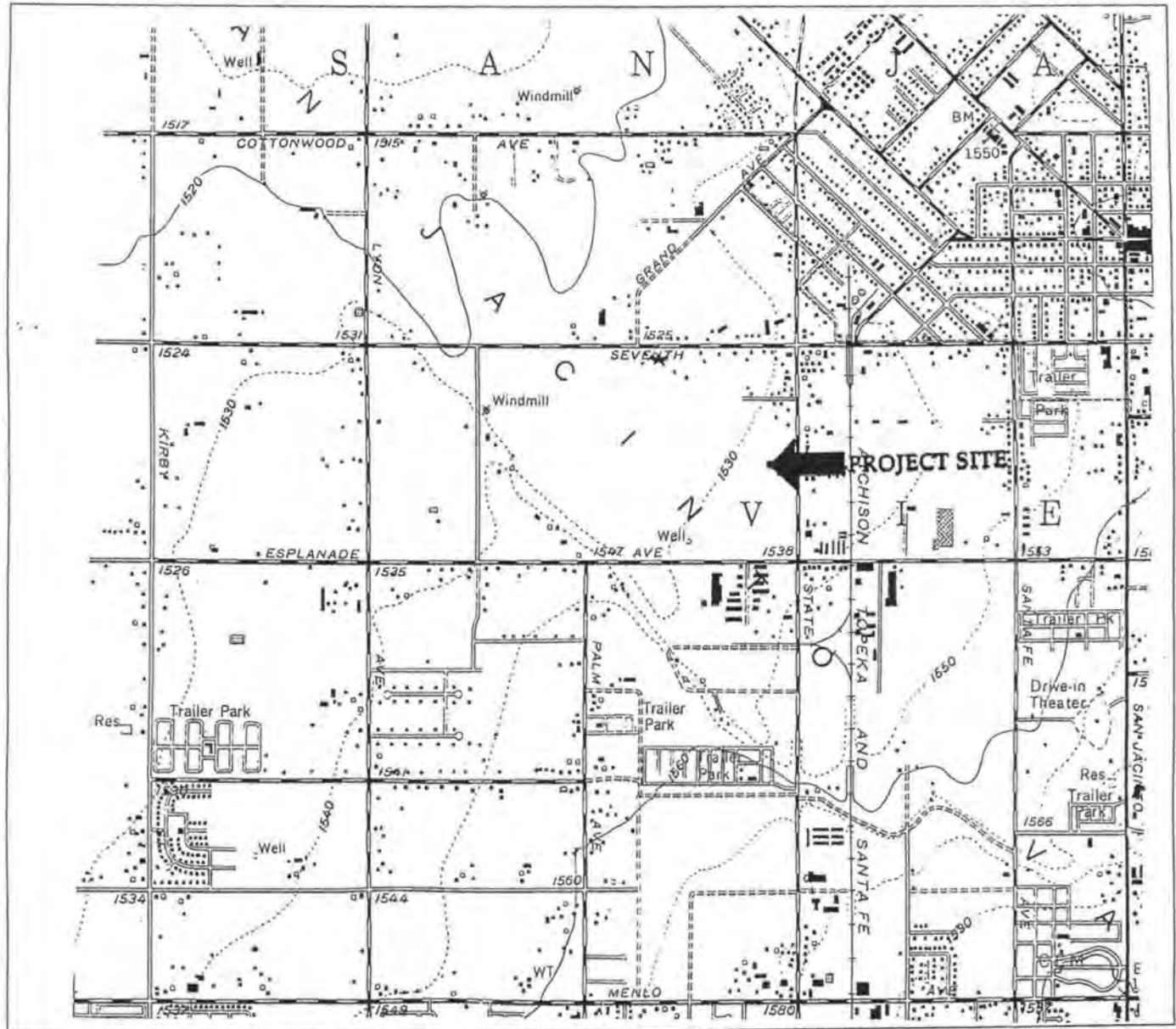
Ed McGlothlin
Project Manager



Timothy J. Lane
Project Geologist



Keith G. Farrell, CEG #1314
Branch Manager



FROM USGS 7.5 MINUTE QUADRANGLE, SAN JACINTO, CALIFORNIA (1953, PHOTOREVISED 1979)



SITE LOCATION MAP

PROJECT NAME:

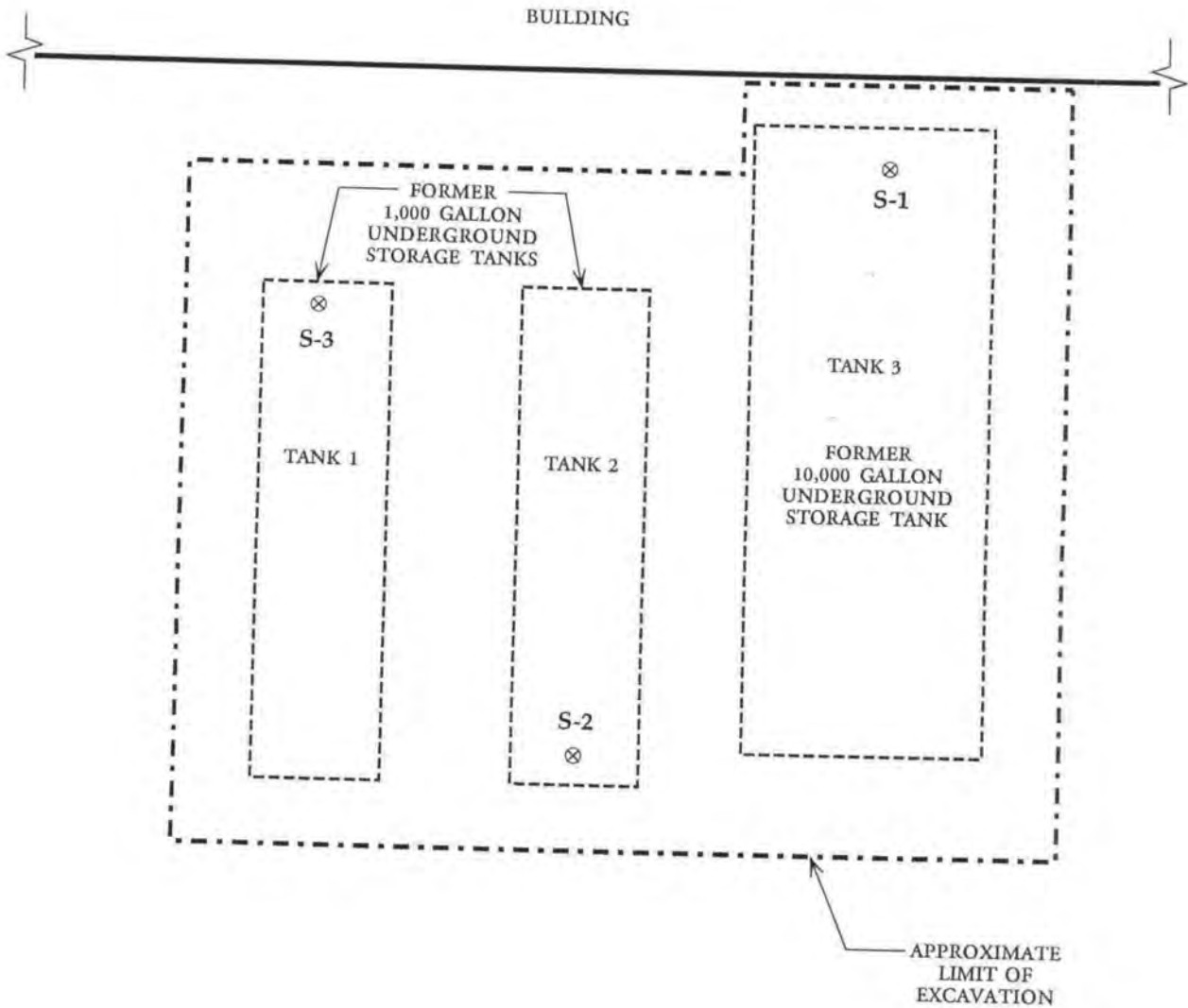
WESTRA DAIRY
870 SANDERSON
SAN JACINTO, CALIFORNIA

PROJECT NO: 52.12077.5203



DRAWING

1
OF 2



PROPOSED DRILLING LOCATIONS

APPROXIMATE SCALE: 1" = 10'



LEGEND:

S-3 ⊗ = PROPOSED SAMPLE LOCATIONS

PROJECT NAME: WESTRA DAIRY
870 SANDERSON
SAN JACINTO, CALIFORNIA

PROJECT NO. 52.12077.5203



DRAWING
2
OF 2

**APPENDIX A
SAMPLING PROCEDURES**



REGION B
KRW
RTS

4909 Fir Avenue, Seal Beach, California 90740 - Phone: (562) 799-7799 - Fax: (562) 799-6199

June 6, 2001
Project 1016-870-1.001

Ms. Rose Scott
Santa Ana Regional Water Quality Control Board
3737 Main Street, Suite 500
Riverside, California 92501-3348

Re: Well Installation and Vapor Extraction Testing
Westra Dairy Farm
870 North Sanderson Avenue
San Jacinto, California
UST Case No. 083303601T

Dear Ms. Scott:

Stratus Environmental, Inc. (Stratus) is pleased to submit this report presenting the results of the installation of one vapor extraction well (VE-1) and completion of a vapor extraction test (VET) at Westra Dairy Farm located at 870 North Sanderson Avenue, San Jacinto, California. The work was completed in accordance with Stratus' Workplan for Vapor Extraction Testing dated March 26, 2001. The Santa Ana Regional Water Quality Control Board (RWQCB) subsequently approved the Workplan in a letter dated April 9, 2001.

Brief Site Background

On February 21, 2000, ATC Associates, Inc. (ATC) submitted an Underground Storage Tank (UST) Closure Summary Report that presented analytical results of soil samples collected from beneath the former USTs. ATC's evaluation of the analytical results indicated that the soil beneath the former USTs was impacted with petroleum hydrocarbons. ATC recommended that a site assessment be completed to characterize the extent of petroleum hydrocarbon-impacted soil detected beneath the former USTs.

On October 10, 2000, ATC advanced three soil borings (S-1, S-2, and S-3) in the vicinity of the former USTs (Figure 2). Soil borings S-1 and S-2 were advanced to 70 feet below ground surface (bgs). Soil boring S-3 was advanced to 60 feet bgs. Soil samples were collected for laboratory analysis at 5-foot intervals beginning at 15 feet bgs to the total depth of the boring. Soil lithology within the borings was reported as alluvial deposits consisting of unconsolidated sands and gravel from the surface to the total depth of each

boring. Groundwater was not encountered and is reported to exist regionally at a depth of approximately 120 feet bgs (ATC, 2000).

Soil samples collected from boring S-2, located near the southern end of the former middle UST did not contain detectable petroleum hydrocarbons. Samples collected from 15 and 20 feet bgs in boring S-3, located on the northern end of the former western UST, contained low concentrations of total petroleum hydrocarbons as gasoline (TPHg; 0.147 milligrams per kilogram [mg/kg]), benzene (maximum 0.009 mg/kg), toluene (maximum 0.031 mg/kg), xylenes (0.012 mg/kg), and methyl tert-butyl ether (MTBE; maximum 0.186). Petroleum hydrocarbons were not detected in soil samples collected from 25 to 60 feet bgs in boring S-3 (ATC, 2000). Table 1 summarizes the analytical results for soil samples collected from borings S-1, S-2, and S-3.

The highest concentrations of adsorbed-phase petroleum hydrocarbons were detected between 5 and 35 feet bgs in boring S-1 located on the north side of the former eastern UST. Maximum concentrations of TPHg (2,710 mg/kg), toluene (131 mg/kg), xylenes (486 mg/kg), and MTBE (169 mg/kg by EPA Method 8021b) were detected in the sample collected immediately beneath the former UST at 15 feet bgs (ATC, 2000).

Well Installation and Vapor Extraction Testing

Based on the findings presented in ATC's Site Investigation Report dated October 30, 2000, the RWQCB recommended that a vapor extraction test be conducted in order to evaluate the mass of petroleum hydrocarbons in the soil available for vapor recovery (RWQCB letter dated December 5, 2000). Based on this recommendation, Stratus installed on vapor extraction well and performed a vapor extraction test. The field activities and findings are presented below.

Vapor Extraction Well Installation

On May 7, 2001, a Stratus Staff Geologist was on site to supervise and direct the installation of one vapor extraction well (VE-1) located in the northern portion of the former eastern UST (Figure 2). The boring was advanced using a hollow stem auger-equipped drill rig. Soil samples were collected during the advancement of the boring by driving a modified California-type, split-spoon sampler into undisturbed soil using a 140-pound slide hammer falling 30 inches (blow count). Soil samples were collected at 5-foot intervals for field screening using a photoionization detector (PID) and for classification using the Unified Soil Classification System.

The vapor extraction well was constructed using 2-inch diameter PVC casing with a 0.02-inch slotted well screen installed from approximately 10 to 20 feet bgs. Number 3 Monterey Sand was used as a filter pack around the slotted interval. Bentonite chips were used to seal the annular space of the blank well casing from approximately 2 to 9 feet bgs. A concrete seal and traffic rated well box was installed at the surface. The boring log and well construction details are included in Attachment A.

Soil generated during drilling was placed in a DOT-approved 55-gallon drum and temporarily stored onsite until arrangements for disposal are made.

Vapor Extraction Test

Immediately following well installation on May 7, 2001, a mobile soil vapor extraction (SVE) system was used to extract soil vapors from vapor extraction well VE-1. The SVE system, provided by EnviroSupply and Service of Fountain Valley, California, used vapor phase carbon to treat the extracted soil vapors prior to discharge to the atmosphere. A technician monitored the system, collected critical system parameters (flow rate, vapor concentrations, applied vacuum, etc), and maintained system operation for 7 hours. Vapor samples were collected for laboratory analysis at system startup, at mid-point, and at the end of the vapor extraction test. Field data collected during the VET is summarized in Table 2.

Vapor samples collected during the VET were analyzed by a state certified laboratory for volatile fuel hydrocarbons (VFH) using EPA Method 8015B, and for benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tert-butyl ether (MTBE) using EPA Method 8260B. The certified analytical report is included in Attachment B.

Findings and Conclusions

Soil encountered at well VW-1 consisted of UST fill material (silty sand) from grade surface to approximately 10 feet bgs. Fine to medium grained sand and sand with silt was encountered between approximately 10 and 20 feet bgs. The boring log is included in Attachment A.

At an average applied vacuum of 11.4 inches of mercury, the average vapor extraction flow rate during the seven hour test was approximately 30 standard cubic feet per minute.

Westra Dairy Farm
June 6, 2001
Page 4

Based on the flow rate, laboratory results, and time of operation, an estimated 9.55 pounds of vapor-phase hydrocarbons were removed during the test (Table 2).

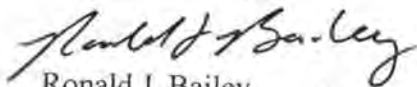
As indicated in Tables 2 and 3, varying concentrations of VFH, BTEX, and MTBE were detected in influent vapor samples collected during SVE operation. The highest concentrations of VFH, BTEX, and MTBE were reported in the vapor sample collected at the mid-point of the test. The hydrocarbon concentrations reduced by the end of 7 hours of extraction. Based on the cumulative mass destroyed during the VET, it is estimated that 32.7 pounds of VFH would be removed by the SVE system in a 24-hour period. This assumes that the influent hydrocarbon concentrations remain constant over that period. It is anticipated that the influent hydrocarbon concentrations and resulting hydrocarbon removal rate would significantly decrease within a short period of time.

Based on the results of the vapor extraction test, the previous site assessments, the estimated vertical column of clean soil between known hydrocarbon-impacted soil and the reported depth to groundwater (below 120 feet bgs), and the current land use (agricultural/farming), this site should be closed to further assessment and remediation.

If you have any questions, please call Ronald Bailey at (714) 670-2092.

Sincerely,

STRATUS ENVIRONMENTAL, INC.



Ronald J. Bailey
Project Manager



Dan Herlihy
California Registered Geologist



- Attachments:
- Table 1 – Summary of Soil Analytical Results
 - Table 2 – Summary of Vapor Extraction Test Results
 - Table 3 – Summary of Vapor Sample Analytical Results
 - Figure 1 - Site Location Map
 - Figure 2 – Site Plan
 - Attachment A – Boring Log and Well Details
 - Attachment B – Certified Analytical Report

Westra Dairy Farm
June 6, 2001
Page 5

References

ATC, 2000. *Site Investigation*, Westra Dairy, 870 Sanderson Avenue, San Jacinto, CA. ATC Associates, Inc., Arcadia, CA. October 30.

TABLE 1
Summary of Soil Analytical Results

Westra Dairy Farm
San Jacinto, CA

Boring ID	Depth (feet)	8015g (mg/kg)	8015d (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE* (mg/kg)
S-1	15	2710	ND	ND	131	ND	486	169
	20	3.5	ND	ND	0.179	ND	0.375	3.13
	25	ND	ND	ND	0.008	ND	0.015	0.028
	30	ND	ND	ND	ND	ND	ND	ND
	35	0.497	ND	ND	0.0021	0.012	0.158	0.027
	40	ND	ND	ND	ND	ND	ND	ND
	45	ND	ND	ND	ND	ND	ND	ND
	50	ND	ND	ND	ND	ND	ND	ND
	55	ND	ND	ND	ND	ND	ND	ND
	60	ND	ND	ND	ND	ND	ND	0.089
	65	ND	ND	ND	ND	ND	ND	ND
	70	ND	ND	ND	ND	ND	ND	ND
	S-2	15	ND	ND	ND	ND	ND	ND
20		ND	ND	ND	ND	ND	ND	ND
25		ND	ND	ND	ND	ND	ND	ND
30		ND	ND	ND	ND	ND	ND	ND
35		ND	ND	ND	ND	ND	ND	ND
40		ND	ND	ND	ND	ND	ND	ND
45		ND	ND	ND	ND	ND	ND	ND
50		ND	ND	ND	ND	ND	ND	ND
55		ND	ND	ND	ND	ND	ND	ND
60		ND	ND	ND	ND	ND	ND	ND
S-3	15	0.147	ND	0.009	0.031	ND	0.012	0.186
	20	ND	ND	0.006	0.005	ND	ND	0.047
	25	ND	ND	ND	ND	ND	ND	ND
	30	ND	ND	ND	ND	ND	ND	ND
	35	ND	ND	ND	ND	ND	ND	ND
	40	ND	ND	ND	ND	ND	ND	ND
	45	ND	ND	ND	ND	ND	ND	ND
	50	ND	ND	ND	ND	ND	ND	ND
	55	ND	ND	ND	ND	ND	ND	ND
	60	ND	ND	ND	ND	ND	ND	ND

Notes:

Data incorporated from ATC Associates, Inc. Site Investigation Report dated Oct. 30, 2000

ND = Not detected

mg/kg = milligrams/ kilogram

MTBE* = methyl tert-butyl ether (analyzed by EPA Method 8021B)

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8021B.

TABLE 2
Summary of Vapor Extraction Test Results

Westra Dairy Farm
 San Jacinto, CA

Cumulative Operational Time (Hours)	Total Vacuum (in Hg)	Flow Rate (scfm)	TVH Concentration (Before Dilution) (ppmv)*	Benzene Concentration (Before Dilution) (ppmv)*	MTBE Concentration (Before Dilution) (ppmv)*	TVH Mass Destroyed (lbs)**	Cumulative TVH Mass Destroyed (lbs)**
0.25	11.5	30.8	(3,000)	(14)	(400)	0.37	0.37
0.5	11.5	29.8	1,320	NA	NA	--	--
0.75	11.5	30.0	1,364	NA	NA	--	--
1.0	12.0	32.7	1,278	NA	NA	--	--
1.5	11.5	30.7	1,357	NA	NA	--	--
2.0	11.5	30.7	1,354	NA	NA	--	--
2.5	11.0	31.0	1,366	NA	NA	--	--
3.0	11.0	31.3	1,573	NA	NA	--	--
3.5	11.0	8.4	1,059	NA	NA	--	--
4.0	11.0	32.4	(3,000)	(27)	(410)	5.13	5.49
4.5	11.0	31.6	1,854	NA	NA	--	--
5.0	11.5	31.8	1,726	NA	NA	--	--
5.5	11.5	32.5	1,708	NA	NA	--	--
6.0	11.5	32.4	1,693	NA	NA	--	--
6.5	11.5	32.5	1,604	NA	NA	--	--
7.0	11.5	32.4	(2,300)	(17)	(270)	4.06	9.55

Notes:

PID calibrated to 100 ppmv Hexane

TVH Mass Recovery Calculation:

$$\frac{(\text{ppmV})(60\text{min/hr})(\text{hrs})(\text{SCFM})(100 \text{ lb/lb-mole})}{(1 \times 10^5)(379 \text{ ft}^3/\text{lb-mole})}$$

lbs. TVH =

$$(1 \times 10^5)(379 \text{ ft}^3/\text{lb-mole})$$

* = TVH, Benzene, and MTBE values in parenthesis are laboratory analytical results.

** = TVH mass destroyed is calculated using TVH laboratory analytical results.

ppmV = concentration in "Parts per Million by Volume"

TVH = total volatile hydrocarbon

SCFM = flow rate in Standard Cubic Feet per Minute

NA = not analyzed

-- = not applicable.

100 lb/lb-mole = average molar weight of gasoline

379 ft³/lb-mole = molar gasoline volume at 60°F and 1 atmosphere

TABLE 3
Summary of Vapor Sample Analytical Results

Westra Dairy Farm
 San Jacinto, CA

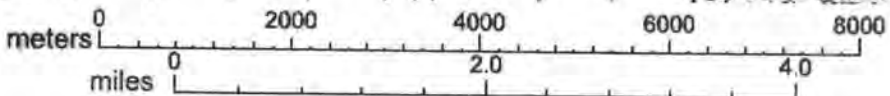
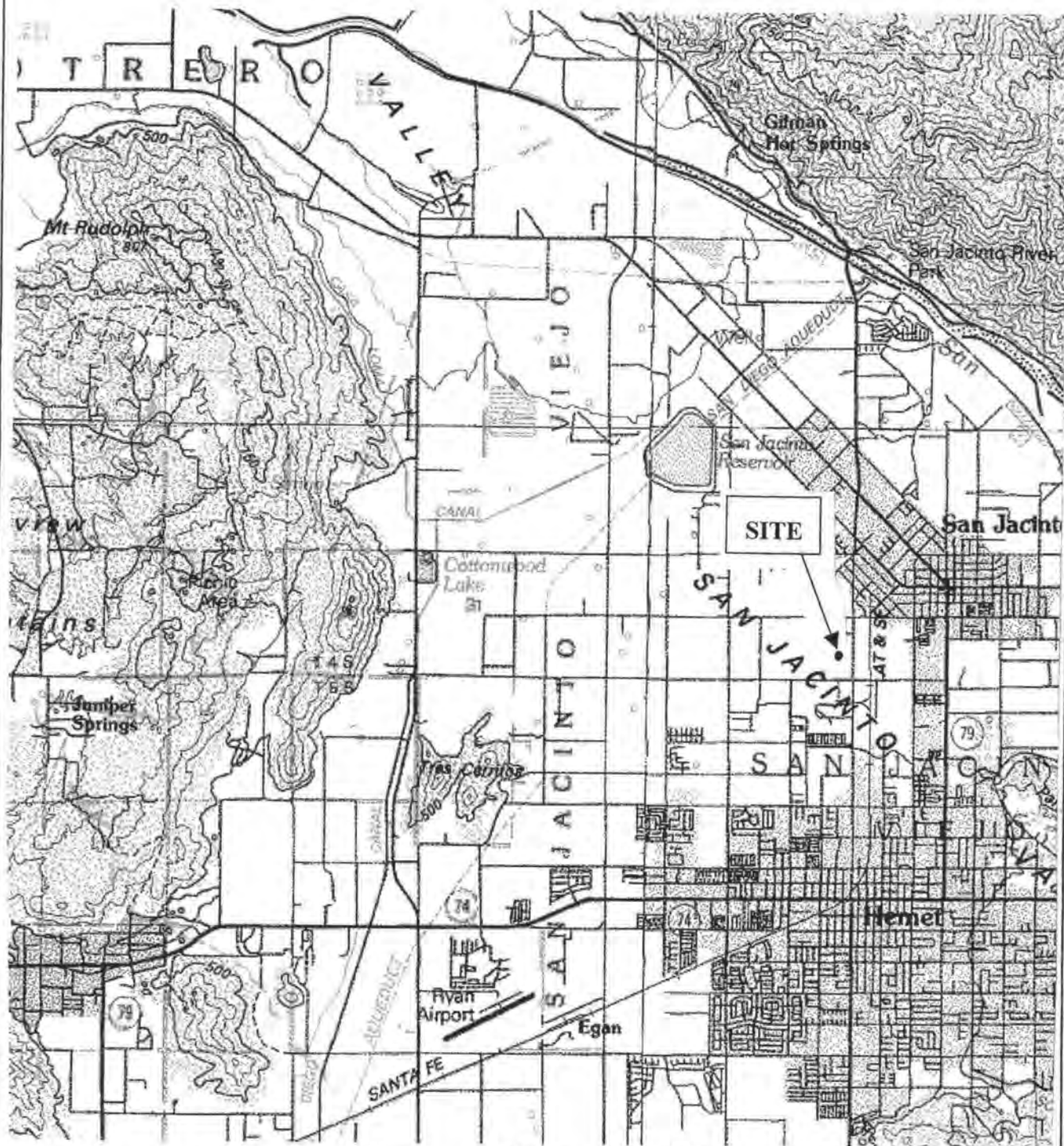
Sample ID	Date Collected	VFH (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	Methl <i>tert</i> -Butyl Ether (ppmv)	Lab
U.S. EPA Methods		8015M	8260B					Lab
VE-1 START	5/7/01	3,000	14	70	14	83	400	Del Mar
VE-1-MID	5/7/01	3,000	27	120	23	139	410	Del Mar
VE-1-END	5/7/01	2,300	17	57	ND<9.2	24	270	Del Mar

Notes:

VFH = Volatile fuel hydrocarbons

Del Mar = Del Mar Analytical, Inc., Irvine, California

ppmv = parts per million by volume



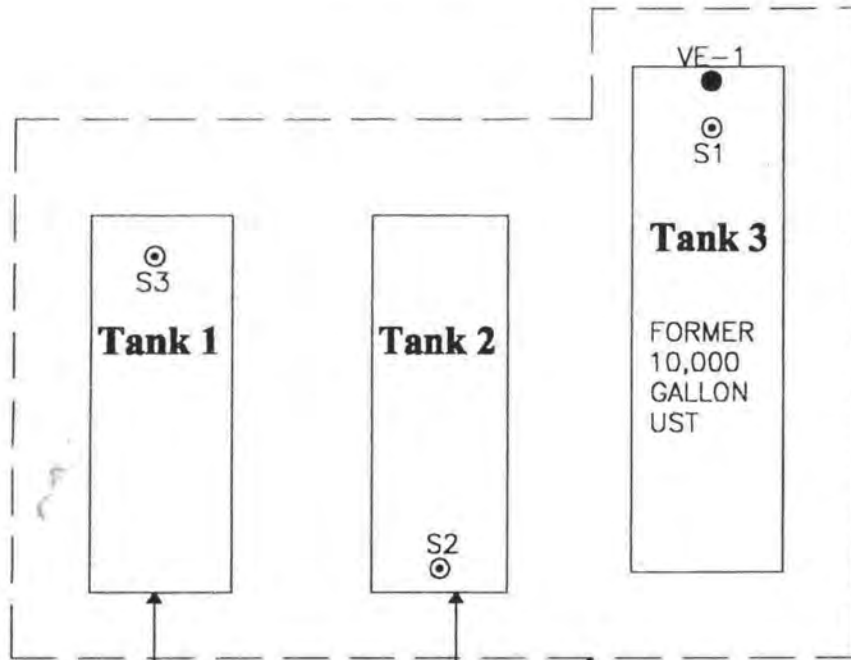
STRATUS
ENVIRONMENTAL, INC.

WESTRA DAIRY FARM
870 NORTH SANDERSON AVENUE
SAN JACINTO, CALIFORNIA

SITE LOCATION MAP

FIGURE
1
PROJECT NO.
01-0313

Building



FORMER
1,000 GALLON
USTs

APPROXIMATE
LIMIT OF
EXCAVATION

Legend

VE-1 ● Vapor extraction well

S1 ⊙ Soil boring location



NOTE: FIGURE NOT TO SCALE



**WESTRA DAIRY FARM
870 NORTH SANDERSON AVE.
SAN JACINTO, CALIFORNIA**

SITE PLAN

FIGURE

2

**PROJECT NO.
1016-870-1**

Westra Dairy Farm
June 6, 2001
Page 6

ATTACHMENT A

Boring Log and Well Details



SOIL BORING LOG

Boring No. VE-1

Sheet 1 of 1

Client: Westra Dairy Date: 5/7/01
 Address: San Jacinto, CA Drilling Company: Cascade rig type: H.S.A. / CMG
 Project No.: 1016-870-1 Driller: _____
 Logged By: EPAK Method: H.S.A. hole diam.: 8"
 Well Pack: sand: 9 ft. to 20ft. #3 Well Construction casing: 0-10' screen interval: 10-20'
 bent: 2 ft. to 9 ft chips casing diam.: 2" screen slot size: 0.02"
 grout: _____ ft. to _____ ft. Depth to GW: first encountered groundwater NA static groundwater NA

Sample Type	Sample No.	Blow Count	Sample		Well Constr. ct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1	UST Fill Material (~0-10')		
						2			
						3			
						4			
						5	Sm Silty Sand; lt to med. brown; fine grained; moist	1473	
						6			
						7			
						8			
						9			
						10	SP Sand w/ silt; dk graysh brn; fine sand w/ trace med + crs sd; sil micaceous; moist	1280	
						11			
						12			
						13			
						14			
						15	Sm/SP Sand w/ silt; lt. gray-brn; fine-med. grain sand; interbeds of silt + clay; moist	1640	
						16			
						17			
						18			
						19			
						20	As Above	1115	

Blank casing 2" dia.

0.02" slot well screen

Comments:

TD = 20 ft. bgs
 Drilled on N. side of former E. UST



Westra Dairy Farm
June 6, 2001
Page 7

ATTACHMENT B
Certified Analytical Report

Stratus Environmental, Inc. 6481 Orangethorpe, Suite 8 Buena Park, CA 90620 Attention: Ron Bailey	Project ID: Westra Dairy Farm San Jacinto, CA Report Number: IKE0236	Sampled: 05/07/01 Received: 05/08/01
--	--	---

VOLATILE FUEL HYDROCARBONS in Air (EPA 8015B MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/m ³	mg/m ³				
Sample ID: IKE0236-01 (VE-1-START - Air)								
Volatile Fuel Hydrocarbons	EPA 8015B MOD	I1E0830	20	12000	2	5/8/01	5/8/01	QG
Sample ID: IKE0236-02 (VE-1-MID - Air)								
Volatile Fuel Hydrocarbons	EPA 8015B MOD	I1E0830	200	12000	20	5/8/01	5/8/01	QG
Sample ID: IKE0236-03 (VE-1-END - Air)								
Volatile Fuel Hydrocarbons	EPA 8015B MOD	I1E0830	200	9300	20	5/8/01	5/8/01	QG

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

LABORATORY REPORT

Prepared For: Stratus Environmental, Inc.
6481 Orangethorpe, Suite 8
Buena Park, CA 90620

Attention: Ron Bailey
Project: Westra Dairy Farm
San Jacinto, CA

Sampled: 05/07/01
Received: 05/08/01
Reported: 05/11/01

*This laboratory report is confidential and is intended for the sole use of
Del Mar Analytical and its client. This entire report was reviewed and approved for release.*

CA ELAP Certificate #1197
AZ DHS License #AZ0428



Del Mar Analytical, Irvine
Pat Abe
Project Manager

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except in full, without written permission from Del Mar Analytical.*

IKE0236 <Page 1 of 10>

Stratus Environmental, Inc. 6481 Orangethorpe, Suite 8 Buena Park, CA 90620 Attention: Ron Bailey	Project ID: Westra Dairy Farm San Jacinto, CA Report Number: IKE0236	Sampled: 05/07/01 Received: 05/08/01
--	--	---

VOLATILE FUEL HYDROCARBONS in Air (EPA 8015B MOD.)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ppmv	ppmv				
Sample ID: IKE0236-01 (VE-1-START - Air)								
Volatiles Fuel Hydrocarbons ppmv	EPA 8015B MOD11E0830		4.8	3000	2	5/8/01	5/8/01	QV
Sample ID: IKE0236-02 (VE-1-MID - Air)								
Volatiles Fuel Hydrocarbons ppmv	EPA 8015B MOD11E0830		48	3000	20	5/8/01	5/8/01	QV
Sample ID: IKE0236-03 (VE-1-END - Air)								
Volatiles Fuel Hydrocarbons ppmv	EPA 8015B MOD11E0830		48	2300	20	5/8/01	5/8/01	QV

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

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Stratus Environmental, Inc.
 6481 Orangethorpe, Suite 8
 Buena Park, CA 90620
 Attention: Ron Bailey

Project ID: Westra Dairy Farm
 San Jacinto, CA
 Report Number: IKE0236

Sampled: 05/07/01
 Received: 05/08/01

BTEX and MTBE in Air by GC/MS (EPA 5030B/8260B MOD)

Analyte	Method	Batch	Reporting	Sample	Dilution	Date	Date	Data
			Limit	Result				
			mg/m ³	mg/m ³				
Sample ID: IKE0236-01 (VE-1-START - Air)								
Benzene	EPA 8260B MOD11E0822		40	46	10	5/8/01	5/9/01	
Ethylbenzene	EPA 8260B MOD11E0822		40	60	10	5/8/01	5/9/01	
Toluene	EPA 8260B MOD11E0822		40	260	10	5/8/01	5/9/01	
o-Xylene	EPA 8260B MOD11E0822		40	95	10	5/8/01	5/9/01	
m,p-Xylenes	EPA 8260B MOD11E0822		40	260	10	5/8/01	5/9/01	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B MOD11E0822		100	1400	10	5/8/01	5/9/01	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				96.4 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				99.0 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				94.2 %				
Sample ID: IKE0236-02 (VE-1-MID - Air)								
Benzene	EPA 8260B MOD11E0822		40	85	10	5/8/01	5/9/01	
Ethylbenzene	EPA 8260B MOD11E0822		40	100	10	5/8/01	5/9/01	
Toluene	EPA 8260B MOD11E0822		40	460	10	5/8/01	5/9/01	
o-Xylene	EPA 8260B MOD11E0822		40	170	10	5/8/01	5/9/01	
m,p-Xylenes	EPA 8260B MOD11E0822		40	450	10	5/8/01	5/9/01	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B MOD11E0822		100	1500	10	5/8/01	5/9/01	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				98.0 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				100 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				95.0 %				
Sample ID: IKE0236-03 (VE-1-END - Air)								
Benzene	EPA 8260B MOD11E0822		40	54	10	5/8/01	5/8/01	
Ethylbenzene	EPA 8260B MOD11E0822		40	ND	10	5/8/01	5/8/01	
Toluene	EPA 8260B MOD11E0822		40	220	10	5/8/01	5/8/01	
o-Xylene	EPA 8260B MOD11E0822		40	ND	10	5/8/01	5/8/01	
m,p-Xylenes	EPA 8260B MOD11E0822		40	100	10	5/8/01	5/8/01	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B MOD11E0822		100	990	10	5/8/01	5/8/01	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				99.2 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				99.8 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				95.0 %				

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

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Stratus Environmental, Inc.
 6481 Orangethorpe, Suite 8
 Buena Park, CA 90620
 Attention: Ron Bailey

Project ID: Westra Dairy Farm
 San Jacinto, CA
 Report Number: IKE0236

Sampled: 05/07/01
 Received: 05/08/01

BTEX and MTBE in Air by GC/MS (EPA 5030B/8260B MOD.)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
				ppmv	ppmv			
Sample ID: IKE0236-01 (VE-1-START - Air)								
Benzene ppmv	EPA 8260B MOD11E0822		13	14	10	5/8/01	5/9/01	
Ethylbenzene ppmv	EPA 8260B MOD11E0822		9.2	14	10	5/8/01	5/9/01	
Toluene ppmv	EPA 8260B MOD11E0822		11	70	10	5/8/01	5/9/01	
o-Xylene ppmv	EPA 8260B MOD11E0822		9.2	22	10	5/8/01	5/9/01	
m,p-Xylenes ppmv	EPA 8260B MOD11E0822		9.2	61	10	5/8/01	5/9/01	
Methyl-tert-butyl Ether (MTBE) ppm	EPA 8260B MOD11E0822		28	400	10	5/8/01	5/9/01	
Surrogate: Dibromofluoromethane ppmv (80-120%)								96.4 %
Surrogate: Toluene-d8 ppmv (80-120%)								99.2 %
Surrogate: 4-Bromofluorobenzene ppmv (80-120%)								94.2 %
Sample ID: IKE0236-02 (VE-1-MID - Air)								
Benzene ppmv	EPA 8260B MOD11E0822		13	27	10	5/8/01	5/9/01	
Ethylbenzene ppmv	EPA 8260B MOD11E0822		9.2	23	10	5/8/01	5/9/01	
Toluene ppmv	EPA 8260B MOD11E0822		11	120	10	5/8/01	5/9/01	
o-Xylene ppmv	EPA 8260B MOD11E0822		9.2	39	10	5/8/01	5/9/01	
m,p-Xylenes ppmv	EPA 8260B MOD11E0822		9.2	100	10	5/8/01	5/9/01	
Methyl-tert-butyl Ether (MTBE) ppm	EPA 8260B MOD11E0822		28	410	10	5/8/01	5/9/01	
Surrogate: Dibromofluoromethane ppmv (80-120%)								98.1 %
Surrogate: Toluene-d8 ppmv (80-120%)								100 %
Surrogate: 4-Bromofluorobenzene ppmv (80-120%)								94.9 %
Sample ID: IKE0236-03 (VE-1-END - Air)								
Benzene ppmv	EPA 8260B MOD11E0822		13	17	10	5/8/01	5/8/01	
Ethylbenzene ppmv	EPA 8260B MOD11E0822		9.2	ND	10	5/8/01	5/8/01	
Toluene ppmv	EPA 8260B MOD11E0822		11	57	10	5/8/01	5/8/01	
o-Xylene ppmv	EPA 8260B MOD11E0822		9.2	ND	10	5/8/01	5/8/01	
m,p-Xylenes ppmv	EPA 8260B MOD11E0822		9.2	24	10	5/8/01	5/8/01	
Methyl-tert-butyl Ether (MTBE) ppm	EPA 8260B MOD11E0822		28	270	10	5/8/01	5/8/01	
Surrogate: Dibromofluoromethane ppmv (80-120%)								99.4 %
Surrogate: Toluene-d8 ppmv (80-120%)								100 %
Surrogate: 4-Bromofluorobenzene ppmv (80-120%)								94.9 %

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

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Stratus Environmental, Inc.
 6481 Orangethorpe, Suite 8
 Buena Park, CA 90620
 Attention: Ron Bailey

Project ID: Westra Dairy Farm
 San Jacinto, CA
 Report Number: IKE0236

Sampled: 05/07/01
 Received: 05/08/01

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS in Air (EPA 8015B MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: I1E0830 Extracted: 05/08/01									
Blank Analyzed: 05/08/01 (I1E0830-BLK1)									
Volatile Fuel Hydrocarbons	ND	10	mg/m ³						QG
LCS Analyzed: 05/08/01 (I1E0830-BS2)									
Volatile Fuel Hydrocarbons	317	10	mg/m ³	286		111 70-130			QG

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

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Stratus Environmental, Inc. 6481 Orangethorpe, Suite 8 Buena Park, CA 90620 Attention: Ron Bailey	Project ID: Westra Dairy Farm San Jacinto, CA Report Number: IKE0236	Sampled: 05/07/01 Received: 05/08/01
--	--	---

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS in Air (EPA 8015B MOD.)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD Limit	Data Qualifiers
Batch: I1E0830 Extracted: 05/08/01									
Blank Analyzed: 05/08/01 (I1E0830-BLK1)									
Volatile Fuel Hydrocarbons	ppmv	ND	2.4	ppmv					QV

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

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Stratus Environmental, Inc. 6481 Orangethorpe, Suite 8 Buena Park, CA 90620 Attention: Ron Bailey	Project ID: Westra Dairy Farm San Jacinto, CA Report Number: IKE0236	Sampled: 05/07/01 Received: 05/08/01
--	--	---

METHOD BLANK/QC DATA

BTEX and MTBE in Air by GC/MS (EPA 5030B/8260B MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit RPD	RPD	Data Qualifiers
Batch: IIE0822 Extracted: 05/08/01									
Blank Analyzed: 05/08/01 (IIE0822-BLK1)									
Benzene	ND	4.0	mg/m ³						
Ethylbenzene	ND	4.0	mg/m ³						
Toluene	ND	4.0	mg/m ³						
o-Xylene	ND	4.0	mg/m ³						
m,p-Xylenes	ND	4.0	mg/m ³						
Methyl-tert-butyl Ether (MTBE)	ND	10	mg/m ³						
Surrogate: Dibromofluoromethane	49.1		mg/m ³	50.0		98.2	80-120		
Surrogate: Toluene-d8	51.6		mg/m ³	50.0		103	80-120		
Surrogate: 4-Bromofluorobenzene	49.6		mg/m ³	50.0		99.2	80-120		
LCS Analyzed: 05/08/01 (IIE0822-BS1)									
Benzene	51.5	4.0	mg/m ³	50.0		103	75-135		
Ethylbenzene	54.8	4.0	mg/m ³	50.0		110	75-135		
Toluene	53.0	4.0	mg/m ³	50.0		106	75-135		
o-Xylene	53.8	4.0	mg/m ³	50.0		108	75-135		
m,p-Xylenes	111	4.0	mg/m ³	100		111	75-135		
Methyl-tert-butyl Ether (MTBE)	48.2	10	mg/m ³	50.0		96.4	65-135		
Surrogate: Dibromofluoromethane	49.9		mg/m ³	50.0		99.8	80-120		
Surrogate: Toluene-d8	51.3		mg/m ³	50.0		103	80-120		
Surrogate: 4-Bromofluorobenzene	50.2		mg/m ³	50.0		100	80-120		

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

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Stratus Environmental, Inc.
 6481 Orangethorpe, Suite 8
 Buena Park, CA 90620
 Attention: Ron Bailey

Project ID: Westra Dairy Farm
 San Jacinto, CA
 Report Number: IKE0236

Sampled: 05/07/01
 Received: 05/08/01

METHOD BLANK/QC DATA

BTEX and MTBE in Air by GC/MS (EPA 5030B/8260B MOD.)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	Data Limit	Qualifiers
Batch: I1E0822 Extracted: 05/08/01									
Blank Analyzed: 05/08/01 (I1E0822-BLK1)									
Benzene ppmv	ND	1.3	ppmv						
Ethylbenzene ppmv	ND	0.92	ppmv						
Toluene ppmv	ND	1.1	ppmv						
o-Xylene ppmv	ND	0.92	ppmv						
m,p-Xylenes ppmv	ND	0.92	ppmv						
Methyl-tert-butyl Ether (MTBE) ppmv	ND	2.8	ppmv						
Surrogate: Dibromofluoromethane ppmv	6.32		ppmv	6.43		98.3 80-120			
Surrogate: Toluene-d8 ppmv	12.6		ppmv	12.2		103 80-120			
Surrogate: 4-Bromofluorobenzene ppmv	6.97		ppmv	7.03		99.1 80-120			

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

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Stratus Environmental, Inc.
6481 Orangethorpe, Suite 8
Buena Park, CA 90620
Attention: Ron Bailey

Project ID: Westra Dairy Farm
San Jacinto, CA
Report Number: IKE0236

Sampled: 05/07/01
Received: 05/08/01

DATA QUALIFIERS AND DEFINITIONS

- QG** Carbon range C6-C12 quantitated against a gasoline standard.
- QV** The molecular weight of 100 was used to convert Volatile Fuel Hydrocarbons from mg/m³ to ppm by volume (ppmv).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- NR** Not reported.
- RPD** Relative Percent Difference

Del Mar Analytical, Irvine
Pat Abe
Project Manager

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California Regional Water Quality Control Board Santa Ana Region



Gray Davis
Governor

Winston H. Hickox
Secretary for
Environmental
Protection

Internet Address: <http://www.swrcb.ca.gov/rwqcb8>
3737 Main Street, Suite 500, Riverside, California 92501-3348
Phone (909) 782-4130 - FAX (909) 781-6288

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.swrcb.ca.gov/rwqcb8.

December 26, 2001

Mr. Cal Westra
Westra Family Trust
870 North Sanderson Avenue
San Jacinto, California 92582

**SUBJECT: NO FURTHER ACTION
WESTRA DAIRY FARM TANKS
870 NORTH SANDERSON AVENUE
SAN JACINTO, CALIFORNIA 92582
UST CASE NO. 083303601T**

Dear Mr. Westra:

This letter confirms the completion of the site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Enclosed is the Case Summary for the referenced site for your records.

Based upon the available information, including current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action that is related to the underground storage tank removal is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e).

Please provide documentation of well abandonment to this office to complete our file. Please contact Rose Scott of our office at (909) 320-6375, if you have any questions regarding this matter.

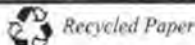
Sincerely,

for Gerard J. Thibeault
Executive Officer

Enclosure: Case Closure Summary

cc: Sharon Boltinghouse, County of Riverside
Ronald Bailey, Stratus Environmental, Inc.
Ed McGlothlin, Consolidated Waste Industries

California Environmental Protection Agency



CASE SUMMARY**I. AGENCY INFORMATION**

Agency Name: California Regional Water Quality Control Board, Santa Ana Region	Address: 3737 Main Street, Suite 500
city/state/zip: Riverside, CA 92501-3348	Phone: (909) 320-6375 or (909)-782-4130
Staff: Rose T. Scott	Title: Associate Engineering Geologist

II. CASE INFORMATION

Site Name:	Westra Dairy Farm			
Location:	870 N. Sanderson Ave., San Jacinto, California 92582			
RB Case #	083303601T			
Responsible Parties		Address		Phone Number
Cal Westra Westra Family Trust		870 N. Sanderson Ave. San Jacinto, California 92582		(909) 239-0247
Tank No.	Size In Gallons	Contents	Closed in-place Removed?	Date
1	1,000 gallons	Gasoline	Removed	December 14, 1999
2	1,000 gallons	Gasoline	Removed	December 14, 1999
3	10,000 gallons	Gasoline	Removed	December 14, 1999

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause & type of release: underground tanks			
Site characterization complete: YES <input checked="" type="checkbox"/> NO		Closure report dated: February 21, 2000	
Monitoring Wells installed: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		Proper screened interval: YES <input type="checkbox"/> NO <input type="checkbox"/> NA <input checked="" type="checkbox"/>	
Highest groundwater depth below surface: 120 feet estimated		Lowest depth: 120 feet estimated	
Flow Direction: esimated to the east		Most sensitive current groundwater use:	
Groundwater Sub-Basin: San Jacinto -Intake and Upper Pressure		Reports(s) filed: California Regional Water Quality Control Board	
Report(s) on file? Yes		3737 Main Street, Suit 500, Riverside, CA 92501-3348	

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

MATERIAL	AMOUNT	ACTION TREATMENT OR DISPOSAL W/DESTINATION	Date
Soil	120 tons	Excavation and Offsite Disposal	December 1999

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS – BEFORE & AFTER CLEANUP				
CONTAMINANT	SOIL (mg/kg)		WATER (µg/l)	
	Before	After	Before	After
Total Petroleum Hydrocarbons – Gasoline (8015)	NA	5,290	NA	NA
Benzene	NA	36.8	NA	NA
MTBE	NA	377	NA	NA
Toluene	NA	638	NA	NA
Ethylbenzene	NA	200	NA	NA
Xylenes	NA	352	NA	NA

NA - Not applicable

IV. CLOSURE

Does completed corrective action protect beneficial uses per the regional board basin plan?
 YES [x] NO []

Does the corrective action protect public health for current land use? YES [x] NO []

SITE MANAGEMENT REQUIREMENTS

Should corrective action be reviewed if land use changes?
 YES [x] NO []

Monitoring or vapor wells decommissioned: YES [] NO [x] N/A []
 Number decommissioned: none

List of enforcement actions taken: none
 List enforcement action rescinded: none

VII. ADDITIONAL COMMENTS, DATA, ETC.

On December 14, 1999, three gasoline underground storage tanks (USTs) were removed from the site under the direction of Riverside County. The tank area was over-excavated by Consolidated Waste Industries, and the contaminated soil (approximately 120 tons) was transported to TPS recycling in Adelanto, California. The highest concentrations of petroleum hydrocarbons detected beneath the gasoline tanks are shown on the preceding table. These are the concentrations left in place at the bottom of the excavation. On March 15, 2000, the County of Riverside Health Services Agency Department of Environmental Health transferred this case to our office for Regional Board oversight for jurisdictional reasons.

In October 2000, three borings were drilled at the site to depths of 60 to 70 feet below ground surface (bgs). Groundwater was not detected to a depth of 70 feet below ground surface. The expected depth to groundwater is reported to be 120 feet or greater. The site is underlain by sandy silt, silty sand and gravelly sand. The highest concentrations of petroleum hydrocarbons were detected in the 15-foot sample from Boring S-1. In addition to the contaminants identified in the table above, the following compounds were

detected: Naphthalene at 32.3 mg/kg, N-propylbenzene at 34.6 mg/kg, 1,2,4-trimethylbenzene at 248.0 mg/kg, 1,3,5-trimethylbenzene at 82.8 mg/kg, and 2-Methylnaphthalene at 33.6 mg/kg. The concentrations significantly decreased with depth indicating that the extent of petroleum hydrocarbons was limited to between 15 and 20 feet bgs. In the soil samples collected at 25, 35 and 60 feet bgs, TPH, MTBE, toluene, ethylbenzene and xylenes were detected at low concentrations (less than 0.5 mg/kg). Petroleum hydrocarbons were not detected in boring S-2 and were only detected at low concentrations (0.147 mg/kg TPH, 0.009 mg/kg benzene, 0.031 mg/kg toluene, 0.012 mg/kg xylenes and 0.186 mg/kg MTBE) in the 15 and 20-foot samples from boring S-3, indicating that the lateral extent of petroleum hydrocarbons in soil was also limited.

In December 2000, Regional Board staff recommended an extended vapor extraction test in order to evaluate the mass of petroleum hydrocarbons in the soil available for vapor recovery. On May 7, 2001, one vapor extraction well was installed in the area of the highest concentrations of petroleum hydrocarbons in soil and a 7-hour vapor extraction test was conducted. Vapor samples were collected at the beginning, middle and end of the test. The highest concentrations were detected at the mid-point of the test. The influent concentrations of TPH and MTBE decreased from the beginning to the end of the test from 3,000 and 400 ppmv to 2,300 and 270 ppmv, respectively. Concentrations of benzene increased from 0.14 ppmv at the beginning of the test to 27 ppmv at the middle and 0.17 ppmv at the end. MTBE also increased slightly during the mid-test sampling. At a flow rate of 30 scfm, only 9.55 pounds of hydrocarbons were removed during the test. The results of the test indicated that there is not a significant source of petroleum hydrocarbons remaining in the soil that would pose a threat to groundwater resources.

No further action is recommended for the following reasons:

- The areas primarily affected by the release were remediated by excavation and off-site disposal of approximately 120 tons of soil containing petroleum hydrocarbons.
- Assessment results indicated the residual petroleum hydrocarbons in soil are limited to an area estimated to have a 15-foot radius between 15 and 20 feet bgs, southeast of the maintenance building.
- Concentrations in extracted vapors during the vapor extraction test did not indicate a significantly rich source of petroleum hydrocarbons in soil.
- Groundwater is expected to be at a depth of 120 feet, at least 60 feet below the deepest detected compound (MTBE at a concentration of 0.089 mg/kg of MtBE, using EPA Method 8021) and 100 feet beneath the deepest detected benzene (0.006 mg/kg).

VIII. RWQCB AGENCY RESPONSE

Regional Board Staff:

Name: Rose T. Scott	Title: Associate Engineering Geologist
Signature: <i>Rose T. Scott</i>	Date: 12/26/01

Name: Kenneth R. Williams - Senior Engineering Geologist	Response: Concurs with Closure
Signature: <i>Kenneth R. Williams</i>	Date: 12/26/01

Westra Family Trust

PO Box 1038
Mira Loma, CA 91752-1038

SANTA ANA REGION	
REC'D	DATE
	APR 17 2002
Som	
Eck	

April 15, 2002

California Regional Water Quality Control Board
3737 Main Street, Suite 500
Riverside, CA 92501-3348

Subject: Well Abandonment

Westra Dairy Farms Tanks

870 N. Sanderson Avenue
San Jacinto, CA 92582
UST Case No. 083303601T

Dear Mr. Gerard J Thibeault:

In response to your letter dated December 26, 2001 the study well at the above location has been properly sealed and abandoned. Please use this letter as our confirmation of the completion of the site investigation and remedial action.

No further action is necessary.

We thank you as a family for all your work in the above mentioned case.

Sincerely,



Cal Westra
Partner

A: RTS/KRW



California Regional Water Quality Control Board Santa Ana Region



Winston H. Hlekkox
Secretary for
Environmental
Protection

Internet Address: <http://www.swrcb.ca.gov/rwqcb8>
3737 Main Street, Suite 500, Riverside, California 92501-3348
Phone (909) 782-4130 - FAX (909) 781-6288

Gray Davis
Governor

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.swrcb.ca.gov/rwqcb8.

December 26, 2001

Mr. Cal Westra
Westra Family Trust
870 North Sanderson Avenue
San Jacinto, California 92582

**SUBJECT: NO FURTHER ACTION
WESTRA DAIRY FARM TANKS
870 NORTH SANDERSON AVENUE
SAN JACINTO, CALIFORNIA 92582
UST CASE NO. 083303601T**

Dear Mr. Westra:

This letter confirms the completion of the site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Enclosed is the Case Summary for the referenced site for your records.

Based upon the available information, including current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action that is related to the underground storage tank removal is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e).

Please provide documentation of well abandonment to this office to complete our file. Please contact Rose Scott of our office at (909) 320-6375, if you have any questions regarding this matter.

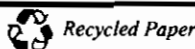
Sincerely,

for Gerard J. Thibeault
Executive Officer

Enclosure: Case Closure Summary

cc: Sharon Boltinghouse, County of Riverside
Ronald Bailey, Stratus Environmental, Inc.
Ed McGlothlin, Consolidated Waste Industries

California Environmental Protection Agency



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city/state/zip: Riverside, CA 92501-3348	Phone: (909) 320-6375 or (909)-782-4130
Staff: Rose T. Scott	Title: Associate Engineering Geologist

II. CASE INFORMATION

Site Name:	Westra Dairy Farm			
Location:	870 N. Sanderson Ave., San Jacinto, California 92582			
RB Case #	083303601T			
Responsible Parties		Address		Phone Number
Cal Westra Westra Family Trust		870 N. Sanderson Ave. San Jacinto, California 92582		(909) 239-0247
Tank No.	Size In Gallons	Contents	Closed in-place Removed?	Date
1	1,000 gallons	Gasoline	Removed	December 14, 1999
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III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause & type of release: underground tanks	
Site characterization complete: YES [<input checked="" type="checkbox"/>] NO	Closure report dated: February 21, 2000
Monitoring Wells installed: YES [<input type="checkbox"/>] NO [<input checked="" type="checkbox"/>]	Proper screened interval: YES [<input type="checkbox"/>] NO [<input type="checkbox"/>] NA [<input checked="" type="checkbox"/>]
Highest groundwater depth below surface: 120 feet estimated	Lowest depth: 120 feet estimated
Flow Direction: esimated to the east	Most sensitive current groundwater use:
Groundwater Sub-Basin: San Jacinto -Intake and Upper Pressure	Reports(s) filed: California Regional Water Quality Control Board
Report(s) on file? Yes	3737 Main Street, Suit 500, Riverside, CA 92501-3348

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

MATERIAL	AMOUNT	ACTION TREATMENT OR DISPOSAL W/DESTINATION	Date
Soil	120 tons	Excavation and Offsite Disposal	December 1999

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS – BEFORE & AFTER CLEANUP				
CONTAMINANT	SOIL (mg/kg)		WATER (µg/l)	
	Before	After	Before	After
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MTBE	NA	377	NA	NA
Toluene	NA	638	NA	NA
Ethylbenzene	NA	200	NA	NA
Xylenes	NA	352	NA	NA

NA - Not applicable

IV. CLOSURE

Does completed corrective action protect beneficial uses per the regional board basin plan?
 YES NO

Does the corrective action protect public health for current land use? YES NO

SITE MANAGEMENT REQUIREMENTS

Should corrective action be reviewed if land use changes?
 YES NO

Monitoring or vapor wells decommissioned: YES NO N/A
 Number decommissioned: none

List of enforcement actions taken: none
 List enforcement action rescinded: none

VII. ADDITIONAL COMMENTS, DATA, ETC.

On December 14, 1999, three gasoline underground storage tanks (USTs) were removed from the site under the direction of Riverside County. The tank area was over-excavated by Consolidated Waste Industries, and the contaminated soil (approximately 120 tons) was transported to TPS recycling in Adelanto, California. The highest concentrations of petroleum hydrocarbons detected beneath the gasoline tanks are shown on the preceding table. These are the concentrations left in place at the bottom of the excavation. On March 15, 2000, the County of Riverside Health Services Agency Department of Environmental Health transferred this case to our office for Regional Board oversight for jurisdictional reasons.

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No further action is recommended for the following reasons:

- The areas primarily affected by the release were remediated by excavation and off-site disposal of approximately 120 tons of soil containing petroleum hydrocarbons.
- Assessment results indicated the residual petroleum hydrocarbons in soil are limited to an area estimated to have a 15-foot radius between 15 and 20 feet bgs, southeast of the maintenance building.
- Concentrations in extracted vapors during the vapor extraction test did not indicate a significantly rich source of petroleum hydrocarbons in soil.
- Groundwater is expected to be at a depth of 120 feet, at least 60 feet below the deepest detected compound (MTBE at a concentration of 0.089 mg/kg of MtBE, using EPA Method 8021) and 100 feet beneath the deepest detected benzene (0.006 mg/kg).

VIII. RWQCB AGENCY RESPONSE

Regional Board Staff:

Name: Rose T. Scott	Title: Associate Engineering Geologist
Signature: <i>Original Signed by R. Scott</i>	Date:

Name: Kenneth R. Williams - Senior Engineering Geologist	Response: Concurs with Closure
Signature: Original Signed by K. Williams	Date:



870 SANDERSON
 SAN JACINTO, CA 92582
 RIVERSIDE COUNTY
 LUST CLEANUP SITE ([INFO](#))
COMPLETED - CASE CLOSED AS OF 12/26/2001 - [DEFINITION](#)
[PRINTABLE CASE SUMMARY / CSM REPORT](#)

CLEANUP OVERSIGHT AGENCIES
 SANTA ANA RWQCB (REGION 8) ([LEAD](#)) - CASE #: 0
CASEWORKER: [ROSE SCOTT](#)
 RIVERSIDE COUNTY LOP
CASEWORKER: [Riverside County LOP](#)

[Summary](#) [Cleanup Action Report](#) [Regulatory Activities](#) [Environmental Data \(ES\)](#) [Site Maps / Documents](#) [Community Involvement](#) [Related Cases](#)

Regulatory Profile

[PRINTABLE CASE SUMMARY](#)

CLEANUP STATUS - DEFINITIONS

COMPLETED - CASE CLOSED AS OF 12/26/2001 - [CLEANUP STATUS HISTORY](#)

POTENTIAL CONTAMINANTS OF CONCERN

GASOLINE

FILE LOCATION

DWR GROUNDWATER SUB-BASIN NAME

San Jacinto (8-005)

POTENTIAL MEDIA OF CONCERN

SOIL

DESIGNATED GROUNDWATER BENEFICIAL USE(S) - DEFINITIONS

MUN, AGR, IND, PROC - Note: Also incl parts of 802.15.

CALWATER WATERSHED NAME

San Jacinto Valley - San Jacinto - Gilman Hot Springs (802.21)

Site History

No site history available

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D r a f t



Recirculated Draft Environmental Impact Report No. 2

Villages of San Jacinto

State Clearinghouse No. 2004122132



AUGUST 2009

PREPARED FOR:
City of San Jacinto
248 E. Main Street
San Jacinto, CA 92583

PREPARED BY:
Dudek
605 Third Street
Encinitas, CA 92024



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APPENDICES

Note: Only technical appendices that changed as a result of the preparation of Recirculated Draft EIR Number 2 are being distributed during public review of this Recirculated Draft EIR. Appendices that are being distributed during this public review period are noted in **BOLD** text. A complete set of appendices is available for review at the City of San Jacinto Planning Department.

- A NOP, Initial Study
- B LESA Model
- C Biological Resources Technical Report (Dudek, August 2005)
RCA Confirmation Letter (Western Riverside County Regional Conservation Authority, November 17, 2008)

APPENDICES (Continued)

- D Cultural Resources Technical Report (ASM Affiliates, Inc., December 2004)
- E Fault Investigation (Leighton & Associates, Inc., March 31, 2004)
Additional Geotechnical Studies (Leighton & Associates, Inc., August 31, 2005,
June 30, 2006, October 31, 2006)
- F Geotechnical Investigation (Leighton & Associates, Inc., February 28, 2005)
- G Water, Wastewater and Irrigation Study
Preliminary Drainage Study (RBF Consulting, May 2006)
Preliminary Drainage Study Phase 1 and 2 (RBF Consulting, August 2006)
Summary Drainage Study for Phases 1-1C (RBF Consulting, December 12, 2006)
**Preliminary Hydrology and Hydraulics Study (JLC Engineering & Consulting, Inc.,
February 2009)**
**Preliminary Water Quality Management Plan (JLC Engineering & Consulting, Inc.,
February 2009)**
Lake Preliminary Design Report (Pacific-Aquascape, Inc.)
- H Traffic Impact Analysis (Urban Crossroads, September 2005)
Alternate Tenaya Traffic Analysis due to the High School Alternative Land Use (Urban
Crossroads, January 5, 2006) Tenaya Trip Generation Comparison (Urban Crossroads,
March 9, 2006)
Traffic Impact Analysis (Urban Crossroads, April 24, 2009)
- I Air Quality Analysis Models (Dudek, November 2006)
2003–2005 South Coast Air Quality Management District Air Quality Data
**URBEMIS 2007 Construction and Operational Emissions, Greenhouse Gas
Emissions Models (Dudek, July 2009)**
Localized Significance Thresholds Analysis Report (Dudek, July 2009)
- J Noise Analysis Models (Dudek, October 2006)
Revised Noise Analysis Models (Dudek, April 2009)
- K Water Supply Assessment (Eastern Municipal Water District, December 15, 2004)
**Water Supply Assessment Update Letter (Eastern Municipal Water District,
May 11, 2009)**
- L Phase I Environmental Site Assessment (Gradient Engineers, October 10, 2002)
- M **Mitigation Monitoring and Reporting Program**

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SECTION 1.0 EXECUTIVE SUMMARY

PROJECT SETTING

The Villages of San Jacinto project site is approximately 475.1 acres in size and is located in the City of San Jacinto in northwestern Riverside County, California (see *Figure 1-1, Regional Map*). The project site is located in the northwestern portion of the City (see *Figure 1-2, Vicinity Map*). The project is located along Sanderson Avenue which is one of the City's main north-south transportation routes (see *Figure 1-3, Site Location Map*). The project site is bordered by undeveloped agricultural land to the north (and future westward extension of Ramona Boulevard), Sanderson Avenue to the east, Odel Avenue to the west, and undeveloped agricultural land and a municipal wastewater treatment plant to the south. The project site has been used as pasture land and/or a farming operation, similar to surrounding properties, for over one hundred years. The San Jacinto Valley has traditionally supported agriculture and rural residential land uses, but has been experiencing increased urbanization in the past several years.

The site is generally flat and is located on the alluvial plain of the San Jacinto River. The site elevation above sea level ranges from 1,455 feet along the northern edge to 1,490 feet in the southeastern corner. The southeastern corner of the site is a former cattle feed lot with several remaining animal shade structures. The remainder of the land consists primarily of vacant former agricultural land. Vegetation on site consists of weedy invasive species that have accumulated since the majority of agricultural production was discontinued. There are scattered sod fields in the northern portions of the property which is the only remaining agricultural operation. Several unnamed, unimproved dirt roadways traverse the site and are associated with former and current agricultural operations. Irrigation canals run along the edges of fields in support of sod farming activities. A detention basin is located along the north-central edge of the project site.

PROJECT DESCRIPTION

The project would consist of development of mostly vacant former agricultural lands into a suburban development including residential, commercial, mixed-use, public facility and open space/recreational uses. The 475.1-acre site would be divided into 18 "Planning Areas" (PA). Each planning area would consist of a specific land use type with some having subareas of the particular land use. The following presents a summary of the proposed development while a detailed description is contained in Chapter 3 of this document.

Residential

Residential land uses would consist of 80.6 acres of low density and detached residential with 6,000-square-foot minimum lots and 117.9 acres of medium density residential having lot sizes

of 4,000 square feet and 5,000 square feet. The medium density residential development will have densities between 5.1 to 6.2 units per acre and a total of 657 dwelling units. Medium density residential is intermixed throughout the site and includes Planning Areas 1, 2, 4, 7, 8, 9, and 10. Low density uses would consist of single family residential lots with a density of approximately 4.5 dwelling units per acre, and a total of 359 dwelling units. The low-density development would be located in Planning Areas 3, 5, 6, 13, and 19. A total of 1,016 dwelling units are proposed with an allowance of up to 1,329 units if the proposed school site is not developed as discussed below.

Commercial

Commercial development would be focused in the southeast corner of the project site within PA 11. This development is intended to result in approximately 247,000 square feet of neighborhood retail commercial uses on 22.7 acres. This designation is intended to meet the provision for retail commercial land uses as set forth in the San Jacinto General Plan Land Use Element and to provide an accessible local shopping center for the proposed project and nearby communities. This would allow for a wide range of businesses including grocery store, drug store, cleaners, restaurants, fast food, and specialty stores. The Specific Plan for the project includes Conceptual Design Guidelines and Development Standards for commercial development of this Planning Area. Comprehensive Design Guidelines will need to be reviewed and approved by the City prior to development of the Planning Area.

Mixed-Use

Mixed-use development will be provided within the 26.3-acre Planning Area 12. This designation is intended to provide for a broad range of land uses, with the primary focus on municipal uses such as library, police and fire facilities and other development such as business and professional park uses including dental and medical offices, real estate offices, banks, etc. This area could also provide accessory uses to the primary facilities such as coffee shop, printers, postal/shipping outlets etc. This designation provides for a maximum of 343,000 square feet of building area and will have a maximum height limit of 45 feet. Conceptual Design Guidelines for commercial uses are provided in the project Specific Plan, but Comprehensive Design Guidelines will need to be reviewed and approved by the City prior to development of the Planning Area.

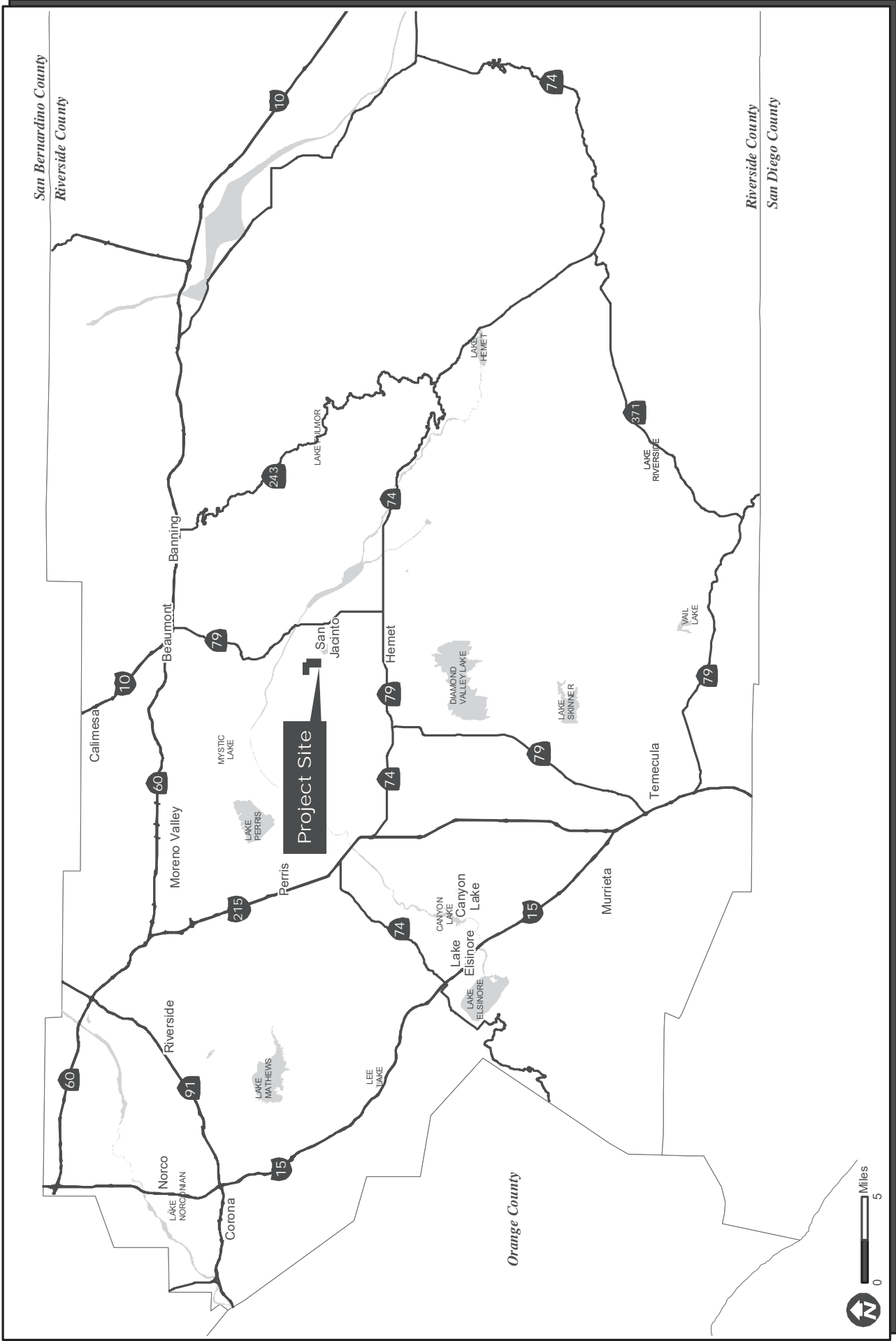
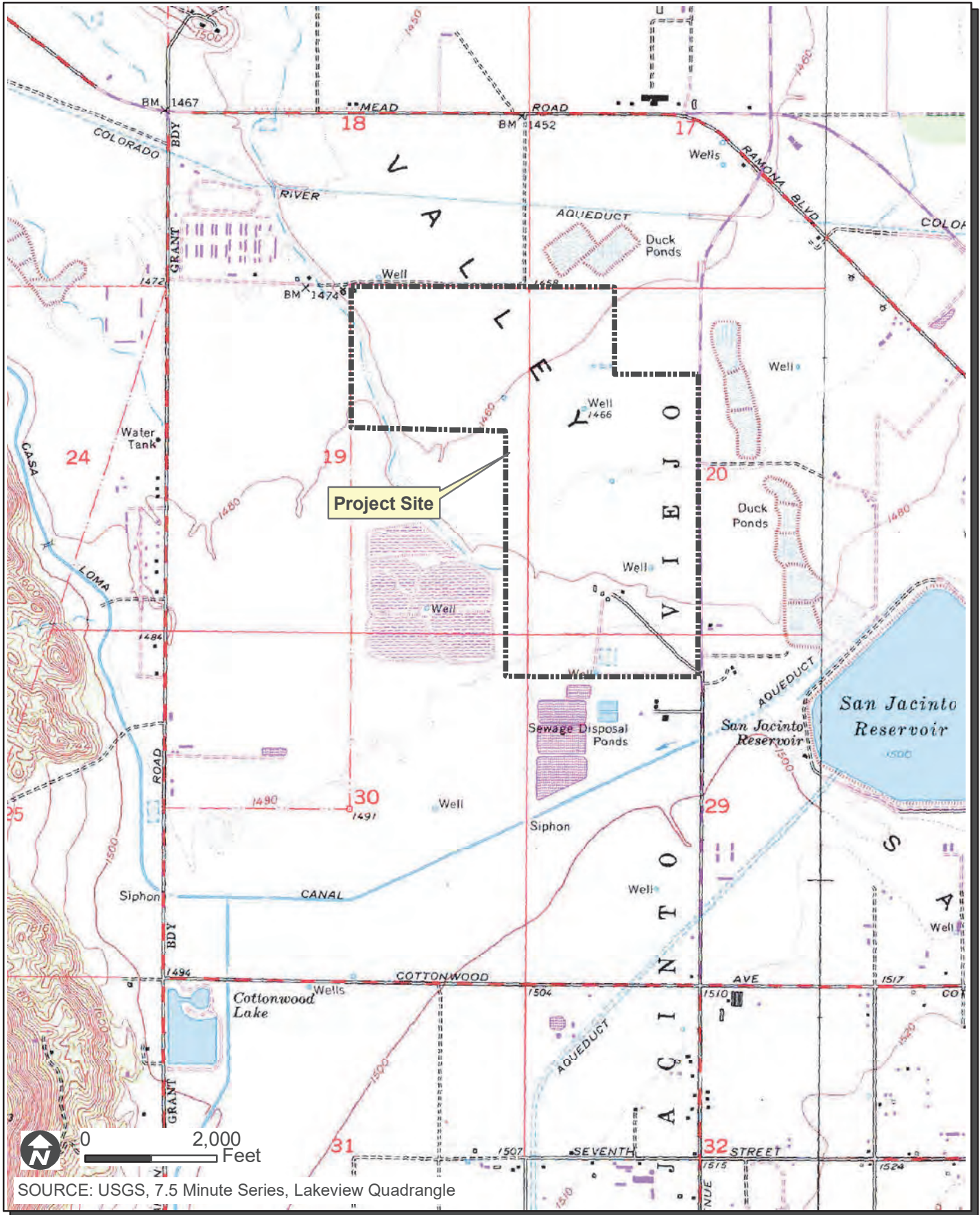


FIGURE 1-1

**Villages of San Jacinto EIR
Regional Map**

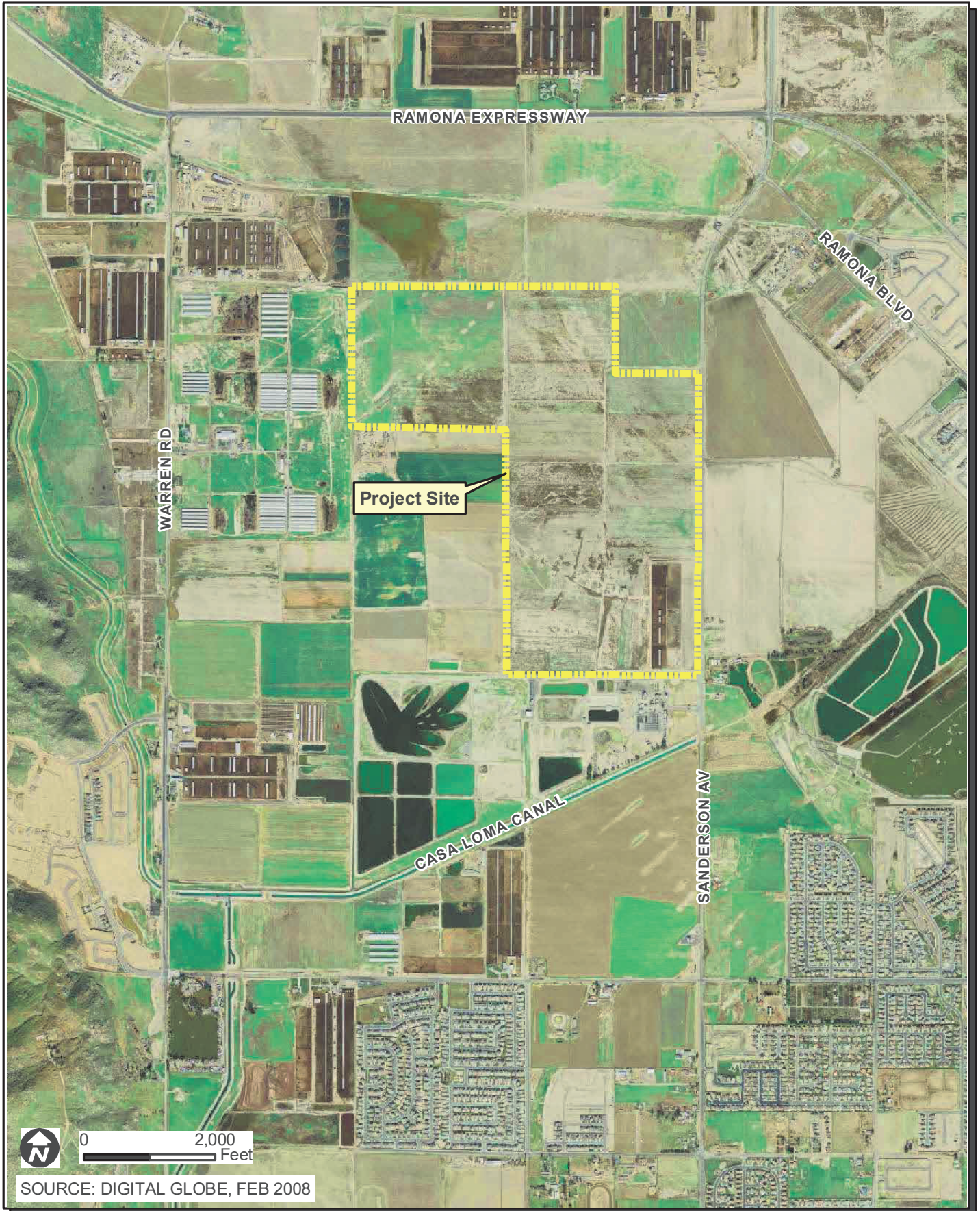
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Villages of San Jacinto EIR
Vicinity Map

FIGURE
1-2

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Villages of San Jacinto EIR
Site Location Map

FIGURE
1-3

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School

As noted in *Table 3-2*, Planning Area 14 is designated for a proposed high school by San Jacinto Unified School District (District). The 69.1 acre high school site would be located southwest of the future intersection of Cawston Avenue and Ramona Boulevard. Preliminary plans for the school include baseball and softball fields, a track/football stadium, gymnasium, performing arts facility and classroom space for up to 2,000 students. Final plans for the school would be processed separately from the Villages of San Jacinto Specific Plan through the District Board of Trustees and the California Division of the State Architect. If the District does not choose to construct a high school on this site, it will instead be used for residential uses. Under this scenario, Planning Area 14 would be developed with 200 low-density residences (minimum 6,000-square-foot lots) and 113 medium-density residences (5,000-square-foot lots). Because final planning for the school would be undertaken by the District, as its own lead agency under CEQA, this EIR's impact analysis of the school is limited to a programmatic level.

Parks and Recreational Amenities

Following is a summary of the recreational amenities and park facilities planned for the proposed project. Further discussion of parks and recreation, including the requirement for provision of adequate parkland is contained in Section 5.12.4.

Public Parks

The proposed project includes three public parks totaling approximately 41 acres. The largest of the public parks is the 33.4-acre Community Park in Planning Area 15C north of Bridge Street in the southern portion of the proposed development. This park will provide soccer and baseball fields, concession area, as well as barbeque and picnic areas overlooking the proposed lake. Public parks in Planning Areas 15B and 15D provide just over seven acres of various active and passive recreational opportunities.

Private Parks

The two private parks in Planning Areas 15A and 15E will provide passive recreation for nearby residents such as tot lots, shade structures, pathways and picnic areas.

Lake House and Swim Lagoon

Other recreational amenities include a 5.1-acre Lake House Beach Club and Swim Lagoon within Planning Area 16. This will be a private facility for residents and will feature a Swim Lagoon with sandy beach, play island, lap pool, play pool, fire pits, open turf area and shade

structures. The clubhouse will provide an exercise room, activity room, restroom/changing rooms and office space.

Lake

The 11-acre private lake will be located primarily between Planning Areas 7 and 8 and adjacent to the Swim Lagoon. It will feature a concrete trail surrounding the lake and connecting to the community park in PA 15C. No swimming or boating will be allowed on the lake, but it will provide recycled water for irrigation of common landscaping within the community.

Paseos

A total of 9.6 acres of landscaped paseos will serve as pedestrian linkages between land uses and will create landscaped buffer areas between Planning Areas. These paseos will be a minimum of 50 feet wide and have 10-foot-wide concrete trails.

Open Space

In addition to the above parks and recreational amenities, approximately 15.2 acres of open grass-lined drainage channels/basins would be constructed along the western perimeter of the project site. A vegetated open detention basin will be located in the northwest corner of the project site. A total of 2.4 acres of landscape easements are provided in various locations throughout the project site. The proposed system of open spaces would provide both on-site and off-site visual benefits to compensate for the loss of existing open space character of the site.

Access

Roadway right-of-way would be located throughout the development and would provide access to and from as well as within the project. Sanderson Avenue and Odell Avenue would serve as primary access points for the project. Ramona Boulevard will be constructed to provide access along the north edge of the project site. Cawston Avenue would serve as the major north-south arterial through the project while De Anza Drive would serve as the major east-west arterial within the development taking access from Sanderson Avenue and connecting to Cawston Avenue. Modifications to Sanderson Avenue, Odell Avenue and Cawston Avenue would be required with project development. Improvements may include traffic light installation and additional turn lanes into the development from perimeter streets, where necessary. Secondary access to Planning Area 19 would be provided by the planned extension of Odell Avenue north to Ramona Expressway. The northern extent of Cawston Avenue would be terminated at the location of the proposed future alignment of Ramona Boulevard until this roadway is complete, at which time the dead ended Cawston Avenue would be retrofitted to form a functional intersection with Ramona Boulevard.

Improvements to SR 79 within western Riverside County is currently being planned by Riverside County Transportation Commission (RCTC)/Caltrans within the general vicinity of the project. Due to the conceptual nature of the ultimate alignment of the future SR 79 corridor, an on/off ramp into or near the proposed development is not contemplated as a project feature. Should roadway improvements be necessary to accommodate an ultimate SR 79 alignment, modifications to the project and preparation of a supplemental environmental document may be necessary. As of April 2004, the City has adopted a locally-preferred alignment for SR 79 which directs the roadway to the east of the proposed project. The Draft EIR/EIS for this project is expected to be circulated for public review in late 2009 with construction to begin in 2011. In late 2006, the City also selected a locally-preferred alignment for Mid-County Parkway, a future regional east-west roadway approximately 1,000 feet north of the project site which is a joint Caltrans/RCTC and Federal Highway Administration (FHWA) project. The 32- mile route will connect the San Jacinto area with the Corona area. Final environmental approvals are expected to be obtained by late 2010 to 2011 with construction set to begin sometime in 2013 (www.midcountyparkway.org).

Sewer and Water Service

The project would involve installation of an on-site sewer and water distribution system. Water and sewer service would be provided by Eastern Municipal Water District and be extended into the project via new conveyance facilities consistent with the District's approved master plan expansion program. The project, along with other future development planning in the western portion of the City of San Jacinto, would contribute to the need for expansion of the Eastern Municipal Water District's Hemet/San Jacinto Regional Water Reclamation Facility located to the south. The expansion of this facility is being analyzed by Eastern Municipal Water District (CEQA Lead Agency) in a separate environmental document.

Recycled Water Service. The project would utilize reclaimed water from the adjacent Eastern Municipal Water District Hemet/San Jacinto Regional Water Reclamation Facility. Recycled water would be utilized for lake/water features as well as common area irrigation needs throughout the proposed community. Recycled water would not be used for private landscaping such as front or back yards.

Storm Drain System

The project incorporates a drainage plan that will not impact upstream and downstream property owners but will provide flood protection for the overall project site. The Drainage Plan will incorporate a vegetative channel and a detention/water quality basin, which are designated as Line V and Detention Basin V. These two facilities are the major backbone infrastructure that will collect the runoff that emanates from off-site and on-site areas. Line V and Detention Basin

V have been designed to convey and control the interim flow rate and ultimate flow rate. The interim flow rate results in a runoff rate that exceeds the ultimate condition flow rate. The interim condition will require the construction of two interim culvert facilities and the reconstruction of an earthen roadway to eliminate ponding east of DeAnza Drive and Sanderson Avenue intersection. These interim drainage facilities are required to control and convey the interim flow rates originating from the off-site area. Several storm drain laterals will provide flood protection for the on-site Planning Areas. Further details of the Drainage Plan are contained in *Section 5.8, Water Quality and Hydrology*.

Tentative Map

A draft tentative map (TM 36188) has also been prepared for the project. *Figure 3-5, Tentative Tract Map*, shows individual residential lots, mixed use and commercial areas and accessory uses including open space, lakes and roadways. In summary, the Tentative Tract Map, which further defines the Specific Plan Land Use Plan (described above), would allow the following housing units and other land uses to be developed on the project site:

Unit Type Summary

- 6,000-square-foot lots – 359 units
- 5,000-square-foot lots – 349 units
- 4,000-square-foot lots – 308 units
- TOTAL 1,016 units

- 69.1-acre high school site
- 22.7 acres of commercial uses
- 26.3 acres of mixed-use
- 5.1-acre lake house and Swim Lagoon
- 43.0 acres for parks
- 11.0 acres for lake surfaces
- 24.2 acres for water quality/detention basin facilities
- 15.2 acres for drainage channels
- 9.6 acres for paseos
- 48.0 acres for roadways

Alternatives Summary

The following is a summary of the three (3) alternatives carried forward for analysis in this EIR. The complete alternatives analysis is contained in Section 10.0 of this document. In addition to the CEQA-mandated consideration of a No Project scenario, two (2) alternatives were selected based on their ability to fulfill the basic objectives of the proposed project, as well as their capability to reduce any potentially significant adverse impacts of the project. A comparison summary of the alternatives is provided below, and impacts have been quantified wherever possible.

- Alternative 1: No Project/No Development Alternative
- Alternative 2: Existing General Plan Designation Alternative
- Alternative 3: Reduced Density Alternative

No Project/No Development Alternative assumes that the project site would not be developed and the former agricultural operations (sod farm and cattle feeding area) would continue.

Existing General Plan Designation Alternative The existing General Plan designations establish 136.5 acres of low density residential and 239.5 acres of medium density residential. This would allow for a maximum of 2,390 medium density dwellings (10 du/ac maximum) and up to 682 low density dwellings (5 du/ac maximum) for a total of 3,072 dwelling units under the existing General Plan.

Reduced Density Alternative would involve the development of a low density housing tract with approximately 1-acre lots. Due to drainage and infrastructure needs, this alternative would consist of approximately 350 single-family homes (on approximately 350 acres), 41 acres of parks, 27 acres of greenbelts, 14 acres of drainage basin, 18 acres of lake surfaces, 18 acres of roadways and a 3-acre clubhouse. Due to the existing nature of the site topography, this project alternative would be prepared, graded and designed in a similar fashion as the proposed project.

Table 1-1, Alternatives Summary, provides a summary of alternatives as they compare to the proposed project. Each alternative was analyzed for its potential impact on environmental issues that were determined to be either significant and mitigable or significant and unmitigable in the proposed project condition. Issues such as land use and planning were not found to be significant, therefore analysis was not provided for each alternative.

**Table 1-1
Alternatives Summary**

Environmental Issue	Proposed Project	No Project/No Development	Existing General Plan Designation	Reduced Density
Landform Alteration/ Aesthetics	Mitigable Impacts	Reduced impacts due to lack of changed aesthetic nature	Similar, but does not provide as many transitions between land uses	Similar
Agricultural Resources	Unmitigable Impacts	No Impact	Similar	Similar
Biological Resources	Mitigable Impacts	No Impact	Similar	Similar
Geology and Soils	Mitigable Impacts	No Impact	Similar	Similar
Cultural Resources	Mitigable Impacts	No Impact	Similar	Similar
Paleontological Resources	Mitigable Impacts	No Impact	Similar	Similar
Water Quality/ Hydrology	Mitigable Impacts	No Impact	Similar	Similar but less impervious surface due to less intensity of land use.
Transportation/ Circulation/Access	Mitigable Project Impacts Unmitigable Cumulative Impacts	No traffic impacts, but would not facilitate City's goal of installing infrastructure in western San Jacinto	Similar, but would result in higher traffic volumes that may not be completely mitigated.	Less impacts due to less overall trips
Air Quality	Unmitigable Impacts	No Impact	Greater Impacts	Less impacts but likely still significant and unmitigable due to non-attainment status of basin
Noise	Mitigable Impacts	No Impact	Greater Impacts	Similar
Public Services/Utilities	Mitigable Impacts	No Impact	Similar, but water use and other utility use would be much higher under this alternative	Less impacts due to less demand for services
Hazards/Risk of Upset	Mitigable Impacts	No Impact	Similar	Similar
Meets Most Project Objectives?	Yes	No	No	No

Summary of Environmental Impacts

Table 1-2, Summary of Environmental Impacts, provides a comprehensive list of all project impacts and associated mitigation measures. A statement as to whether residual impacts would occur after mitigation is applied is also provided.

**Table 1-2
Summary of Environmental Impacts**

Topic / Impacts	Mitigation Measures / Design Features Landform Alteration and Aesthetics	Level of Significance after Mitigation
<p>1. The project would introduce additional night lighting within the project vicinity as well as potential new sources of glare (i.e., glass and reflective exterior surfaces). Particularly the commercial components of the site have the potential to produce significant night lighting impacts upon rural agriculture uses in the vicinity as well as proposed residential land uses within the project itself. Metal or other reflective exterior surfaces and finishes within the commercial components of the site could create new sources of light or glare resulting in significant glare impacts for adjacent residential, park, and agricultural uses.</p>	<p>5.2-a To avoid light and glare impacts, future submittals for commercial portions of the project development shall include a photometric lighting plan. The lighting plan shall demonstrate that project lighting is shielded from surrounding properties and that only the minimum amount of lighting required for safety purposes is provided to avoid adverse effects on surrounding areas. In general, lighting fixtures shall be shielded downward and away from the adjacent residential areas and public roadways. Commercial development plans shall also be reviewed to ensure the avoidance of substantial areas of reflective surfaces for building exteriors.</p>	<p>1. Incorporation of mitigation will reduce impacts to below a level of significance.</p>
<p>2. Should Planning Area 14 be purchased by the San Jacinto Unified School District for development as a high school, any potential light or glare impacts would need to be addressed by the School District in the course of their environmental compliance for that project. However, potential homebuyers in the vicinity should be made aware that potential outdoor lighting impacts may occur.</p>	<p>5.2-b A Notice-to-Property Owner shall be recorded on a separate buyer information sheet with the final map providing notice to potential future property owners in the vicinity of the school site (i.e., Planning Areas 1, 3 and 19) that there may be lighted ball fields in the future should the school district proceed with plans for the proposed high school.</p>	<p>2. Incorporation of mitigation will reduce impacts to below a level of significance.</p>
Agricultural Resources		
<p>1. Development of the proposed project would potentially result in significant urban/rural land use conflicts between the planned residential development and existing agricultural uses surrounding the project site. Conflicts would potentially include fertilizer and pesticide application drift into the proposed residential area, residential</p>	<p>5.3-a A Notice-to-Property Owner shall be recorded on a separate buyer information sheet with the final map providing notice to potential future property owners of the proposed development that the property is located in an area of active agricultural land uses which may potentially result in inconvenience and/or discomfort associated with adjacent agricultural operations including noise, odors and dust generation, and chemical drift.</p>	<p>1. The proposed mitigation would serve to alleviate land use conflicts associated with new residential development and existing agricultural land uses. However, this impact would remain significant and unavoidable until surrounding land converts to the ultimate planned uses prescribed under the City's General Plan.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>complaints about noise and dust resulting from site preparation activities associated with adjacent agricultural uses, and increased trespassing onto agricultural lands.</p>		
<p>2. The proposed project would irreversibly convert land currently under agricultural production and identified as containing significant agricultural resources to urban uses and would contribute to incremental urbanization of a predominantly rural area sustaining existing agricultural land uses.</p>	<p>None.</p>	<p>2. The City's General Plan EIR (January 2006) discusses a number of reasons mitigation for loss of agriculture is infeasible. Rising land costs to replace agricultural lands, rising water costs, labor costs, urbanization and environmental regulations all contribute to ongoing conversion of farmland. Without property owner cooperation and substantial financial incentives, it is infeasible to provide permanent on or offsite mitigation to replace converted farmland. Therefore, no feasible mitigation measures are available to reduce this impact below a level of significance.</p>
Biological Resources		
<p>1. Sensitive vegetation communities on the Villages of San Jacinto Project site include 4.22 acres of open water, 0.23 acre of freshwater marsh, 0.07 acre of southern willow woodland, 0.21 acre of herbaceous wetlands, 0.01 acre of cismontane alkali marsh, and 0.01 acre of intermittent unvegetated stream channel. These areas are under the jurisdiction of RWQCB and/or CDFG. All impacts to RWQCB/CDFG jurisdictional areas are considered significant.</p>	<p>5.4-a Mitigation for impacts to jurisdictional wetlands and non-wetlands waters will consist of: (1) off-site creation, (2) a combination of off-site creation and enhancement of wetlands of equal or higher habitat quality, or (3) purchase of wetlands mitigation credits in an approved mitigation bank. Because wetlands/waters on the Villages of San Jacinto project site are isolated, of low overall quality (contain large quantities of non-native species), and are surrounded by agricultural lands, they do not provide high quality habitat for riparian-dependent wildlife species; therefore mitigation onsite would not result in equal or greater wetland habitat value. Mitigation for on-site wetlands/waters impacts would be a biologically equivalent or superior alternative to avoidance of these impacts. The above not withstanding, wetlands areas created, enhanced, or preserved through the project's wetlands mitigation plan would</p>	<p>1. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
	<p>be connected to other wetlands/riparian/riverine areas and would provide overall biological value to the peregrine falcon and other sensitive wildlife and plant species. Wetland mitigation ratios are based on past experience developing appropriate mitigation for impacts to similar wetland and/or Waters of the US.</p> <p>Herbaceous Wetlands, Open Water, Freshwater Marsh and Intermittent Stream Channel</p> <p>Mitigation for impacts to 4.22 acres of open water, 0.23 acre of freshwater marsh, 0.21 acre of herbaceous wetlands, and 0.01 acre of intermittent unvegetated stream channel would be accomplished through creation or purchase of wetlands mitigation credits from an approved mitigation bank at a 1:1 ratio (i.e., 4.67 acres total). (see Section 5.4 in the EIR).</p> <p>Cismontane Alkali Marsh</p> <p>Mitigation for impacts to 0.01 acre of cismontane alkali marsh would be accomplished through the creation, or a combination of creation and enhancement, of wetlands of equal or higher habitat quality at a 3:1 ratio (i.e., 0.03 acre). Mitigation can also be accomplished through the purchase of wetlands mitigation credits in an approved mitigation bank.</p> <p>Southern Willow Woodland</p> <p>Mitigation for impacts to 0.07 acre of southern willow woodland would be required at a ratio of 4:1 (i.e., 0.28 acre) (see Section 5.4 in the EIR). Mitigation can be accomplished through the creation, or a combination of creation and enhancement of wetlands of equal or higher habitat quality. Mitigation can also be accomplished through the purchase of wetland mitigation credits in an approved mitigation bank.</p>	

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>2. Impacts to the burrowing owl are covered in accordance with the Species Conservation Objectives for the burrowing owl listed in the MSHCP. That said, in order to comply with the specific Burrowing Owl Survey Area provisions of the MSHCP, mitigation for direct impacts to known individuals will require mitigation.</p>	<p>5.4-b Per MSHCP, because of the site does not support long term conservation value for burrowing owls, mitigation for impacts to this pair of owls can include passive or active relocation of owls following accepted protocols per the burrowing owl Species Account in Volume II-B of the MSHCP. In addition, MSHCP requires that:</p> <p><i>"Pre-construction presence/absence surveys for burrowing owl within the survey area where suitable habitat is present will be conducted for all Covered Activities through the life of the permit. Surveys will be conducted within 30 days prior to disturbance. Take of active nests will be avoided. Passive relocation (use of one way doors and collapse of burrows) will occur when owls are present outside the nesting season."</i></p> <p>Because impacts to other sensitive wildlife species are covered under the MSHCP, no additional mitigation is proposed for impacts to these species. However, if construction activity is to take place during the breeding season (<i>i.e.</i>, January through October), a one-time biological survey for nesting bird species would be conducted within the proposed impact area no earlier than 72 hours prior to construction. This survey is necessary to assure avoidance of impacts to nesting native birds (per the federal Migratory Bird Treaty Act). If nesting birds are detected within vegetation which is to be impacted, the nest location(s) will be protected. A buffer of 25 to 300 feet (specific width to be determined by the project biologist according to species of bird) around the nest will be avoided until fledging.</p> <p>5.4-c MSHCP requires that night lighting shall be directed away from the MSHCP conservation area. Shielding will be incorporated by the project to ensure that ambient lighting in the MSHCP conservation area is not increased; therefore impacts on potential adjacent MSHCP conservation area lands due to increased lighting would be avoided.</p>	<p>2. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>3. Due to the project's location adjacent to land that could potentially be conserved through the MSHCP Plan, potential indirect impacts related to invasive species may occur.</p>	<p>5.4-d Table 6.2 of the MSHCP lists landscape plant species that shall be avoided for all portions of developments that are located adjacent to (within 1,000 feet) the MSHCP conservation areas. These plant species will be avoided on the areas of the Villages of San Jacinto project site adjacent to Criteria Cells 2775 and 2878 to the west of the project site. This would be achieved by including language in the residential sale documents to ensure that future property owners understand the types of plants that are restricted. Sample language for inclusion in sale documents would be submitted to the Planning Department for approval prior to approval of a certificate of occupancy. Therefore no indirect effects due to invasive species are anticipated.</p>	<p>3. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
Cultural Resources		
<p>1. Due to the presence of five previously recorded sites located within one mile of the project and the fact that the project is located within an alluvial setting, potentially significant archeological resources could be unearthed during site grading.</p>	<p>5.5-a In order to reduce the potential for disturbance or damage to unknown archaeological resources, monitoring of mass grading activities of the site during . by a qualified archaeologist is required. Should the monitor observe disturbance of resources that could be important archaeological artifacts, the monitor shall have the power to stop grading in the immediate area of discovery in order to allow for a resource study and recovery/curation effort (if necessary) to occur.</p>	<p>1. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
Geology and Soils		
<p>1. Many portions of the site are characterized as having unsuitable compressible soils not suitable for structural support. Location of a structure on an unstable geological unit or soil would be a significant impact.</p>	<p>5.6-a The on-site soils are suitable for reuse as compacted fill, provided they are relatively free of organic materials, debris and oversize materials. The optimum lift thickness to produce a uniformly compacted fill will depend on the type and size of compaction equipment used. In general, fill will be placed in uniform lifts not exceeding 8 inches in thickness. Fill soils will be placed and compacted to a minimum 92% relative compaction at a minimum of 2% above the optimum moisture content.</p>	<p>1. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>2. The perched groundwater table may be located between 5 and 22 feet. A shallow groundwater table can present hazards during site development.</p>	<p>Fill slopes shall be overbuilt a minimum of 2 feet and trimmed back to the compacted core or rolled with a weighted sheepfoot compaction roller as the fill slope height increases in maximum 4-foot increments. Placement and compaction of fill shall be performed in accordance with City grading ordinances and minimum compacted standard under the observation and testing of a qualified geotechnical engineer.</p> <p>All loosely packed exploration trench backfill shall be removed and recompacted in accordance with project geotechnical guidelines. An engineering geologist shall be present to observe all excavations to confirm limits of faulting. If exposures differ from anticipated conditions, further investigations and/or additional structural setbacks can be required.</p>	
<p>5.6-b.</p> <p>In localized areas where shallow groundwater conditions exist such that removals cannot be performed to the required depths or where deeper excavations (such as in the proposed "lake" areas) are proposed at or below the existing perched groundwater, methods of localized dewatering will be required including the use of well points and/or interceptor ditch methods. Alternative ground stabilization methods such as deep dynamic compaction shall be required. Deep dynamic compaction is a means of physically compacting the subsurface soils by repeatedly dropping a heavy weight (typically a large concrete block) to densify the underlying soils to a predetermined density. After proposed grading plans are developed, these areas shall be further reviewed by a qualified geotechnical engineer.</p>	<p>To facilitate the grading operations, on-site irrigation water shall be reduced or ceased for a period of 3 to 6 months prior to the start of grading. Further, the contractor will pothole the upper 12 to 14 feet of soil prior to the start of grading operations to determine if shallow groundwater will affect the planned grading.</p>	<p>2. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>3. Potential site ground rupture, as determined by the Leighton and Associates Fault Investigation, is considered moderate to high. Ground rupture due to on-site faults could potentially affect existing and future facilities (such as gas, electrical, water mains, etc.) that traverse fault zones on the site. Secondary seismic effects due to strong ground shaking, ground rupture, liquefaction and seismically induced settlement are considered significant.</p>	<p>5.6-c. A structural setback zone of 50 feet on either side of the encountered fault zone, and as much as 75 feet on the "down-block" side shall be observed for structures intended for human occupancy (2,000 hours/year). This preliminary setback zone will be refined as the grading concept is developed and possible additional site studies are performed. The Fault Location Map (Plate 2) within the Fault Investigation shows required preliminary structural setbacks. However, the final setback limits shall be determined during grading or future studies as the fault trace is exposed, identified and surveyed for lateral and vertical location. The setbacks shall be shown on all project plans.</p> <p>To reduce the effects and magnitude of the earthquake-induced settlements, remedial grading shall occur. Following remedial grading, differential dynamic settlements are anticipated to be approximately 2 inches in a horizontal distance of 40 feet. Additional analysis will be performed by a qualified geotechnical specialist to further refine earthquake-induced settlement. Based on a review of the rough grading plans by a qualified geotechnical specialist, remedial grading requirements will be revised.</p> <p>To reduce the potential adverse secondary seismic effects, mitigation of compressible alluvial soils to support the planned development at areas such as free-face slopes ("green belt" detention basins, channels etc.), the project perimeter (where removals may be limited by property restraints) and planned lake areas will require additional geotechnical stability design by a qualified geotechnical engineer after project plans are developed.</p>	<p>3. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
<p>4. The volume change of excavated on-site materials upon recompaction is expected to vary with materials, density, insitu moisture content, location and intended compaction effort. Therefore, it is likely that on-site ground rupture could potentially affect future</p>	<p>5.6-d. While it is difficult to determine the level of subsidence and shrinkage risk, site grading must include a balance area or ability to adjust import quantities to accommodate some variation. Relative compaction rates must be followed as they appear in the February 28, 2005, Leighton and Associates Technical Report. As stated in the February 28, 2005,</p>	<p>4. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>5. The relatively loose saturated alluvial deposits on site are considered susceptible to liquefaction hazards.</p>	<p>Leighton Report, due to the agricultural discing of the surface soils, a subsidence value of 0.2 feet must be applied when evaluating earthwork volumes.</p> <p>5.6-e. To reduce the potential for liquefaction and earthquake-induced settlements at the site, the following guidelines will be implemented. For preliminary design purposes, a minimum removal and recompaction of 10 feet (as measured from finish grade) will be used in cut areas on that portion of the site designated as having a high potential for liquefaction (roughly the northern one third to one half of the site).</p> <p>In cut areas outside the area designated as high potential for liquefaction, a minimum overexcavation of 5 feet below finish grade must be used. For areas designated as "fill" a minimum removal of 5 feet will be used, provided a minimum total thickness of 10 feet of properly compacted fill is maintained below the lowest adjacent finish grade (including lowest adjacent street elevation). The removal depths for the infrastructure roadways shall be a minimum 5 feet below pavement subgrade. These estimates are for preliminary design planning only and will be revised based on our review of rough grading plans. These preliminary estimates will be revised upon review of the proposed grading concept plan. These alluvial soils must be removed down to medium dense to dense, relatively non-porous alluvium material as determined by the geotechnical consultant. Undercuts will be made 1:1 next to existing roadways that will remain after grading. Cut slopes shall be replaced as properly compacted fill.</p> <p>The excavated materials will be moisture conditioned or dried back, as appropriate, to achieve the required minimum relative compaction. Saturated soils may need to be dried back or mixed with drier on-site materials and shall be thoroughly mixed prior to fill placement. The resultant excavation will be filled and compacted in this lifts to a minimum 92% relative</p>	<p>5. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>6. Manufactured slopes that are planned for construction on the site would be susceptible to slope stability hazards. Slopes adjacent to severe flow direction changes may be susceptible to increases scour erosion and slope stability.</p>	<p>compaction at a minimum of 2% above the optimum moisture content. A minimum 90% relative compaction may be acceptable in the southern portion of the site. This will be determined during review of rough grading plans.</p> <p>After completion of the required removal of unsuitable soils, the approved surface will be scarified, moisture conditioned as needed and compacted prior to placing fill. If subgrade conditions at the approved bottoms are wet and "pumping" near the required removal depth, the scarification and moisture conditioning will not be necessary. Stabilization measures where shallow groundwater conditions are expected at or near the required removal depth may include the use of a stabilization fabric and/or coarse gravel/graded rock and gravel. Where shallow groundwater conditions are present, alternative ground improvement guidelines shall be followed (see Mitigation Measure 5.5-b). Further evaluation of these specific areas will be necessary after draft grading plans are prepared.</p> <p>5.6-f. All slopes will be provided with appropriate surface drainage features and landscaped with drought-tolerant, slope-stabilizing vegetation as soon as possible after grading to reduce the potential for erosion. Berms will be provided at the top of fill slopes to direct water away from slope faces. Lot drainage shall be directed such that runoff on slope faces is minimized. Oversteepening of slopes must be avoided during fine grading and building construction. Although not anticipated, if seepage is encountered in slopes, special drainage features may be necessary.</p> <p>5.6-g. For slopes that are will be adjacent to ditches or other water conveyance features, proper protection including rip rap or other slope protection devices as designed by the project civil engineer would be required. Slope stability and the potential for scour shall be required in the design drainage alignment.</p>	<p>6. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>1. Since the proposed project lies within a geologic formation with high resource bearing potential and the project would necessitate recompaction of potential fossil bearing alluvium, impacts to paleontological resources are considered to be significant. Impacts to paleontological resources could occur during excavation and site development when geologic formations that have resource bearing potential are disturbed. Impacts would occur when fossils are physically destroyed by such activities.</p>	<p>Paleontological Resources</p> <p>5.7-a. Prior to beginning any excavation work, the developer or its contractor shall demonstrate that a qualified paleontologist has been retained to carry out a paleontological resources mitigation program. A paleontological monitor shall be on site at all times during grading activities that disturb non-undocumented fill soils or formations. If fossils are discovered, the paleontologist or paleontological monitor shall have the authority to halt construction in the immediate area of discovery until such a time that a complete assessment of the resources can be conducted. If resources are found that are determined to be significant, the paleontological monitor shall direct activities to recover the resources. Prepared fossils, along with copies of all pertinent field notes, photos and maps shall be deposited in a scientific institution with paleontological collections, such as the San Bernardino County Museum.</p>	<p>1. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
<p>Water Quality and Hydrology</p>		
<p>1. Implementation of the project would increase the amount of impervious surfaces within the local area which would result in increased runoff and reduced on-site water percolation. Increasing an area's impervious surface may result in drainage problems and flooding.</p>	<p>5.8-a. The project is located within the San Jacinto – Area Drainage Plan (SJ-ADP), which is a financing mechanism used to offset costs for construction of proposed Master Drainage Plan (MDP) facilities. The project will be charged a per-acre fee in order to pay a fair share of the price of area-wide drainage facilities.</p>	<p>1. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
<p>2. All lake and drainage features on site would be constructed so they are above the groundwater table so as to prevent intermixing of ground and surface waters. That said, it is possible that during project construction, groundwater may be encountered.</p>	<p>5.8-b. If dewatering becomes necessary during construction, all discharges shall be in accordance with Santa Ana Regional Water Quality Control Board requirements which mandate that dewatered groundwater be tanked and hauled to a legal disposal site for treatment. Dewatering shall not occur in on-site drainages or water features. In addition, if dewatering becomes necessary during construction, a National Pollution Discharge Elimination System dewatering permit shall be obtained from the Santa Ana Regional Water Quality Control Board.</p>	<p>2. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>3. The northern portion of the project site is located within the 100-year floodplain of the San Jacinto River. Development within the floodplain would result in an impedence to flow and an increase in the base flood elevation. Because a portion of the proposed development is proposed to be constructed within the limits of the 100-year floodplain, development of the proposed project will result in potentially significant impacts relating to flood hazards.</p>	<p>5.8-c. All buildings shall be located outside of the 100-year floodplain. The applicant shall process a Flood Insurance Rate Map (FIRM) map revision. Further, the applicant shall obtain a Conditional Letter of Map Revision (CLOMR) prior to issuance of building permits. The project applicant, or subsequent property owners, shall obtain flood insurance, to the extent required by law, to protect against any damage that might occur during a flood event. It must be noted that at the time of EIR publication, the applicant and City had initiated the CLOMR process with the Riverside County Flood Control and Water Conservation District.</p>	<p>3. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
<p>4. Development of the proposed project may result in an increase in pollutant load due to sedimentation. Sediments are soils or other surficial materials eroded and then transported or deposited by the action of wind, water or gravity. Sediment from erosion, primarily during construction, is quite often a major project pollutant of concern. A potentially significant impact could occur during construction related to sedimentation.</p>	<p>5.8-d. During construction, the project will incorporate all City of San Jacinto construction Best Management Practices (BMPs). These BMPs include the following:</p> <ul style="list-style-type: none"> • Erosion control BMPs including temporary seeding, permanent seeding, etc. • Soil stabilization BMPs • Sediment control BMPs including silt fence perimeter controls, surface roughening, tree or natural vegetation preservation and protection, temporary gravel construction entrance/exit, temporary diversions, permanent diversions, outlet stabilization, inlet protection, temporary sediment basins and gravel bay barriers. • Wind erosion BMPs • Minimize contact with Stormwater BMPs including BMPs for construction vehicles and equipment maintenance, fueling and washing, materials maintenance and construction material loading, unloading and access area controls. • Non-storm water BMPs • Post-construction BMPs 	<p>4. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>5. Development of the proposed project may result in an increase in pollutant load due to sedimentation. Sediments are soils or other surficial materials eroded and then transported or deposited by the action of wind, water or gravity. Sediment from erosion, primarily during construction, is quite often a major project pollutant of concern. A potentially significant impact could occur during construction related to sedimentation.</p>	<p>5.8-e. The project applicant will need to develop a Stormwater Pollution Prevention Plan (SWPPP) pursuant to NPDES Storm Water Discharge Associated with Construction Activity Guidelines (Water Quality Order 99-08-DWQ). The SWPPP will identify all BMPs that will prevent construction pollutants from contacting storm water. Measures shall also be designed so as to prevent all products of erosion from moving off site into receiving waters. Provisions will also be included to ensure that BMPs are monitored and success recorded.</p> <p>5.8-f. Structural Best Management Practices (BMPs) are required for new development to improve water quality of stormwater runoff. In order to meet NPDES regulations, the design volume or design flow to be treated must reduce pollutants to the Maximum Extend Practicable (MEP). This project will incorporate a water quality extended detention basin to provide water quality treatment for the runoff emanating from the project site, a volume-based BMP, and a flow-based BMP. Once the project is complete, maintenance will be the responsibility of the Villages of San Jacinto homeowners association.</p> <p>In addition to sizing techniques, several quantity-control Best Management Practices (BMPs) shall be implemented to control runoff:</p> <ul style="list-style-type: none"> • Rainfall shutoff devices shall be used to prevent irrigation during and after precipitation; • Irrigation systems shall utilize a dripping system to eliminate nuisance run-off; and • Backflow preventer/pressure regulators shall be installed. • The project applicant will need to develop a Water Quality Management Plan pursuant to NPDES Permit #CAS 618033, order # R8-2002-001. The Water Quality Management Plan will identify all final site BMP requirements. 	<p>5. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
	<p>The following BMPs may be incorporated into final site designs:</p> <ul style="list-style-type: none"> • Construct community streets, sidewalks and parking lot aisles to the minimum widths necessary; • Incorporate landscape treatment for parking lot runoff; • Use unit pavers or other equivalent porous material to construct walkways, alleys and other low-traffic areas; • Utilize trees in landscaping plans to maximize canopy interception and water conservation; • Plant native trees and maximize canopy interception and water conservation; • Drain rooftops into adjacent landscaping prior to discharging to the storm drain; • Vegetate slopes with native or drought tolerant vegetation; and • Install energy dissipaters at the outlets of new storm drains that enter the regional storm drain system that eventually feeds into the San Jacinto River. • Utilize and install "high to medium efficiency" Post Construction BMP filtration system within the proposed water quality basin that would help reduce as many bacteria and viruses as possible from entering the downstream local stormwater collection system. This system must follow the specifications of the California Stormwater Handbook to ensure that the system provides maximum bacterial/viral capture. 	
<p>6. Transportation, Circulation, and Access</p> <p>1. The project may result in significant impacts to local circulation systems if site specific improvements are not implemented in conjunction with each phase of the project (refer to <i>Figures 5.9-5 thru 5.9-8</i>).</p>	<p>Phase I</p> <p>5.9-a The following measures shall implemented prior to issuance of the first residential and commercial building permits and as depicted on <i>Figure 5.9-5</i>:</p> <ul style="list-style-type: none"> • Construct Sanderson Avenue at its ultimate half-section width as an Urban Arterial roadway from the project's northerly boundary to the project's southerly boundary in 	<p>1. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
	<p>conjunction with development.</p> <ul style="list-style-type: none"> • Construct De Anza Drive at its ultimate full-section width as a secondary roadway from Cawston Avenue to Sanderson Avenue in conjunction with development. • Construct Bridge Street at its ultimate half-section width as a secondary roadway from Street "A" to Sanderson Avenue. • Construct Cawston Avenue at its ultimate half-section width as a secondary roadway from the Phase II southerly boundary to De Anza Drive. • Participate in fair share fees to construct a traffic signal at the following intersection in conjunction with Phase I of the development: <ul style="list-style-type: none"> ○ Sanderson Avenue (NS) at: <ul style="list-style-type: none"> De Anza Drive (EW) • Construct a traffic signal at the following intersection in conjunction with Phase I of the development: <ul style="list-style-type: none"> ○ Sanderson Avenue (NS) at: <ul style="list-style-type: none"> Bridge Street (EW) • Provide stop sign, stop bar, and stop legend at all project driveways that intersect with public roadways and do not meet traffic signal warrants. • Driveway 15 shall be restricted to right in/right out only access. • Sight distance at each project access shall be reviewed with respect to standard Caltrans and City of San Jacinto sight distance standards at the time of preparation of final grading landscape and street improvement plans. • On site traffic signing and striping shall be implemented in conjunction with detailed construction plans for the project site. 	

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
	<p>Phase II</p> <p>5.9-b The following measures shall be implemented prior to issuance of the 432nd residential permit, any additional commercial building permits and as depicted on <i>Figure 5.9-6</i>:</p> <ul style="list-style-type: none"> • Construct Cawston Avenue at its ultimate full-section width as a secondary roadway along the Phase II Cawston Avenue boundaries in conjunction with Phase II of the development. • Driveway 14 shall be restricted to right in/right out only access. • Provide stop sign, stop bar, and stop legend at all project driveways that intersect with public roadways and do not meet traffic signal warrants. • Sight distance at each project access shall be reviewed with respect to standard Caltrans and City of San Jacinto sight distance standards at the time of preparation of final grading landscape and street improvement plans. • On site traffic signing and striping shall be implemented in conjunction with detailed construction plans for the project site. <p>Phase III</p> <p>5.9-c The following measures shall be implemented prior to issuance of the 754th residential permit, the high school, any additional commercial building permits and as depicted on <i>Figure 5.9-7</i>:</p> <ul style="list-style-type: none"> • Construct Odell Avenue at its ultimate half-section width as a secondary roadway from Ramona Boulevard to the project's southerly boundary in conjunction with Phase III development. • Construct Cawston Avenue at its ultimate full-section 	

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
	<p>width as a secondary roadway from Ramona Boulevard to the Phase II northerly boundary in conjunction with Phase III development.</p> <ul style="list-style-type: none"> • Construct Ramona Boulevard at its ultimate half-section width as a secondary roadway from Odell Avenue to Sanderson Avenue in conjunction with Phase III development. • Driveway 5 at Ramona Boulevard shall be restricted to right in/right out only access. • Participate in fair share fees to construct a traffic signal at the following intersection in conjunction with Phase III of the development: <ul style="list-style-type: none"> ○ Cawston Avenue (NS) at: Ramona Boulevard (EW) • Provide stop sign, stop bar, and stop legend at all project driveways that intersect with public roadways and do not meet traffic signal warrants. • Sight distance at each project access shall be reviewed with respect to standard Caltrans and City of San Jacinto sight distance standards at the time of preparation of final grading landscape and street improvement plans. • On site traffic signing and striping shall be implemented in conjunction with detailed construction plans for the project site. • Construct secondary access for PA 19 as approved by the City Engineer. <p>Phase IV</p> <p>5.9-d The following measures shall be implemented prior to issuance of the final remaining commercial building permits and as depicted on <i>Figure 5.9-8</i>:</p> <ul style="list-style-type: none"> • Construct Cawston Avenue at its ultimate half-section width as a secondary roadway from Bridge Street to De 	

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
	<p>Anza Drive in conjunction with Phase IV development.</p> <ul style="list-style-type: none"> • Construct Bridge Street at its ultimate full-section width as a secondary roadway from Cawston Avenue to Street "A" in conjunction with Phase IV development. • Construct the remaining half of Bridge Street as a secondary roadway from Street "A" to Sanderson Avenue in conjunction with Phase IV development. • Driveway 10 at Bridge Street shall be restricted to right in/right out only access. • Driveway 12 at Bridge Street shall be restricted to right in/right out only access. • Driveway 16 at Sanderson Avenue shall be restricted to right in/right out only access. • Construct traffic signals at the following intersections in conjunction with Phase IV of the development: <ul style="list-style-type: none"> ○ Driveway 3 (NS) at: <ul style="list-style-type: none"> • Ramona Boulevard (EW) (Only if High School is constructed) • Street "A"/Driveway 11 (NS) at: <ul style="list-style-type: none"> • Bridge Street (EW) • Street "B"/Driveway 13 (NS) at: <ul style="list-style-type: none"> • Bridge Street (EW) • Participate in fair share fees to construct a traffic signal at the following intersection in conjunction with Phase IV of the development: <ul style="list-style-type: none"> ○ Cawston Avenue (NS) at: <ul style="list-style-type: none"> • Bridge Street (EW) • Provide stop sign, stop bar, and stop legend at all project driveways that intersect with public roadways and do not meet traffic signal warrants. • Sight distance at each project access shall be reviewed with respect to standard Caltrans and City of San Jacinto sight distance standards at the time of preparation of final grading landscape and street improvement plans. 	

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>2. Intersections are projected to operate at unacceptable LOS E or F during the peak hours without improvements. Some required improvements would exceed the General Plan typical roadway cross sections and are therefore not feasible. Improvements in excess of the ultimate planned roadway cross-sections at the study intersections would not be required to achieve acceptable LOS for cumulative conditions with completion of the MCP and SR 79 projects. However, it should be noted that completion of these regional improvements can't be determined by the City.</p>	<p>On site traffic signing and striping shall be implemented in conjunction with detailed construction plans for the project site.</p> <p>5.9-e Because the project, along with many others in the area, is contributing to the city-wide need for street improvements, the project will need to contribute to the Riverside County TUMF and City of San Jacinto DIF programs. As discussed in Section 5.9.2, these fees are collected as part of a funding mechanism aimed at ensuring that local and regional highway capacity keeps pace with projected growth throughout the area. Eligible facilities for funding by the City's DIF program are identified on the City's Facility Needs List, which currently extends through the year 2020. <i>Table 5.9-17, Estimated TUMF and DIF Fee Calculations</i>, includes estimated fee calculations for the proposed project based on current fee rates.</p> <p>Many off-site circulation improvements required as a result of project impacts would be mitigated through participation in the TUMF fee program. Many of the off-site improvements that are needed will be planned, designed and constructed by the City, Riverside County Transportation Department, Riverside County Transportation Commission, other cities or a combination of the above.</p> <p>In order to ensure that all off-site traffic improvements are constructed by the City (or the County/RCTC), prior to construction of specific project phases, the City shall ensure that the improvements are made to compensate for the project's contribution to off-site circulation issues. The project applicant's payment of TUMF and DIF fees will allow the financing mechanism to conduct such improvements.</p>	<p>2. The project would contribute to a significant unavoidable impact for cumulative traffic conditions if the MCP and SR 79 projects are not in place upon completion of the first phase of project development. Because the City can not guarantee that these regional facilities would be in place prior to project build-out, a significant, cumulative impact to regional traffic may occur in the absence of these facilities.</p>
<p>3. The additional worker and construction-related truck trips to and from the project site would potentially affect traffic operations at project area intersections during peak hours.</p>	<p>5.9-f The contractor for each phase of the project shall be required to prepare and implement a traffic control plan (TCP) in order to monitor construction equipment, deliveries and construction worker traffic to eliminate any potential hazards to surrounding roadways due to abnormally high traffic into or out of the site</p>	<p>3. Incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>1. The maximum construction-generated PM₁₀ emissions of 36.58 pounds per day would be below the SCAQMD's quantitative significance threshold of 150 pounds per day. Although such fugitive dust would be short term and would only last during the duration of grading activity, such emissions could cause a public nuisance or further exacerbate the existing PM₁₀ nonattainment situation in the SCAB.</p>	<p>for a concentrated period of time. Each traffic control plan shall outline when flagging operations may be necessary (during large construction equipment arrival or deportation, etc.).</p> <p style="text-align: center;">Air Quality</p> <p>5.10-a Consistent with SCAQMD Rule 403, it is required that fugitive dust generated by grading and construction activities be kept to a minimum with a goal of retaining dust on the site, by following the dust control measures listed below:</p> <ul style="list-style-type: none"> a) During clearing, grading, earth moving, excavation, or transportation of cut or fill materials, water trucks or sprinkler systems shall be used to prevent dust from leaving the site and to create a crust after each day's activities cease. b) During construction, water truck or sprinkler systems shall be used to keep all areas of vehicle movement damp enough to prevent dust from leaving the site. At a minimum, this would include wetting down such areas later in the morning and after work is completed for the day and whenever winds exceed 15 miles per hour. c) Soil stockpiled for more than two days shall be covered, kept moist, or treated with soil binders to prevent dust generation. d) Reduce speeds on unpaved roads to less than 15 miles per hours. e) Halt all grading and excavation operations when wind speeds exceed 25 miles per hour. f) Dirt and debris spilled onto paved surfaces at the project site and on the adjacent roadways shall be swept, vacuumed, and/or washed at the end of each workday. g) Should minor import/ export of soil materials be required, all trucks hauling dirt, sand, soil, or other loose material to and from the construction site shall be tarped and maintain a minimum two feet of freeboard. 	<p>1. Incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>2. Vehicle exhaust results from internal combustion engines used by construction equipment and vehicle which results in emissions of NO_x, VOCs, and CO. Such emissions will be below SCAQMD thresholds, but should be further reduced through the use of project design features and mitigation.</p>	<p>h) At a minimum, at each vehicle egress from the project site to a paved public road, install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long (or as otherwise directed by SCAQMD).</p> <p>i) Review and comply with any additional requirements of SCAQMD Rule 403.</p>	
<p>2. Vehicle exhaust results from internal combustion engines used by construction equipment and vehicle which results in emissions of NO_x, VOCs, and CO. Such emissions will be below SCAQMD thresholds, but should be further reduced through the use of project design features and mitigation.</p>	<p>5.10-b The following shall be adhered to during project grading and construction to reduce VOC, NO_x, and CO from construction equipment:</p> <p>a) Heavy-duty diesel-powered construction equipment manufactured after 1996 (with federally mandated "clean" diesel engines) shall be utilized.</p> <p>b) The engine size of construction equipment shall be the minimum size.</p> <p>c) The number of construction equipment operating simultaneously shall be minimized through efficient management practices to ensure that the smallest number is operating at any on time.</p> <p>d) Construction equipment shall be maintained in tune per the manufacturer's specifications.</p> <p>e) Catalytic converters shall be installed on gasoline-powered equipment.</p> <p>f) Diesel catalytic converters shall be installed.</p> <p>g) Diesel powered equipment shall be utilized in lieu of electric equipment.</p>	<p>2. Less than significant impact. Incorporation of mitigation will further reduce emission levels.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>3. The application of architectural coatings (exterior/interior paint and other finishings) would produce VOC emissions that would exceed the SCAQMD's quantitative significance threshold of 75 pounds per day. This impact is considered significant.</p>	<p>5.10-c The project developer shall use zero-Volatile Organic Compounds (VOC)-content architectural coatings during project construction/ application of paints and other architectural coatings to reduce ozone precursors. If zero-VOC paint cannot be utilized, developer shall avoid application of architectural coatings during the peak smog season: July, August, and September. Developer shall procure architectural coatings from a supplier in compliance with the requirements of SCAQMD's Rule 1113 (Architectural Coatings).</p> <p>The following websites provide information/ lists of manufacturers related to zero-VOC content coatings:</p> <p>a) http://www.aqmd.gov/prdas/brochures/paintguide.html b) http://www.delta-institute.org/publications/paints.pdf c) http://www.cleanaircounts.org/factsheets/FS%20PDF/Low%20VOC%20Paint.pdf</p>	<p>3. Although mitigation is proposed, impacts would remain significant and unmitigable.</p>
<p>4. The projected operational emissions from both area source and vehicular emissions are substantially above the SCAQMD significance criteria for all pollutants except SOx.</p>	<p>5.10-d The applicant shall incorporate the following energy conservation measures into project building plans:</p> <ul style="list-style-type: none"> • Install low NOx water heaters and space heaters • Install heat transfer modules in furnaces • Use light colored, water-based paint and light-colored roofing materials to the satisfaction of the City. • Install solar panels for water heating systems and other facilities and/ or use water heaters that heat water only on demand. • Use passive solar cooling/ heating. • Maximize the use of natural lighting. • Install energy efficient appliances and lighting. • Use landscaping to shade buildings and parking lots. <p>In addition to the above area source mitigations/ required site design features, the following mitigation measures are required in order to minimize long term vehicular impacts:</p>	<p>4. Although mitigation is proposed, impacts would remain significant and unmitigable.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>5. Due to the unknown nature of RCTC-planned transportation improvements, CO hot spots must be assumed. This would result in significant impacts.</p>	<ul style="list-style-type: none"> • Provide preferential parking spaces for employee carpools and vanpools in the commercial and business park land uses. • Install covered bus stops to encourage use of mass transportation. • Coordinate with the local transit agency to provide public transit to the project site. • Develop, in coordination with the City of San Jacinto, public outreach programs to promote alternative methods of transportation. 	
<p>5.10-e</p>	<p>To mitigate the traffic conditions that could result in potential CO "hotspots," the project applicant shall participate in funding off-site traffic improvements which are needed to serve cumulative future traffic conditions through payment of appropriate traffic mitigation fees (Riverside County TUMF and City of San Jacinto DIF fees). TUMF provides a key funding source for General Plan improvements within the project area, including the required improvements related to the Ramona Expressway. It should be noted that this mitigation measure also appears as Mitigation Measure 5.9-e.</p>	<p>5. Although mitigation is proposed, impacts would remain significant and unmitigable.</p>
Noise		
<p>1. Significant noise impacts may occur from exterior noise exposure above 65 dB CNEL for residential, commercial, and park uses located adjacent to the planned ROW for roadway facilities.</p>	<p>5.11-a Residential lots located adjacent to Sanderson Avenue shall include an 11 foot high noise barrier; residential lots adjacent to Ramona Boulevard and Cawston Avenue (between Ramona Boulevard and De Anza Street) shall require noise barriers a minimum of 6 feet in height. The project noise barriers must have a surface density of at least four pounds per square foot, and have no openings or cracks. The noise barriers may be constructed of acrylic glass, any masonry material, earthen berm or a combination of these materials</p>	<p>1. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>2. Noise levels associated with the commercial activities would vary depending on the number of delivery trucks, loading dock areas and customer traffic generated by the commercial site. Similarly, HVAC equipment noise would vary depending on the number and types of equipment selected. Typical roof-top HVAC packaged units generate noise levels of approximately 70 dB at ten feet from the source. These noise sources may result in significant impacts depending on their make, model, location, proximity to adjacent receptors, etc.</p>	<p>5.11-b Individual acoustical analyses shall be prepared as part of site plan/development plan review for future commercial development applications submitted to the City, to ensure noise levels would comply with the City's Draft General Plan noise standards (maximum exterior noise levels of 65 dB CNEL; maximum interior noise levels of 45 dB CNEL) and not result in significant noise impacts at adjacent park land or residences. The applicant for each commercial development proposal would have the responsibility to commission or fund the required acoustical analysis. Although the future building-specific noise study will determine exact specifications, it is likely that interior noise mitigation would consist of sound-rated windows and mechanical ventilation systems for the commercial buildings. All required noise control measures identified in the acoustical analysis shall be made conditions of ultimate development approval to ensure that all measures are implemented to fully mitigate anticipated noise impacts.</p>	<p>2. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
<p>3. Traffic-related noise exposure levels within exterior use areas for the schools (i.e., playground, sports fields, athletic courts, etc.) could exceed acceptable noise standards, thereby resulting in potentially significant noise impacts. Future school buildings that are located in areas exposed to a noise level greater than 60 dB CNEL could exceed an interior noise level of 45 dB CNEL. This would result in a potentially significant impact. There are also residential areas proposed immediately adjacent to the north and east of the elementary school site. Specific residential setback information and the location of the schools facilities are not available. Therefore, until more specific</p>	<p>5.11-c For the high school site, the specified noise barriers along Ramona Boulevard and Cawston Avenue shall be installed to protect exterior use areas of the site from traffic-related noise; OR if the School District desires to forego the construction of the specified noise barriers in favor of selective location of exterior use space, a site specific acoustical analysis shall be prepared to determine adequate noise control for traffic-related noise (i.e., use of buildings to shield exterior use areas, etc.), to ensure that noise levels do not exceed 65 dB CNEL at exterior use areas. The School District would have the responsibility to commission or fund the acoustical analysis to evaluate traffic noise control if the sound walls specified herein are not incorporated into the high school development design. All required noise control measures identified in the acoustical analysis shall be made conditions of development approval.</p>	<p>3. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>setback and school design information is available the elementary school noise impact upon residential land uses to the north and east are considered potentially significant.</p>	<p>5.11-d A Notice-to-Property Owner shall be recorded on a separate buyer information sheet with the final map providing notice to potential future property owners in the vicinity of the school site (i.e., Planning Areas 1, 3 and 19), stating that they could be exposed to noise associated with outdoor activities at the high school. The disclosure will function to make potential buyers aware of the anticipated noise levels/impacts, such that particularly noise-sensitive individuals would have the opportunity to decide against purchase of a home which is subject to these periodic noise conditions.</p>	
<p>4. Two new freeways, State Route 79 (SR 79) and Mid County Parkway (MCP) are currently in various planning stages. Detailed design drawings are not available for these two freeways. However, it is anticipated that the alignments of both freeways would be located at least 1,000 or more feet from the project site. As the area develops, there would be buildings and other structures that would most likely provide shielding between the freeways and the project site that would substantially attenuate the traffic noise. However, for the purposes of the project noise analysis it was conservatively assumed that the potential noise contribution from future SR 79 and MCP freeways would be 60 dB CNEL at the north and east boundaries of the project site.</p>	<p>5.11-e For residences proposed within the future 60 dB CNEL contour, an interior acoustical analysis shall be required prior to the issuance of building permits to ensure that the interior CNEL would not exceed 45 dB. Interior noise mitigation would most likely consist of sound-rated windows and mechanical ventilation systems for the homes. All required noise control measures identified in the acoustical analysis shall be made conditions of building permit issuance.</p>	<p>4. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
<p>5. The generation of construction activities during sensitive time periods for adjacent land uses is considered a significant nuisance. As such, project generated construction noise would pose a potentially significant effect on noise-sensitive</p>	<p>5.11-f Future project-related site preparation and construction activities shall be limited to the hours between 7:00 am and 6:00 pm, Monday through Saturday. No construction shall occur on Federal holidays (e.g., Thanksgiving, July 4th, Labor Day, etc.). Construction equipment maintenance shall be limited to the same hours. Non-noise-generating</p>	<p>5. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
receptors.	construction activities such as interior painting are not subject to these restrictions.	
Public Services and Utilities		
1. The proposed development would result in a minor incremental increase in demand for fire protection services and, with consideration of future cumulative increases in demand for fire protection services associated with other development proposals and area-wide growth, could potentially result in decreased levels of service within the project area and city-wide. This would constitute a significant impact.	5.12-a The Developer shall be required to pay the Development Impact Mitigation Fees, as determined to be necessary by the development agreement, City Community Development Department and Public Works Department to offset impacts on City fire services. The current estimated fee amount is outlined in <i>Table 5.12-1, Fire Facilities Fee Derivation Summary</i> .	1. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.
2. The proposed development would result in a minor incremental increase in demand for police services and, with consideration of future cumulative increases in demand for police services associated with other development proposals and area-wide growth, could potentially result in decreased levels of service within the project area and city-wide. This would constitute a significant impact.	5.12-b The Developer shall be required to pay the Development Impact Mitigation Fees, as determined to be necessary by the development agreement, City Community Development Department and Public Works Department to offset impacts on police services. Current fee amounts are summarized in <i>Table 5.12-2, Police Facilities Fee Derivation Summary</i> .	2. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.
3. Should potential school site in the Specific Plan area not be developed by the District in a timely manner, new student generation of the proposed development may substantially exceed the capacity levels of existing school facilities. As such, impacts to school facilities resulting from the development of the Villages of San Jacinto, as well as potential cumulative impacts of the development in combination with other anticipated projects in the area, are considered potentially	5.12-c The Developer shall be required to pay the Development Impact Mitigation Fees, as determined to be necessary by the development agreement, City Community Development Department, Public Works Department and San Jacinto School District, to offset impacts on school facilities. Requiring payment of the school facility mitigation fees would aid in acquiring the additional resources to provide adequate school facilities necessary to accommodate existing and future residents. Therefore, contribution of the mitigation fees by the	3. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>significant.</p>	<p>developer would ensure that adequate mitigation is provided to reduce potential direct and cumulative school impacts to less than significant levels. Should the developer assist the City in facilitating the construction of the school site identified in the Specific Plan, the City may decide to waive or reduce some portion of the school mitigation fees typically required to an appropriate lesser amount in consideration of the partial mitigation provided by developer-assisted, on-site school facility construction.</p>	
<p>4. Due to the influx of population, the project could result in inconsistencies with AB 393 which governs the quantities jurisdictions, such as the City of San Jacinto, can contribute to local landfill facilities. This would result in a potentially significant impact.</p>	<p>5.12-d Demolition and/or excess construction materials shall be separated on site for reuse/recycling or proper disposal (e.g., concrete asphalt). During grading and construction, separate bins for recycling of construction materials and brush shall be provided on site.</p>	<p>4. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
	<p>5.12-e Landscaping shall be designed and located to utilize drought tolerant species, minimize irrigation, and to reduce green waste generation.</p>	
	<p>5.12-f The developer shall develop and submit a Solid Waste Management Plan to be reviewed and approved by the City Public Works Solid Waste Division and Planning and Development, and shall include:</p> <ul style="list-style-type: none"> • Provision of space and/or bins for the storage of recyclable materials within the project site, • Methods of waste collection • Information programs to future residents regarding disposal of hazardous wastes. 	

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features Hazards/Risk of Upset	Level of Significance after Mitigation
<p>1. Due to the historic use of approximately 20 acres of the property as a heifer raising farm, the presence of manure may result in significant environmental impacts related to methane gas exposure.</p>	<p>5.13a In order to ensure that methane hazards do not exist on the 20 acre portion of the site formerly used for heifer raising activities, the Riverside County's Methane Investigation Protocol shall be followed during and after site preparation. After grading of the 20 acres, methane gas sampling and any associated mitigation mechanism installation shall occur in accordance with the most recent Riverside County Department of Environmental Health protocols.</p>	<p>1. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
<p>2. The issuance of the Regional Water Quality Control Board's "no further action" letter indicates that hazardous materials previously present on the site have been removed to a level that no longer poses a threat to the environment. Therefore, while the project site contains historic environmental hazards, these hazards have been removed and would no longer pose significant health risks to the public or environment. That said, regulatory procedures may be required to officially determine the site safe for reuse.</p>	<p>5.13b The Regional Water Quality Control Board and Department of Health Services shall be notified of potential site reuse in accordance with the December 26, 2001, "no further action" letter provided for the remediated leaking underground storage tanks. These agencies may require additional processing or testing depending on the ultimate reuse of the specific area contaminated. In order to ensure that regulatory compliance has been met, on-site soils shall be tested prior to grading to determine the presence of contaminants. Testing results will help determine if permissible levels of contaminants have been exceeded. If levels have been exceeded, impacted soils shall be remediated in accordance with Riverside County Department of Health Service protocol.</p>	<p>2. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
<p>3. Historic windmills were often powered by diesel fuel. The diesel fuel source was often stored in underground storage tanks. During the Phase I Site Assessment, diesel storage tanks were not noted nor did they appear on federal or state databases within the vicinity of the old windmill. That said, often underground storage tanks are unreported and therefore could be discovered during grading. If an underground storage tank or stained soil or soil with a petroleum hydrocarbon odor is uncovered, a potentially significant impact could occur.</p>	<p>5.13c The former windmill site shall be flagged prior to site grading. During site grading near the former windmill site, a qualified hazardous materials specialist shall monitor grading activities. If an underground storage tank or petroleum hydrocarbon odor-laden soil is uncovered near the old windmill site, grading and site work shall cease and the Regional Water Quality Control Board and Riverside County Department of Health Services notified. A remediation plan shall be developed to ensure that all contaminated soil and structures are removed, handled and disposed of in accordance with existing state and local regulations. Sampling in the area of impacted soils shall continue until contaminant levels reach an acceptable risk.</p>	<p>3. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>4. Petroleum stained soil was observed beneath the diesel above ground storage tank located northwest of the reservoir, near the irrigation groundwater well located southwest of the reservoir and on the floor of the equipment shed, beneath three oil containing 55-gallon drums.</p>	<p>5.13d In order to mitigate for potential hazards associated with petroleum stained soil beneath diesel storage tanks and on the floor of the equipment shed beneath 55-gallon oil storing drums, collection of surface and near surface samples by a qualified hazardous materials specialist must occur. Following removal of the equipment shed, observations will be made for any stained soil beneath the shed. If stained areas are observed, surface and near surface samples shall be collected. Testing for contaminant levels must occur and an assessment of significance under state and local hazardous material regulations must follow. Once contaminant levels are determined, the Regional Water Quality Control Board and Riverside County Department of Environmental Health must be contacted to determine the proper mitigation method prior to site redevelopment. Any soil and other materials contaminated with hazardous materials may be considered hazardous waste and therefore must be disposed of in accordance with federal, state and local regulations.</p>	<p>4. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
<p>5. Debris, including old equipment, water heaters, trash, etc. were observed in several piles throughout the site. In order to avoid potential significant impacts related to improper disposal of debris piles.</p>	<p>5.13e During removal of debris piles, a qualified hazardous materials specialist shall be on site. The hazardous materials specialist will conduct a site assessment of debris pile content and direct disposal accordingly. All waste products will be disposed of in accordance with state and local laws.</p>	<p>5. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
<p>6. Two septic systems are located on site.</p>	<p>5.13f In order to mitigate for potential hazards associated with existing septic tanks on site, the construction contractor shall remove the tanks and residue material in accordance with Riverside County Department of Environmental Health protocol. The project applicant will then be required to provide proof of septic tank removal to the City prior to issuance of building permits.</p>	<p>6. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>
<p>7. Once the project is developed, domestic water will come from imported water sources from Eastern Municipal Water District rather than on-site groundwater supplies. Three on-site groundwater wells and any additional</p>	<p>5.13g In order to prevent groundwater contamination, the three on-site groundwater wells and vapor monitoring well, and any additional wells uncovered during site development, shall be abandoned and decommissioned in accordance with Regional Water Quality Control Board and Riverside County</p>	<p>7. Potential impacts would be significant but incorporation of mitigation will reduce impacts to below a level of significance.</p>

Table 1-2 (Continued)

Topic / Impacts	Mitigation Measures / Design Features	Level of Significance after Mitigation
<p>wells that are discovered during site development will need to be closed as part of the project and may have environmental impacts.</p> <p>8. Due to the age of many on-site buildings, the potential for asbestos-laden and lead-based paint materials exist on site.</p>	<p>Department of Health protocols. The project applicant will be required to provide proof of well decommissioning to the City prior to issuance of building permits.</p> <p>5.13h Prior to demolition of onsite buildings, an asbestos survey shall be performed by a certified asbestos abatement contractor. Findings in the survey shall be used to determine what precautions shall be taken during demolition activities. If asbestos is present, removal shall occur in accordance with Riverside County Department of Environmental Health protocol.</p> <p>5.13i All building material suspected to contain lead-based paint shall be tested prior to demolition. If lead-based paints are present, removal shall occur in accordance with Riverside County Department of Environmental Health protocol.</p>	<p>8. Potential impacts would be less than significant.</p>

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SECTION 2.0 INTRODUCTION

2.1 PURPOSE AND SCOPE OF THE RECIRCULATED DEIR

A Draft Environmental Impact Report (DEIR) for the Villages of San Jacinto Specific Plan was originally circulated for a 45-day public comment period in April 2006 (State Clearinghouse No. 2004122132). After the close of public review, the project applicant proposed several project description changes, including a revised drainage scenario, an extension of the project build-out, and inclusion of a development agreement as an additional discretionary action. As Lead Agency, the City of San Jacinto determined that these changes necessitated a Recirculated Draft EIR (RDEIR). Consequently, the City prepared an RDEIR to address the project description changes, which was circulated for a 45-day public review period in January 2007. Although the entire EIR was recirculated, only the environmental topics that were revised were subject to an additional review and comment period by the public: Those topics included geology and soils, water quality and hydrology, air quality, noise, and public services and utilities. During March 2007, a Final EIR was prepared to address comments received during the two public review periods. The City Planning Commission recommended approval of the project and certification of the Final EIR in April 2007. Minor changes in the project description delayed consideration of the project before the City Council until June 2008, and subsequently the project was continued in order to respond to questions, comments, and concerns raised at the June 2008 City Council meeting. Partially in response to City Council comments and current market demand, the applicant chose to update the Villages of San Jacinto Specific Plan and the Land Use Plan and to recirculate the EIR a second time to adequately notify the public of the revised project's potential environmental impacts.

Section 15088.5 of the State California Environmental Quality Act (CEQA) Guidelines requires lead agencies to recirculate an EIR when significant new information is added to the EIR after public notice is given of the availability of the DEIR for review but before certification. New information can include changes in the project or environmental setting as well as additional data or other information. Since new information that was not previously described in the April 2006 DEIR or the January 2007 RDEIR has become available, the City has determined that it is appropriate to prepare this RDEIR No. 2 for public review.

As required by State CEQA Guidelines Section 15088, the City will evaluate comments received on the RDEIR No. 2. The comments and responses will be included in the Final EIR as a separate section along with revised EIR text necessitated by the response to comments (if necessary). Comments on the RDEIR No. 2 should be limited to the EIR sections/environmental issues that were modified. The following section describes the new information analyzed in this

RDEIR No. 2. The RDEIR No. 2 will retain the same SCH number (noted above) in order to establish a reference to the prior documents prepared for this project.

2.2 BACKGROUND AND CONTENT OF THE RECIRCULATED DEIR

Consistent with the requirements of Section 15088.5(c) of the State CEQA Guidelines, this RDEIR contains all sections of the DEIR. However, in accordance with CEQA requirements, comments on the RDEIR shall be limited to the EIR sections that have changed. The following sections have been modified. All section numbering is consistent with the section numbering of the April 2006 DEIR.

Section 1.0, Executive Summary: The Executive Summary has been updated to reflect the revised project description, all new mitigation measures, and any additional significant impacts that have occurred due to project changes.

Section 2.0, Introduction: This section includes a summary of all sections that have changed since preparation of the April 2006 DEIR and January 2007 RDEIR, and a brief description of the history of the project's EIR process to date.

Section 3.0, Project Description: Project features that have been revised include the project site plan, mixture of land uses, drainage and other infrastructure components of the Specific Plan, the tentative map, and construction phasing. Graphics in this section have been revised to show those changes.

Section 4.0, Environmental Setting: This section has been updated to describe changes in existing land use on the site since preparation of the April 2006 DEIR and January 2007 RDEIR.

Section 5.1, Land Use, Planning, and Zoning: This section has been revised to reflect the newly proposed land use plan and its relationship with the existing City General Plan. Since the City's General Plan was being updated during preparation of the original DEIR, the revised RDEIR section has been updated to reflect the final, adopted General Plan Update (May 2006). The land use graphics have also been updated to reflect the revised land use plan and tentative map. The impact analysis has been revised to provide a discussion of each individual CEQA threshold of significance.

Section 5.2, Landform Alteration and Aesthetics: This section has been revised to reflect revised visual resource General Plan policies included in the 2006 General Plan Update, newly proposed land uses, and revised open space corridors that may impact the ultimate visual appearance of the site once developed. The discussion of existing visual quality has been updated to reflect the changed site appearance including absence of the cattle feed lot and removal of

most of the agriculture. The impact analysis has been revised to provide a discussion of each individual CEQA threshold of significance and the potential visual impact of a proposed 11-foot sound wall. Updated photos of the project site are also included.

Section 5.3, Agricultural Resources: This section has been amended to reflect the fact that cattle are no longer being raised on the site and the majority of agricultural operations have ceased. The impact analysis has been revised to provide a discussion of each CEQA threshold of significance. There is also a discussion which explains the reasons there are no feasible mitigation measures to replace converted farmland.

Section 5.4, Biological Resources: This section has been revised to clarify that mitigation for project impacts to jurisdictional wetlands would be provided off-site since the on-site wetlands were found to be of low overall quality (containing large quantities of non-native species), and do not provide high quality habitat for wildlife species due to the surrounding agricultural lands. The impact analysis has been revised to provide a discussion of each CEQA threshold of significance and to clarify minor technical specifics regarding the status of species found or expected to be encountered onsite.

Section 5.5, Cultural Resources: This section was revised to clarify the lack of historical integrity of the onsite structure and to explain the existing Soboba Consulting Services Contract which helps avoid potential impacts to unmarked Native American burial sites or other impacts to lands considered sacred by local Native American peoples. The impact analysis has been revised to provide a discussion of each individual CEQA threshold of significance.

Section 5.6, Geology and Soils: This section has been amended to reflect the modified site plan and to show the structural setback zones on the updated land use plan. The impact analysis has been revised to provide a discussion of each individual CEQA threshold of significance.

Section 5.7, Paleontological Resources: The impact analysis has been revised to provide a discussion of each individual CEQA threshold of significance.

Section 5.8, Water Quality and Hydrology: This section has been revised to reflect impacts associated with changes in the updated drainage study provided in *Appendix G* and includes the updated Drainage Plan depicted in the Specific Plan. It also contains a summary of updated water quality issues discussed in the revised Specific Plan and in the *Lake Preliminary Design Report* (Pacific Aquascape, Inc. 2009). The impact analysis has been revised to provide a discussion of each individual CEQA threshold of significance.

Section 5.9, Transportation, Circulation, and Access: A modified traffic study has been prepared to reflect the revised project and changed surrounding circulation system conditions, and is summarized in this section. The entire updated traffic report is contained in Appendix H.

The impact analysis has been revised to provide a discussion of each individual CEQA threshold of significance.

Section 5.10, Air Quality: This section has been updated to reflect (1) revised and new ambient air quality standards, (2) changes in attainment status with federal and state ambient air quality standards in the South Coast Air Basin, (3) ambient air quality data for the San Jacinto River Valley, and (4) other regulatory changes since January 2007. This analysis also includes a comparison of the project to the South Coast Air Quality Management District's Local Significance Thresholds. Construction and operational emissions have been revised using the current air quality model as well as the land uses and trip generation rates associated with the revised project. This section also includes a discussion of greenhouse gases and global climate change, in order to comply with legislative and CEQA mandates that have been established subsequent to the preparation of the DEIR and first RDEIR. The impact analysis has been revised to provide a discussion of each individual CEQA threshold of significance. Revised and new air quality models are contained in Appendix I.

Section 5.11, Noise: The acoustical analysis has been updated to reflect changes in the new traffic report as well as the revised land use plan. Revised noise analysis models are contained in Appendix J. The impact analysis has been revised to provide a discussion of each individual CEQA threshold of significance.

Section 5.12, Public Services and Utilities: The revised drainage plan has been incorporated into the Public Services and Utilities section to assess the potential impacts to stormwater runoff from development of the proposed project. This section includes figures that update the water and sewage systems to reflect changes in the Specific Plan. In addition, development impact fees, consumption, and other project impacts have been updated to reflect the revised unit number, commercial square footage, and related impact discussions. The impact analysis has been revised to provide a discussion of each individual CEQA threshold of significance.

Section 5.13, Hazards/Risk of Upset: This section reflects changes in existing site conditions including removal of cattle and some of the buildings. The impact analysis has been revised to provide a discussion of each individual CEQA threshold of significance.

Section 6.0, Cumulative Impacts: This section has been updated to include new projects that have been proposed since 2005 and to confirm the status/project descriptions of all projects that were listed in the 2006 Draft EIR. Projects that were included in the original cumulative impact analysis that are no longer active/being contemplated have been removed. The cumulative impact analysis has been revised based on the City's updated list of active projects.

Section 7.0, Effects Found Not to be Significant: The population and housing discussion has been updated to reflect the correct number of housing units.

Section 9.0, Significant Irreversible Environmental Changes: A discussion has been added to this section to identify significant environmental effects that cannot be avoided if the proposed project is implemented. The population and housing discussion has been updated to reflect the correct number of housing units.

Section 10.0, Project Alternatives: This section was revised to update reference to the recently revised City of San Jacinto General Plan. It also reflects changes to the project description and project impacts, clarification of the reasons an alternate site location is infeasible, and further clarification as to the reasons each alternative would or would not meet project objectives.

Section 11.0, References: This section includes a comprehensive listing of all new sources of information used in the preparation of the RDEIR No. 2.

Section 12.0, List of Preparers: This section was revised to include the project team members who participated in preparation of the RDEIR No. 2.

2.3 RELATION TO DEIR

Consistent with the requirements of CEQA Guidelines Section 15087, this RDEIR No. 2 is being made available on August 27, 2009, for public review for a period of 45 days. The public review period ends on October 12, 2009. During this period, the general public, agencies, and organizations may submit written comments on the RDEIR to the lead agency. Pursuant to procedures set forth in CEQA Guidelines Section 15088.5(f)(2), reviewers are requested to limit their comments to the materials contained in this RDEIR.

As required under CEQA Guidelines Section 15087 and 15088.5(d), the City has sent a Notice of Availability to all organizations and members of the public who were on the City's distribution list for the DEIR and to any additional persons or organizations that have requested copies of the DEIR and any individuals/organizations who commented on the April 2006 DEIR or the January 2007 RDEIR. It should be noted that all comment letters previously submitted for the April 2006 Draft EIR and the January 2007 Recirculated Draft EIR are still part of the project record.

2.4 PURPOSE AND SCOPE OF THE EIR

EIRs are informational documents "which will inform public agency decision-makers and the public generally of the significant environmental effect of a project, identify possible ways to minimize the significant effects, and describe reasonable alternatives to the project" (Section 15121 of the CEQA Guidelines). The purpose of this RDEIR No. 2 is to evaluate changes in potential environmental effects of the proposed Villages of San Jacinto Specific Plan development from previous drafts. This RDEIR No. 2 is intended for use by both decision makers and the public. It provides relevant information concerning the potential environmental effects and mitigation

associated with the development and function of a residential, commercial, and mixed-use type development on the site. The Lead Agency for the project is the City of San Jacinto.

2.5 CEQA REQUIREMENTS

CEQA Compliance

This EIR has been prepared in accordance with CEQA (Public Resources Code Section 21000 et seq.); the CEQA Guidelines published by the Resources Agency of the State of California (California Code of Regulations Sections 15000 et. seq, as amended); and the City of San Jacinto Environmental Review Procedures.

Notice of Preparation

In compliance with Section 15082 of the CEQA Guidelines, the City of San Jacinto Planning and Building Department circulated a Notice of Preparation (NOP), dated December 27, 2004, to interested agencies, groups, and individuals. All comments received during the NOP public notice period were considered during the preparation of the April 2006 DEIR. The NOP and comments are included in *Appendix A* of this RDEIR No. 2. Based on the scope of analysis for the April 2006 DEIR, the following issues were determined to be potentially significant and are therefore included in *Sections 5.0 through 9.0* of this RDEIR No. 2 (revised sections are listed in *Section 2.2* above):

- Land Use, Planning, and Zoning
- Landform Alteration/Aesthetics
- Agricultural Resources
- Biological Resources
- Cultural Resources
- Geology and Soils
- Paleontological Resources
- Water Resources and Water Quality
- Transportation, Circulation, and Access
- Air Quality
- Noise
- Public Services and Utilities
- Hazards/Risk of Upset.

2.6 USES OF EIR/TYPE OF EIR

As the designated Lead Agency, the City of San Jacinto has assumed responsibility for preparing this document. The RDEIR No. 2 has been made available for review to the public and public agencies for 45 days to provide comments on the "sufficiency of the document in identifying and analyzing the possible impacts on the environment and ways in which the significant effects of the project might be avoided or mitigated" (Section 15204 of the CEQA Guidelines).

The proposed Villages of San Jacinto RDEIR No. 2 is intended to be a "project" EIR. As stated in CEQA Guidelines Section 15161, a Project EIR "should focus primarily on the changes in the environment that would result from the development project. The EIR shall examine all phases of the project including planning, construction and operation." Specific project details, including overall planning, construction, and operation, are known at this time; therefore, a project-specific level of analysis is appropriate for this RDEIR.

2.7 AREAS OF CONTROVERSY

Per CEQA Guidelines Section 15123, an EIR shall contain a summary that identifies each significant effect of the project and mitigation measures (See *Table 1-2, Summary of Environmental Impacts*) as well as "areas of controversy" and "issues to be resolved." The project assumes that the locally preferred alignment of a future State Route 79 corridor is chosen. Some property owners in the vicinity have raised objections at prior public hearings for this project regarding the locally preferred alignment.

Eastern Municipal Water District (EMWD) requested in its May 16, 2006 letter responding to the April 2006 Draft EIR that they would like between a 1,320 to 2,000 foot buffer between its water reclamation facility and the nearest residential areas within the proposed project. As discussed in Section 5.1.4, the nearest residential lots to the treatment plant would be located over 1,000 feet from the plant boundary and would be separated by mixed use, commercial, recreation and internal roadways.

2.8 ISSUES TO BE RESOLVED

Section 5.9, Transportation, Circulation and Access, indicates that in the absence of planned regional transportation facilities (i.e., the Mid-County Parkway or MCP and SR-79 improvements), the project would contribute to a significant unavoidable impact for cumulative traffic conditions if the MCP and SR-79 projects are not in place upon completion of the first phase of project development. Because the City can not guarantee that these regional facilities would be in place prior to project build-out, a significant, cumulative impact to regional traffic may occur in the absence of these facilities.

2.9 RELATIONSHIP TO OTHER DOCUMENTS

This document utilizes a number of planning documents as detailed in *Section 5.1, Land Use*. These documents include the City of San Jacinto General Plan (adopted on May 4, 2006); the Zoning Ordinance of the City of San Jacinto (updated April 22, 2008); the City of San Jacinto Redevelopment Plan; the Transportation Uniform Mitigation Fee (TUMF) 10-Year Strategic Plan (adopted by the Western Riverside Council of Governments (WRCOG) in June 2004); the Western Riverside County Multiple Species Habitat Conservation Plan (adopted June 17, 2003); the Southern California Association of Governments (SCAG) Growth Management Plan ; and the South Coast Air Quality Management District Air Quality Management Plan (adopted August 1, 2003); These documents are incorporated by reference in this document per the provisions of Section 15150 of the State CEQA Guidelines.

SECTION 3.0 PROJECT DESCRIPTION

3.1 PROJECT LOCATION

The proposed project is located in the City of San Jacinto (the City) in northwestern Riverside County, California (*Figure 3.0-1, Regional Map*). The project site is located in the northwestern portion of the City (*Figure 3.0-2, Vicinity Map*). The project is located along Sanderson Avenue, which is one of the City's main north–south transportation routes. The project site is bordered by undeveloped agricultural land to the north (and future westward extension of Ramona Boulevard), Sanderson Avenue to the east, Odell Avenue to the west, and undeveloped agricultural land and a municipal wastewater treatment plant to the south (*Figure 3.0-3, Site Location Map*). The proposed project is scheduled to be constructed in several phases (see *Phasing and Construction Planning*, page 3-18).

Land uses in the project area consist mainly of agricultural operations, including sod farms, dry farming, animal grazing pastures, and dairies. Several parcels within this portion of San Jacinto are in the process of being developed with residential subdivisions or commercial centers. Two drainage features, associated with the nearby San Jacinto River, are located within the vicinity of the project: Casa Loma Canal and San Jacinto Reservoir. The Colorado River Aqueduct is located north of the project. The Eastern Municipal Water District (EMWD) Hemet/San Jacinto Regional Water Reclamation Facility is located directly south of the project site.

State Route 79 (SR-79) and Sanderson Avenue serve as major north–south transportation corridors through this portion of the City. Ramona Expressway, located north of the project site, serves as the main east–west arterial through the City. Enhanced access to the western portion of San Jacinto will occur through the future widening and realignment of SR-79 and Ramona Expressway.

3.2 PROJECT SITE BACKGROUND

The project site is approximately 475.1 acres in size. The project site has been used as pasture land and/or a farming operation, similar to surrounding properties, for over one hundred years. In 1978, a 20-acre area of the project site was converted to a cattle raising facility. In 1997, a majority of the remaining property was leased to the Quality Turf Company. The San Jacinto Valley has traditionally supported agriculture and rural residential land uses, but has recently been experiencing increased urbanization.

One residence and one small outbuilding are located on the project site (see *Figure 5.13-1*). The residence and the outbuilding (likely a former equipment storage shed) are both abandoned. A

portion of the project site is currently used for sod farming generally in the northwestern portion of the site.

3.3 SITE DESCRIPTION

The site is generally flat and is located on the alluvial plain of the San Jacinto River. The site elevation above sea level ranges from 1,455 feet along the northern edge to 1,490 feet in the southeastern corner. The southeastern corner of the site is a former cattle feed lot with several remaining shade structures associated with that operation. The remainder of the land consists primarily of vacant former agricultural land. Vegetation on site consists of weedy invasive species that have accumulated since the majority of agricultural production was discontinued. There are scattered sod fields in the northern portions of the property, which is the only remaining agricultural operation. Several unnamed, unimproved dirt roadways traverse the site and are associated with former and current agricultural operations. Irrigation canals run along the edges of fields in support of sod farming activities. A detention basin is located along the north-central edge of the project site.

3.4 PROJECT OBJECTIVES

Specific objectives for the proposed project include the following:

- Provide for the establishment of a master-planned community through implementation of a Specific Plan, consisting of a maximum of 1,329 dwelling units, which is consistent with the scale and character of planned uses in surrounding areas.
- Provide a variety of detached single-family lot sizes in traditional subdivision layouts that are marketable within the evolving economic and demographic profile of the City of San Jacinto.
- Provide public and private recreational amenities for the benefit of residents of this community and of the City of San Jacinto.
- Provide drought-tolerant and water-efficient landscaping for the community.
- Incorporate recycled water from EMWD to supply the lake and irrigate landscaping to minimize the use of potable water.
- Provide development opportunities for municipal, office, professional, and neighborhood retail commercial land uses within the community to support the economic growth of the City and to reduce the reliance of automobile use within the surrounding community.
- Consider topographic, geologic, hydrologic, and environmental opportunities and constraints to create a design that safely accommodates seismic and hydrologic hazards.

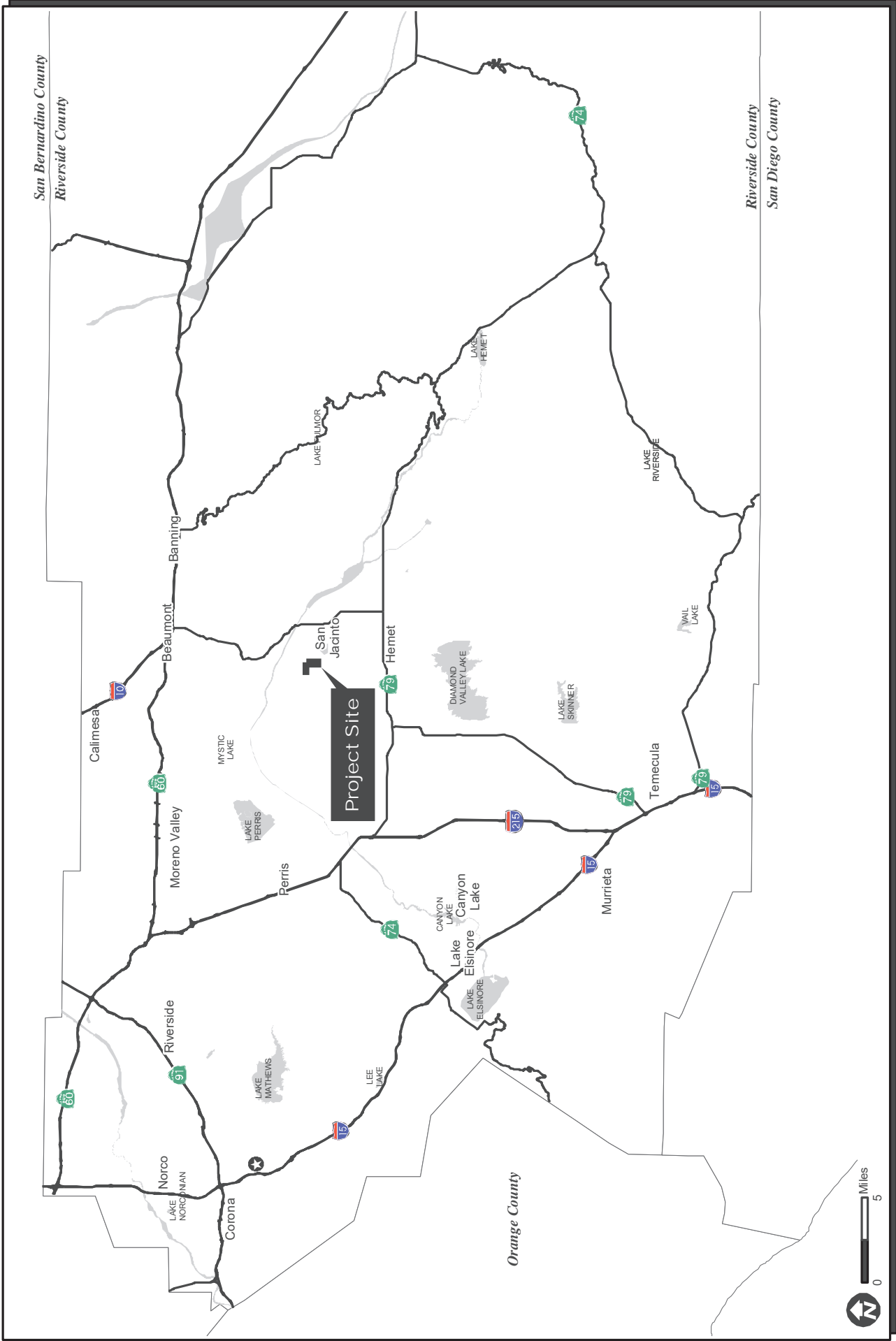
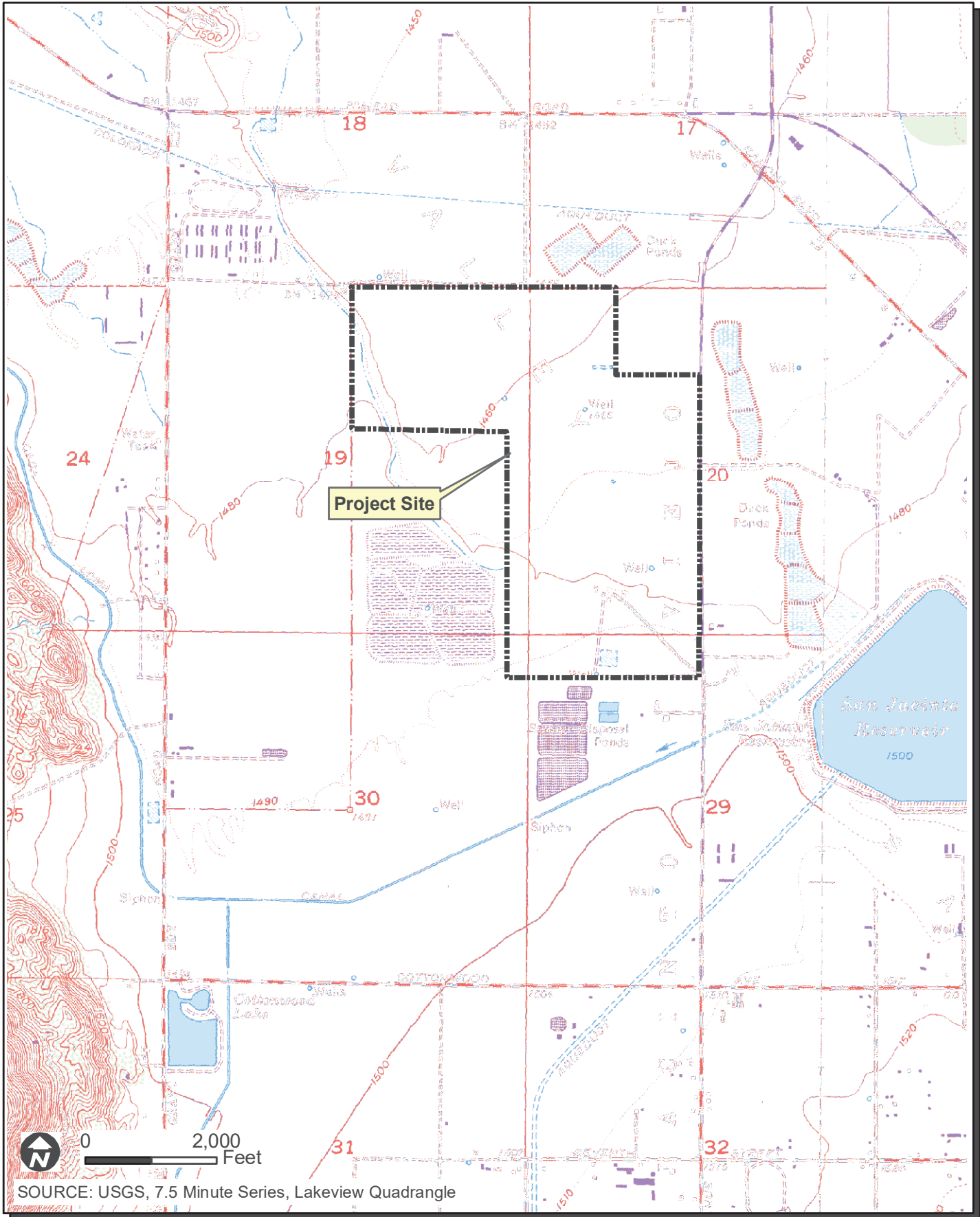


FIGURE 3.0-1

Villages of San Jacinto EIR Regional Map

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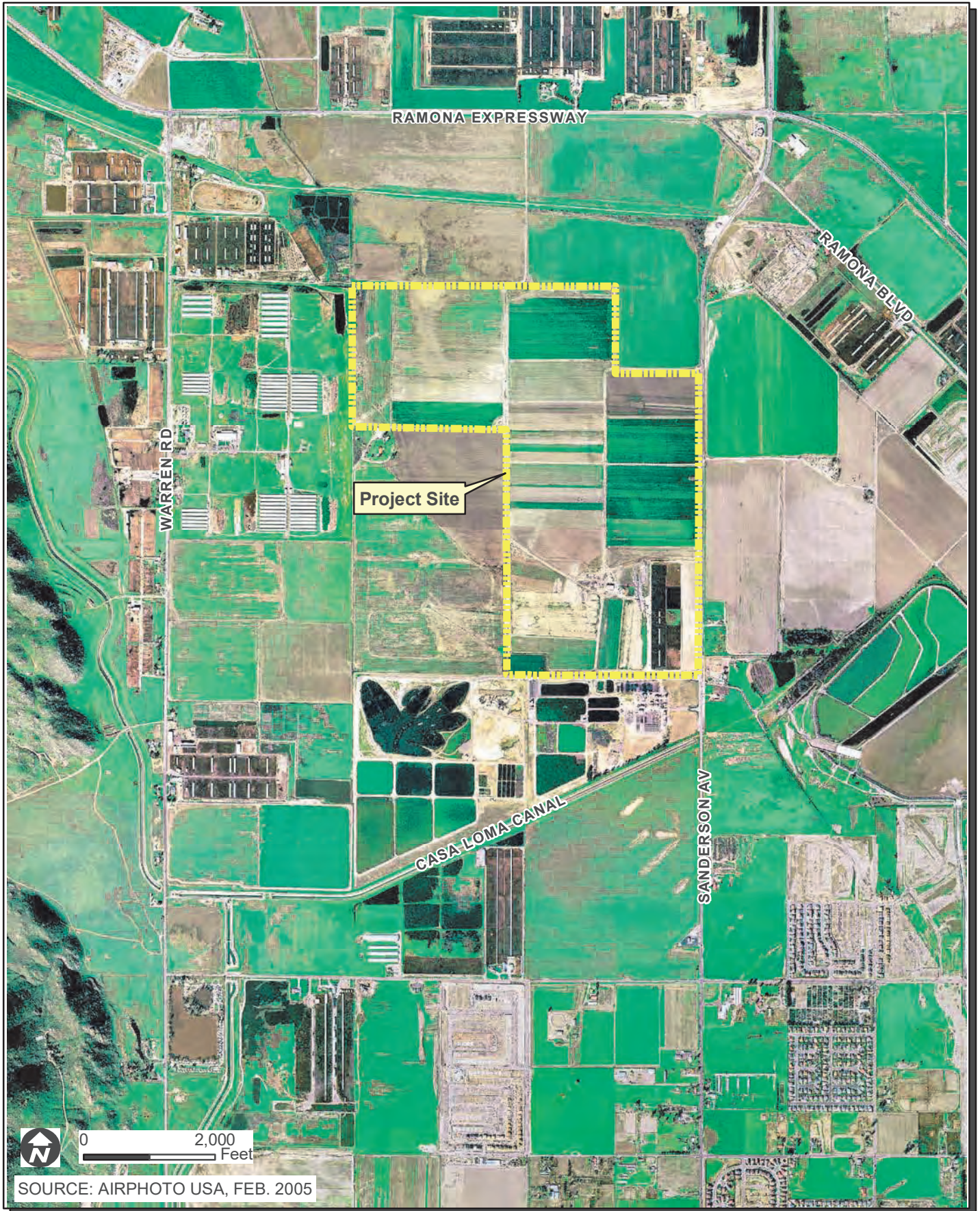


SOURCE: USGS, 7.5 Minute Series, Lakeview Quadrangle

Villages of San Jacinto EIR
Vicinity Map

FIGURE
3.0-2

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Villages of San Jacinto EIR
Site Location Map

FIGURE
3.0-3

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- Provide a system of public and community facilities within residential neighborhoods to support development in an efficient and timely manner.
- Provide a development with unified design elements, such as architecture, landscaping, color palette, paving, walls, fencing, signage, and entry treatments.
- Develop an environment that is visually attractive, efficient, and effectively organized, which includes a pleasing landscape palette.
- Integrate the project with the character of the surrounding community and establish development that results in logical, coordinated growth.
- Establish a circulation system that meets projected traffic volumes and accommodates a variety of transportation modes and encourages alternatives to automobile use within the community.

3.5 PROJECT FEATURES

The project would consist of development of an existing agricultural operation into a suburban development, including residential, commercial, public facility, and open space uses. The 475.1-acre site would be divided into several "Planning Areas" (PAs). Each PA would consist of a distinct land use type. Land use statistics are summarized in *Table 3.0-1, Planned Land Uses*, and land uses and densities anticipated in each PA are listed in *Table 3.0-2, Planned Land Uses by Planning Area*. *Figure 3.0-4, Specific Plan Land Use Plan*, provides a generalized site development plan depicting each PA and associated land use. *Table 3.0-2* provides a summary of the intensity of use planned within each PA.

The following is a detailed description of each of the proposed land uses within the proposed project, which is illustrated on *Figure 3.0-4, Specific Plan Land Use Plan*, and delineated in *Table 3.0-1, Planned Land Uses*.

Residential

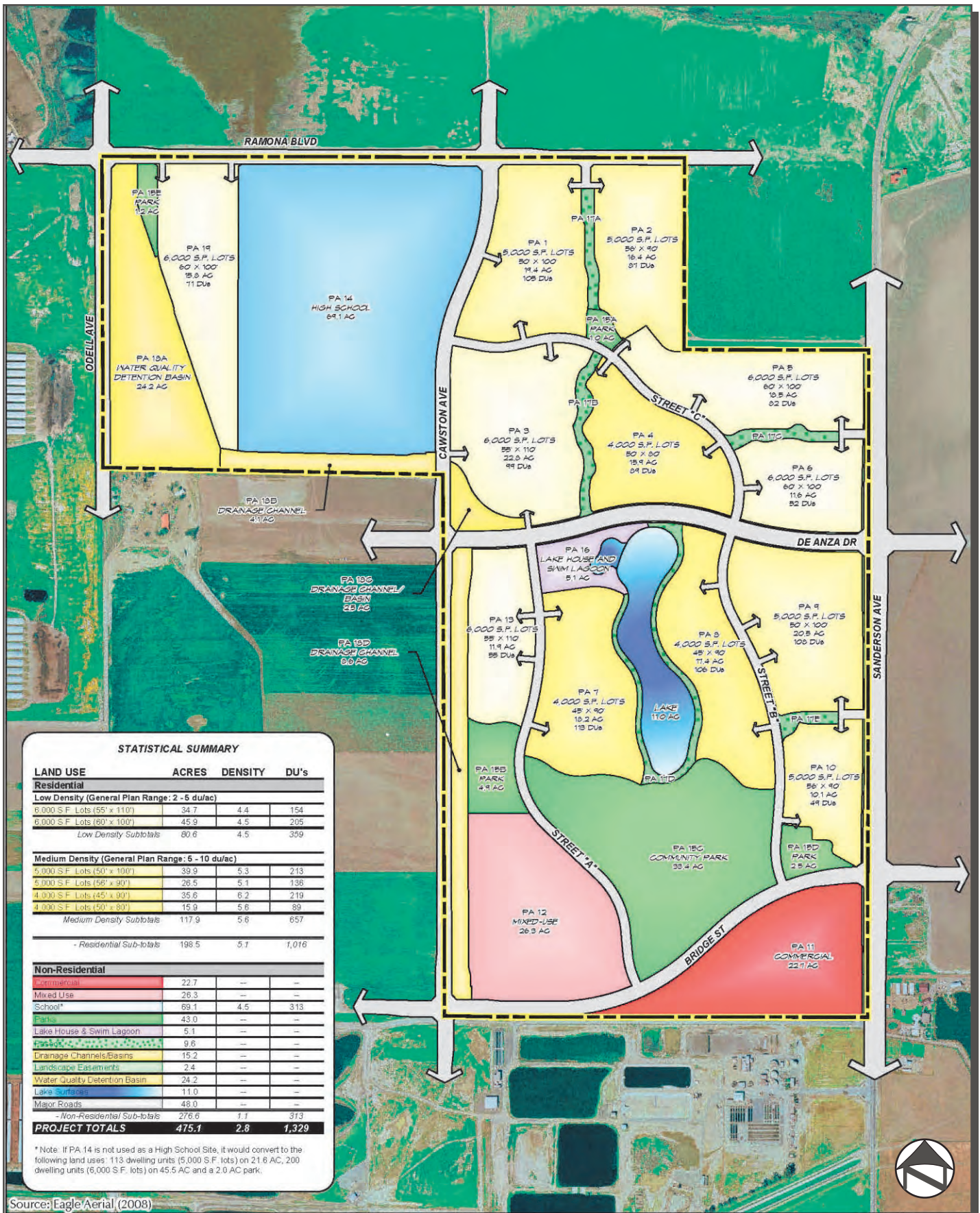
Residential land uses would consist of two General Plan density categories: Low Density Residential, LDR (2.1 to 5.0 dwelling units/acre (DU/AC)), and Medium Density Residential, MDR (5.1 to 10.0 DU/AC) (San Jacinto General Plan 2006). The LDR category will be built within PAs 3, 5, 6, 13, and 19 and will result in a maximum of 359 dwelling units on 80.6 acres. Each residential lot will be a minimum of 6,000 square feet, and overall density will be 4.5 dwelling units per acre. The MDR category will be built within PAs 1, 2, 4, 7, 8, 9, and 10 with a total of 349 residences having 5,000-square-foot minimum lot sizes and 308 residences having 4,000-square-foot minimum lot sizes. In the event that PA 14 is not used by the San Jacinto Unified School District for a proposed new high school, a portion of this area (45.5 acres) would be developed with 200 residential lots under the LDR designation, and the remaining portion

(23.6 acres) would be developed with 113 single-family lots under the MDR designation, including a 2 acre park site.

Table 3.0-1 Planned Land Uses

Land Use Type	Acres	Density (Dwelling Units/Acre)	Maximum Dwelling Units
Residential (overall)	198.5	5.1	1,016
Low Density			
6,000-square-foot lots	80.6	4.5	359
Medium Density			
5,000-square-foot lots	66.4	5.3	349
4,000-square-foot lots	51.5	6.0	308
Non Residential (overall)	276.6	1.1	313
Commercial	22.7	—	—
School	69.1	4.5	313*
Mixed-Use	26.3	—	—
Open Space			
Parks	43.0	—	—
Lake House/Swim Lagoon	5.1	—	—
Paseos	9.6	—	—
Drainage Channels/Basins	15.2	—	—
Landscape Easements	2.4	—	—
Water Quality Detention Basin	24.2	—	—
Lake Surface	11.0	—	—
Major Roads	48.0	—	—
Total	475.1	2.8	1,329

* If PA 14 is not used as a High School Site, it would convert to the following land uses: 113 dwelling units (5,000-square-foot lots) on 21.6 acres, 200 dwelling units (6,000-square-foot lots) on 45.5 acres and a 2.0 acre park.



STATISTICAL SUMMARY

LAND USE	ACRES	DENSITY	DU's
Residential			
Low Density (General Plan Range: 2 - 5 du/ac)			
6,000 S.F. Lots (55' x 110')	34.7	4.4	154
6,000 S.F. Lots (60' x 100')	45.9	4.5	205
<i>Low Density Sub-totals</i>	80.6	4.5	359
Medium Density (General Plan Range: 6 - 10 du/ac)			
5,000 S.F. Lots (50' x 100')	39.9	5.3	213
5,000 S.F. Lots (56' x 90')	26.5	5.1	136
4,000 S.F. Lots (45' x 90')	35.6	6.2	219
4,000 S.F. Lots (50' x 80')	15.9	5.6	89
<i>Medium Density Sub-totals</i>	117.9	5.6	657
<i>- Residential Sub-totals</i>	198.5	5.1	1,016
Non-Residential			
Commercial	22.7	--	--
Mixed Use	26.3	--	--
School*	69.1	4.5	313
Parks	43.0	--	--
Lake House & Swim Lagoon	5.1	--	--
Parks	9.6	--	--
Drainage Channels/Basins	15.2	--	--
Landscape Easements	2.4	--	--
Water Quality Detention Basin	24.2	--	--
Lake Surfaces	11.0	--	--
Major Roads	48.0	--	--
<i>- Non-Residential Sub-totals</i>	276.6	1.1	313
PROJECT TOTALS	475.1	2.8	1,329

* Note: If PA 14 is not used as a High School Site, it would convert to the following land uses: 113 dwelling units (5,000 S.F. lots) on 21.6 AC, 200 dwelling units (6,000 S.F. lots) on 45.5 AC and a 2.0 AC park.

Source: Eagle Aerial (2008)

SPECIFIC MAP SOURCE: T&B PLANNING CONSULTANTS, May 2009

Villages of San Jacinto EIR
Specific Plan Land Use Plan

FIGURE 3.0-4

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Table 3.0-2 Planned Land Uses by Planning Area

Land Use	Acres	Density (DU/AC)	Dwelling Units
Residential			
PA 1 – 5,000-square-foot lots (50' x 100') (Medium Density)	19.4	5.4	105
PA 2 – 5,000-square-foot lots (56' x 90') (Medium Density)	16.4	5.3	87
PA 3 – 6,000-square-foot lots (55' x 110') (Low Density)	22.8	4.3	99
PA 4 – 4,000-square-foot lots (50' x 80') (Medium Density)	15.9	5.6	89
PA 5 – 6,000-square-foot lots (60' x 100') (Low Density)	18.5	4.4	82
PA 6 – 6,000-square-foot lots (60' x 100') (Low Density)	11.6	4.5	52
PA 7 – 4,000-square-foot lots (45' x 90') (Medium Density)	18.2	6.2	113
PA 8 – 4,000-square-foot lots (45' x 90') (Medium Density)	17.4	6.1	106
PA 9 – 5,000-square-foot lots (50' x 100') (Medium Density)	20.5	5.3	108
PA 10 – 5,000-square-foot lots (56' x 90') (Medium Density)	10.1	4.9	49
PA 13 – 6,000-square-foot lots (55' x 110') (Low Density)	11.9	4.6	55
PA 19 – 6,000-square-foot lots (60' x 100') (Low Density)	15.8	4.5	71
<i>Residential Subtotal</i>	<i>198.5</i>	<i>5.1</i>	<i>1,016</i>
Non Residential			
PA 11 – Commercial	22.7	—	—
PA 12 – Mixed-Use	26.3	—	—
PA 14 – High School*	69.1	4.5	313*
PA 15A and 15E – Private Neighborhood Parks	2.2	—	—
PA 15B, 15C and 15D – Public Neighborhood and Community Parks	40.8	—	—
PA 16 – Beach Club & Swim Lagoon	5.1	—	—
PA 17A–17E – Paseos	9.6	—	—
PA 18A – Water Quality Detention Basin	24.2	—	—
PA 18B, 18C and 18D – Drainage Channels/Basin	15.2	—	—
Landscape Easements	2.4	—	—
Lake Surface	11.0	—	—
Major Roads	48.0	—	—
<i>Non-Residential Subtotal</i>	<i>276.6</i>	<i>—</i>	<i>313*</i>
Total	475.1	2.8	1,329

* If PA 14 is not used as a High School Site, it would convert to the following land uses: 113 dwelling units (5,000-square-foot lots) on 21.6 acres, 200 dwelling units (6,000-square-foot lots) on 45.5 acres and a 2.0-acre park.

Commercial

Commercial development would be focused in the southeast corner of the project site within PA 11. This development is intended to result in approximately 247,000 square feet of neighborhood retail commercial uses on 22.7 acres. This designation is intended to meet the provision for retail commercial land uses as set forth in the San Jacinto General Plan Land Use Element and to provide an accessible local shopping center for the proposed project and nearby communities

that allows for a wide range of businesses, including grocery store, drug store, cleaners, restaurants, fast food, and specialty stores. The Specific Plan for the project (T&B Planning Consultants 2009) includes Conceptual Design Guidelines and Development Standards for commercial development of this PA. Comprehensive Design Guidelines will need to be reviewed and approved by the City prior to development of the PA.

Mixed-Use

Mixed-use development will be provided within the 26.3-acre PA 12. This designation is intended to provide for a broad range of land uses, with the primary focus on municipal uses and other development, such as business and professional park uses, including dental and medical offices, real estate offices, and banks. This area could also provide accessory uses to the primary facilities, such as coffee shop, printers, and postal/shipping outlets. This designation provides for a maximum of 343,000 square feet of building area and will have a maximum height limit of 45 feet. Conceptual Design Guidelines for commercial uses are provided in the project Specific Plan, but Comprehensive Design Guidelines will need to be reviewed and approved by the City prior to development of the PA.

Schools

As noted above in *Table 3.0-2*, PA 14 is designated for a proposed high school by San Jacinto Unified School District (District). The 69.1-acre high school site would be located southwest of the future intersection of Cawston Avenue and Ramona Boulevard. Preliminary plans for the school include baseball and softball fields, a track/football stadium, gymnasium, performing arts facility and classroom space for up to 2,000 students. Final plans for the school would be processed separately from the Villages of San Jacinto Specific Plan through the District Board of Trustees and the California Division of the State Architect. If the San Jacinto Unified School District does not choose to construct a high school on this site, it will instead be used for residential uses. Under this scenario, PA 14 would be developed with 200 low-density residences (minimum 6,000-square-foot lots) and 113 medium-density residences (5,000-square-foot lots) along with a 2-acre park site.

Parks and Recreational Amenities

Following is a summary of the recreational amenities and park facilities planned for the proposed project. Further discussion of parks and recreation, including the requirement for provision of adequate parkland is contained in Section 5.12.4.

Public Parks

The proposed project includes three public parks totaling approximately 41 acres. The largest of the public parks is the 33.4-acre Community Park in Planning Area 15C north of Bridge Street in the southern portion of the proposed development. This park will provide soccer and baseball fields, concession area, as well as barbeque and picnic areas overlooking the proposed lake. Public parks in Planning Areas 15B and 15D provide just over seven acres of various active and passive recreational opportunities.

Private Parks

The two private parks in Planning Areas 15A and 15E will provide passive recreation for nearby residents such as tot lots, shade structures, pathways and picnic areas.

Lake House and Swim Lagoon

Other recreational amenities include a 5.1-acre Lake House Beach Club and Swim Lagoon within Planning Area 16. This will be a private facility for residents and will feature a Swim Lagoon with sandy beach, play island, lap pool, play pool, fire pits, open turf area and shade structures. The clubhouse will provide an exercise room, activity room, restroom/changing rooms and office space.

Lake

The 11-acre private lake will be located primarily between Planning Areas 7 and 8 and adjacent to the Swim Lagoon. It will feature a concrete trail surrounding the lake and connecting to the community park in PA 15C. No swimming or boating will be allowed on the lake, but it will provide recycled water for irrigation of common landscaping within the community.

Paseos

A total of 9.6 acres of landscaped paseos will serve as pedestrian linkages between land uses and will create landscaped buffer areas between Planning Areas. These paseos will be a minimum of 50 feet wide and have 10-foot-wide concrete trails.

Infrastructure

The *Villages of San Jacinto Specific Plan* (T&B Planning Consultants 2009) details a number of infrastructure plans that will be incorporated into project development. These include a Circulation Plan, Drainage Plan, and Water and Sewer Plans. In addition, a Lake Preliminary Design Report was prepared to address lake design and water quality management systems. These plans are summarized below and discussed in more detail in the relevant sections of this EIR.

Circulation Plan

Roadways would be located throughout the development and would provide access to and from as well as within the project. Sanderson Avenue and Odell Avenue would serve as primary access points for the project. Once constructed, Ramona Boulevard would provide connection at the north edge of the project site. Cawston Avenue would serve as the major north–south arterial through the project while De Anza Drive would serve as the major east–west arterial within the development, taking access from Sanderson Avenue and connecting to Cawston Avenue. Bridge Street will also provide east–west access at the southern end of the development from either Cawston Avenue or Sanderson Avenue. The internal roadway network will include three streets designed as Modified Local Streets (Streets A, B, C) that connect the various PAs. The network will also include standard Local Streets that will connect individual neighborhoods. Roadway classifications are in compliance with City of San Jacinto and County of Riverside Road Standards.

Water Plan

Water service will be provided to the project by EMWD and be extended into the project via new conveyance facilities consistent with the EMWD's Northwest San Jacinto Area Master Plan. Domestic water will be conveyed via a proposed 16-inch pipeline in Sanderson Avenue and 12-inch pipelines within De Anza Drive; Bridge Street, Ramona Boulevard; and Streets A, B, and C.

Recycled Water Service

Recycled water pipelines will be installed concurrently with domestic lines. Recycled water would be utilized to maintain the lake water level as well as common area irrigation needs throughout the proposed community. Recycled water will not be used for private landscaping such as front or back yards. Proposed 8-inch recycled water lines will be installed within internal project roadways. Initially, the recycled water system will be provided from domestic water sources within Sanderson Avenue and Ramona Boulevard, but, ultimately, a pumping facility will use stored recycled water in the lake to supply water for irrigation. A Water Supply Assessment was completed by EMWD. The developer will be required to prepare a Plan of Service in accordance with EMWD standards prior to final engineering and construction of all domestic and recycled water lines. This will ensure that pipe sizing and any additional infrastructure facilities are adequate to serve the project and are in conformance with EMWD's Master Plan.

Sewer Plan

The project site is within the EMWD service area for wastewater collection and treatment. There is an existing 8-inch force main along Sanderson Avenue which conveys flows into an existing treatment facility located just south of the project boundary. Proposed sewer facilities will range between 12 to 30 inches per the EMWD Master Plan. Streets A, B, and C will have 10-inch lines

that flow to a 15-inch line in Cawston Avenue, while an additional 15-inch line is planned for Odell Avenue. Both of the 15-inch lines will gravity flow toward a 30-inch line in Ramona Boulevard, which will then continue to gravity flow toward the existing EMWD treatment plant. A Plan of Service Study will be completed in accordance with EMWD standards prior to final engineering and construction of all sanitary sewer lines. This will ensure that pipe sizing and any additional infrastructure facilities are adequate to serve the project and are in conformance with EMWD's Master Plan.

Drainage Plan

The project site generally drains in a northwesterly direction toward the San Jacinto River, primarily in a sheet flow pattern. The northerly portion of the project site is within the 100-year floodplain. The drainage plan provides 100-year flood protection for the interim and ultimate conditions. The interim condition is based on the absence of the San Jacinto Master Drainage Plan (MDP) systems being in place, while the ultimate condition assumes all the MDP facilities are constructed and functional. The implementation of the San Jacinto MDP is based on the timing of the development of the surrounding area. As a result, the construction timeline for the proposed San Jacinto MDP drainage facilities is unknown. Consequently, the project incorporates a drainage plan that will not impact upstream and downstream property owners but will provide flood protection for the overall project site. The Drainage Plan will incorporate a vegetative channel and a detention/water quality basin, which are designated as Line V and Detention Basin V. These two facilities are the major backbone infrastructure that will collect the runoff that emanates from off-site and on-site areas. Line V and Detention Basin V have been designed to convey and control the interim flow rate and ultimate flow rate. The interim flow rate results in a runoff rate that exceeds the ultimate condition flow rate. The interim condition will require the construction of two interim culvert facilities and the reconstruction of an earthen roadway to eliminate ponding east of the DeAnza Drive and Sanderson Avenue intersection. These interim drainage facilities are required to control and convey the interim flow rates originating from the off-site area. Several storm drain laterals will provide flood protection for the on-site PAs. Further details of the Drainage Plan are contained in *Section 5.8 Water Quality and Hydrology*.

Lake Preliminary Design Report

This report discusses safety features for the proposed lake shoreline, water depth and temperature, treatment of runoff, and water quality management. The treatment process involves reduced concentration of dissolved pollutants, nutrients, and salts through flushing of the lake water volume by utilizing the lake as the irrigation supply source; reduction of nutrient concentrations from inflows, nitrogen and phosphorous, and prevention of algal blooms by using constructed gravel biofilter beds that utilize "biological filtration," and maintaining oxygen levels

through aeration promoting oxygen exchange to prevent anaerobic conditions, which allows natural processes to occur, such as denitrification for removal of nitrogen. The lake operation and maintenance program also includes routine debris removal, algae control, aquatic weed control, pump maintenance, and biofilter maintenance. These processes ensure continued aesthetic appeal and desirable water quality as well as control of vectors, such as mosquitoes and flies.

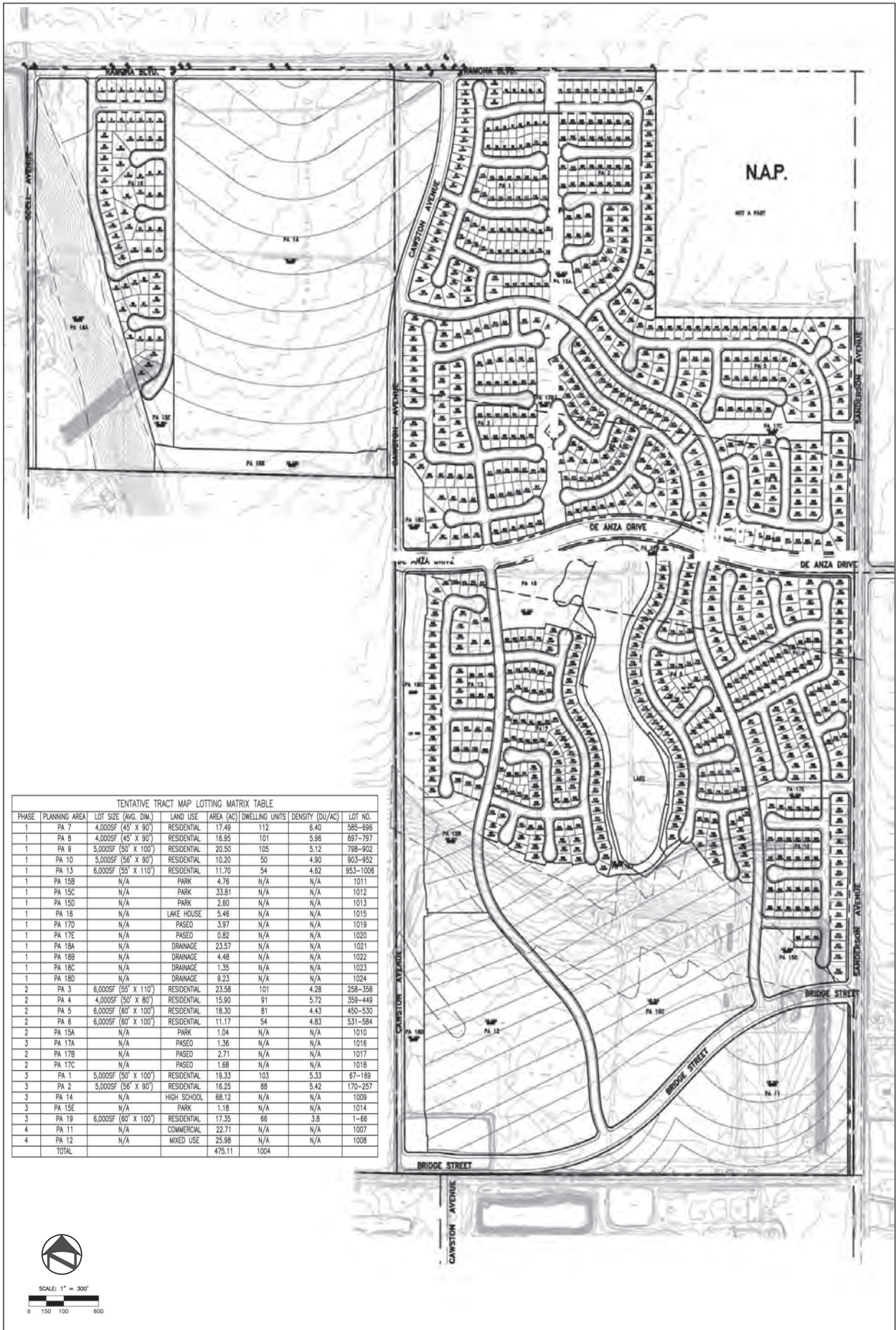
Tentative Map

A draft tentative map (TM 36188) has also been prepared for the project. *Figure 3.0-5, Tentative Tract Map*, shows individual residential lots, mixed use and commercial areas and accessory uses, including open space, lakes, and roadways. In summary, the Tentative Tract Map, which further defines the Specific Plan Land Use Plan (described above), would allow the following housing units and other land uses to be developed on the project site:

Unit Type Summary

- 6,000-square-foot lots: 359 units
- 5,000-square-foot lots: 349 units
- 4,000-square-foot lots: 308 units
- TOTAL: 1,016 units

- 69.1-acre high school site
- 22.7 acres of commercial uses
- 26.3 acres of mixed-use
- 5.1-acre lake house and Swim Lagoon
- 43.0 acres for parks
- 11.0 acres for lake surfaces
- 24.2 acres for water quality/detention basin facilities
- 15.2 acres for drainage channels
- 9.6 acres for paseos
- 48.0 acres for roadways



TENTATIVE TRACT MAP LOTTING MATRIX TABLE

PHASE	PLANNING AREA	LOT SIZE (AVG. DIM.)	LAND USE	AREA (AC)	DWELLING UNITS	DENSITY (DU/AC)	LOT NO.
1	PA 7	4,000SF (45' X 90')	RESIDENTIAL	17.49	112	6.40	585-696
1	PA 8	4,000SF (45' X 90')	RESIDENTIAL	16.85	101	5.96	697-797
1	PA 9	5,000SF (50' X 100')	RESIDENTIAL	20.50	105	5.12	798-902
1	PA 10	5,000SF (56' X 90')	RESIDENTIAL	10.20	50	4.90	903-952
1	PA 13	6,000SF (55' X 110')	RESIDENTIAL	11.70	54	4.62	953-1006
1	PA 15B	N/A	PARK	4.76	N/A	N/A	1011
1	PA 15C	N/A	PARK	33.81	N/A	N/A	1012
1	PA 15D	N/A	PARK	2.60	N/A	N/A	1013
1	PA 16	N/A	LAKE HOUSE	5.46	N/A	N/A	1015
1	PA 17D	N/A	PASEO	3.97	N/A	N/A	1019
1	PA 17E	N/A	PASEO	0.82	N/A	N/A	1020
1	PA 18A	N/A	DRAINAGE	23.57	N/A	N/A	1021
1	PA 18B	N/A	DRAINAGE	4.48	N/A	N/A	1022
1	PA 18C	N/A	DRAINAGE	1.35	N/A	N/A	1023
1	PA 18D	N/A	DRAINAGE	9.23	N/A	N/A	1024
2	PA 3	6,000SF (55' X 110')	RESIDENTIAL	23.58	101	4.28	258-358
2	PA 4	4,000SF (50' X 80')	RESIDENTIAL	15.90	91	5.72	359-449
2	PA 5	6,000SF (60' X 100')	RESIDENTIAL	18.30	81	4.43	450-530
2	PA 6	6,000SF (60' X 100')	RESIDENTIAL	11.17	54	4.83	531-584
2	PA 15A	N/A	PARK	1.04	N/A	N/A	1010
3	PA 17A	N/A	PASEO	1.36	N/A	N/A	1016
2	PA 17B	N/A	PASEO	2.71	N/A	N/A	1017
2	PA 17C	N/A	PASEO	1.68	N/A	N/A	1018
3	PA 1	5,000SF (50' X 100')	RESIDENTIAL	19.33	103	5.33	67-169
3	PA 2	5,000SF (56' X 90')	RESIDENTIAL	16.25	88	5.42	170-257
3	PA 14	N/A	HIGH SCHOOL	68.12	N/A	N/A	1009
3	PA 15E	N/A	PARK	1.18	N/A	N/A	1014
3	PA 19	6,000SF (60' X 100')	RESIDENTIAL	17.35	66	3.5	1-66
4	PA 11	N/A	COMMERCIAL	22.71	N/A	N/A	1007
4	PA 12	N/A	MIXED USE	25.98	N/A	N/A	1008
	TOTAL			475.11	1004		

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Phasing and Construction Planning

The project is designed to be developed in four phases over an approximate 9-year period in response to market demands and according to a logical and orderly extension of roadways, public utilities, and infrastructure. Development may occur more rapidly or more slowly, depending on the marketability of the community. Project Phasing is shown on *Figure 3.0-6, Conceptual Phasing Plan*, and detailed in *Table 3.0-3, Project Phasing Plan*. It should be noted that the public parks, the private lake, Lake House Beach Club and Swim Lagoon, drainage channels, and detention basins will be constructed as part of Phase I; and that the High School site (PA 14), may, if purchased by the school district, be developed earlier than indicated on the Conceptual Phasing Plan.

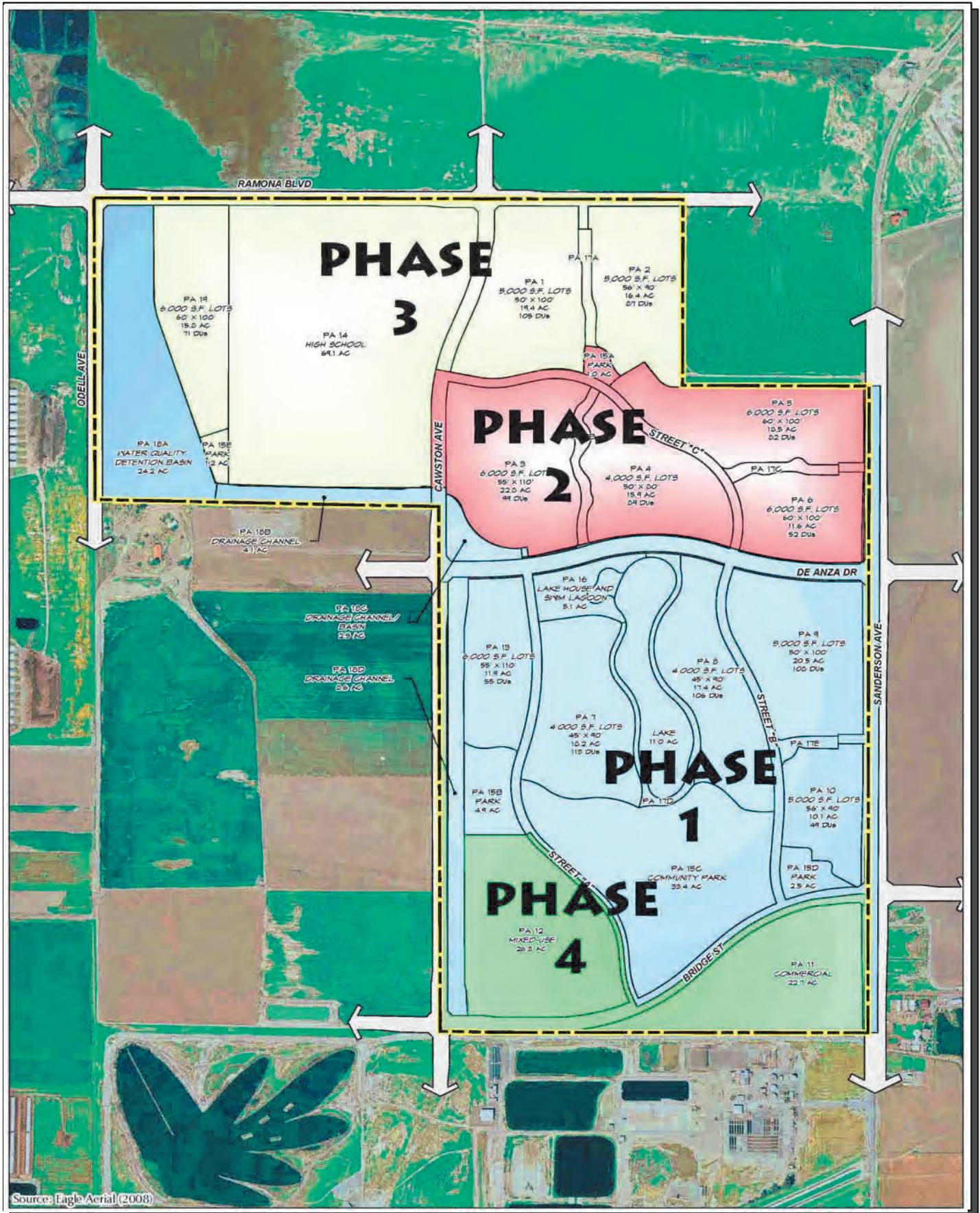
The project will be built out in four phases based on the absorption rate of the prior community phase. Each phase will entail fine grading (mass grading will be performed as part of Phase I), followed by installation of sewer, storm drain, and water infrastructure; installation of water crossings; installation of curb and gutter framework for the street system; paving; and construction of residences and commercial/mixed-use buildings. Phase I is anticipated to begin in the winter of 2011 and will last approximately 49 months. Phase I would include mass grading the entire site and will be finished upon completion of 431 residential units. Construction of Phase II will begin at roughly the time Phase I has sold out (estimated January 2016) and will take approximately 24 months to complete. Phase II will be finished upon completion of 322 residential units. Phase III will begin at roughly the time Phase II has sold out (estimated January 2018) and will take approximately 72 months to complete. Phase III will be finished upon completion of 263 residential units, and the high school (or 313 additional residential units if the high school is not developed on-site). Phase IV will begin at roughly the time Phase III has sold out (estimated January 2024) and will take approximately 120 months to complete. Phase IV will be finished upon completion of the project's commercial/mixed-use development. Completion of the project is estimated to be by December 2033.

**Table 3.0-3
Project Phasing Plan**

Land Use	Acres	Dwelling Units
Phase I		
PA 7 – 4,000-square-foot lots (45' x 90')	18.2	113
PA 8 – 4,000-square-foot lots (45' x 90')	17.4	106
PA 9 – 5,000-square-foot lots (50' x 100')	20.5	108
PA 10 – 5,000-square-foot lots (56' x 90')	10.1	49
PA 13 – 6,000-square-foot lots (55' x 110')	11.9	55
PA 15B, 15C, and 15D – Parks	40.8	—
PA 16 – Lake House and Swim Lagoon	5.1	—
PA 17 – Lake Trail Paseo	3.6	—
Lake Surface	11.0	—
PA 17E – Paseo	1.0	—
PA 18A – Water Quality/Detention Basin	24.2	—
PA 18B – Drainage Channel	4.1	—
PA 15C – Drainage Channel	2.5	—
PA 18D – Drainage Channel	8.6	—
Sanderson Landscape Easement	2.4	—
Circulation	20.6	—
Phase I Subtotal	202.0	431
Phase II		
PA 3 – 6,000-square-foot lots (55' x 110')	22.8	99
PA 4 – 4,000-square-foot lots (50' x 80')	15.9	89
PA 5 – 6,000-square-foot lots (60' x 100')	18.5	82
PA 6 – 6,000-square-foot lots (60' x 100')	11.6	52
PA 15A – Neighborhood Park	1.0	—
PA 17B – Paseo	2.0	—
PA 17C – Paseo	1.5	—
Circulation	6.5	—
Phase II Subtotal	79.8	322
Phase III		
PA 1 – 5,000-square-foot lots (50' x 100')	19.4	105
PA 2 – 5,000-square-foot lots (56' x 90')	16.4	87
PA 14 – High School*	69.1	313
PA 15E – Neighborhood Park	1.2	—
PA 17A – Paseo	1.5	—
PA 19 – 6,000-square-foot lots (60' x 100')	15.8	71
Circulation	10.3	—
Phase III Subtotal	133.7	576
Phase IV		
PA 11 – Commercial	22.7	—
PA 12 – Mixed-Use	26.3	—
Circulation	10.6	—
Phase IV Subtotal	59.6	0
TOTAL	475.1	1,329

* If PA 14 is not used as a High School Site, it would convert to the following land uses: 113 dwelling units (5,000-square-foot lots) on 21.6 acres, 200 dwelling units (6,000-square-foot lots) on 45.5 acres and a 2.0-acre park.

SOURCE: T&B Planning Consultants 2009



Source: Eagle Aerial (2008)



Villages of San Jacinto EIR
Conceptual Phasing Plan

FIGURE
3.0-6

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3.6 DISCRETIONARY ACTIONS

A list of discretionary actions known to be required and the agencies responsible for their approval are listed below; however, this EIR covers all federal, state, and local governmental approvals that may be needed to construct or implement the project, whether explicitly listed or not. All known Responsible and Trustee Agencies as defined by CEQA Guidelines 15381 and 15386 and a list of all subsequent actions anticipated within the scope of this EIR are listed.

In order to implement the project as described above, the City Council will need to take the following actions:

- EIR Certification
- Mitigation Monitoring and Reporting Program Adoption
- General Plan Amendment from LDR, MDR, High Density Residential (HDR), Open Space (OS), Park (P), and Community Commercial (CC) to Specific Plan (SP)
- Municipal Zoning Code Amendment from R-1, R-2 Planned Unit Development (PUD), R-3, and C-2 Zones to Specific Plan (SP)
- Specific Plan #1-04 Adoption
- Design Review Approval
- Tentative Tract Map No. 36188 Approval
- Development Agreement Adoption.

The following additional permits/approval may be required of other Responsible and/or Trustee Agencies that may be considered responsible agencies under CEQA. This EIR may be utilized by the following agencies during CEQA compliance for their specific permit issuance or discretionary action approval:

- Regional Water Quality Control Board: Clean Water Act Section 401 Water Quality Certification, Waste Discharge Requirement, and approval of the Storm Water Pollution Prevention Plan (SWPPP).
- Regional Water Quality Control Board: Official closure action and approval of reuse plan pertaining to historical hazardous materials located on site.
- Riverside County Department of Environmental Health: Official closure action and approval of reuse plan pertaining to historical hazardous materials located on site.
- San Jacinto Unified School District: Construction and operational approval for school site.
- California Department of Fish and Game: Section 1600 Streambed Alteration Agreement.
- EMWD: Water Availability Assessment pursuant to SB 610.

3.7 INTERAGENCY CONSULTATIONS

The project will or has required the City to engage in the following interagency consultation processes:

Senate Bill 18

Senate Bill 18 requires a City to notify any Native American tribe or group who has previously expressed interest in the project study area or who has historically inhabited the project area to determine if they view the project site as a significant point of ancestral heritage. This consultation is required when the City is considering a General Plan Amendment such as proposed for this project. The City conducted consultation per Senate Bill 18 during the early planning process for the project (2005). Given the elapsed time, the City will contact all applicable Native American groups during late summer/fall 2009 to determine if they have any further comments regarding the proposed project.

Federal Clean Water Act/California Fish and Game Code

Pursuant to Section 401 of the Federal Clean Water Act and Section 1600 of the California Fish and Game Code, any modification to surface waters must first obtain a permit from the Regional Water Quality Control Board and California Department of Fish and Game, respectively. The applicant will be required to obtain permits to alter existing onsite water and/or wetlands prior to grading activities.

Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP)

The City is a signatory to the Western Riverside County MSHCP and therefore has the obligation to implement the MSHCP in accordance with all applicable protocols. The City reviewed the project biological resource studies to determine consistency with reserve design and other plan requirements. Although the project is not located within MSHCP “criteria cells,” the City contacted the Western Riverside County Regional Conservation Authority, the joint powers authority tasked with overall MSHCP implementation, to confirm that the project is not located within criteria cells and therefore submittal of the project for Joint Project Review was not necessary. The Western Riverside County Regional Conservation Authority confirmed that the project was not located within a criteria cell in a letter dated November 17, 2008.

Storm Water Pollution Prevention Plan

Pursuant to the National Pollution Discharge Elimination System, any project that would disturb soils during construction is required to prepare a Storm Water Pollution Prevention Plan. This

Plan shall be approved by the Regional Water Quality Control Board. The applicant will prepare and process this Plan prior to project grading.

Hazardous Material Closure/Reuse

In order to obtain permission for reuse of a site that formerly supported hazardous materials or substances (ie, such as methane or the former leaking underground storage tank), the Regional Water Quality Control Board and the Riverside County Department of Environmental Health must approve a closure and reuse plan prior to site disturbance. The applicant will prepare such a plan and process it through both agencies.

Water Supply Assessment

For all projects that would result in construction of more than 500 dwelling units, local municipalities must consult with the applicable water agency to determine whether adequate water supplies exist to serve the proposed project. Because the project proposes up to 1,329 dwelling units, the 500 unit maximum would be exceeded, therefore this interagency coordination requirement would be triggered. The City received a Water Supply Assessment from Eastern Municipal Water District on December 15, 2004. The City also received confirmation that the December 15, 2004 Water Supply Assessment was still valid in a May 11, 2009 letter.

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SECTION 4.0 ENVIRONMENTAL SETTING

In accordance with Section 15125 of the CEQA Guidelines, the general environmental setting for the project area is provided in this section. More detailed descriptions of the setting specifically pertaining to each environmental issue are provided at the beginning of each impact issue area addressed in *Section 5.0*.

4.1 PHYSICAL SETTING

The site is generally flat and is located on the alluvial plain of the San Jacinto River. The site elevation above sea level ranges from 1,455 feet along the northern edge to 1,490 feet in the southeastern corner. The southeastern corner of the site is a former cattle feed lot with several remaining shade structures. The remainder of the land consists primarily of vacant former agricultural land. Vegetation on site consists of weedy invasive species that have accumulated since the majority of agricultural production was discontinued. There are scattered sod fields in the northern portions of the property, which is the site of the only remaining agricultural operation. Several unnamed, unimproved dirt roadways traverse the site and are associated with former and current agricultural operations. Irrigation canals run along the edges of fields in support of current or former sod farming activities. A detention basin is located along the north-central edge of the project site. There is one abandoned residence and former storage shed located in the east central portion of the site (see *Figure 5.13-1*).

The San Jacinto River is the dominant landform in the project area. The river, which is located less than 1 mile from the project site, is contained within a broad valley formation that is characterized by flat, alluvial terraces surrounded by stark mountains. The project is surrounded by existing agricultural operations on three sides, with the San Jacinto Valley Regional Water Reclamation Facility along the southern boundary of the site. The San Jacinto River area comprises a flat, perennial river characterized by wetland vegetation within the immediate channel and then drier habitats, such as grassland and coastal sage scrub, further from the low flow area. Due to its flat nature and alluvial setting, much of the San Jacinto River floodplain has been utilized for active agriculture for over 100 years.

As discussed previously, agricultural operations on the site have mostly ceased to be active with the exception of some sod farming in the northwest portion of the site. However, the project site contains state-designated Prime Farmland, Unique Farmland, and Farmland of Statewide Importance. *Section 5.3, Agricultural Resources*, describes the impact of converting these designated lands in greater detail. There are no unique aesthetic or visual resources on site (see *Section 5.2, Landform Alteration and Aesthetics*, for additional clarification regarding on-site visual resources). Although the site is highly disturbed from a biological resource perspective,

sensitive and unique wildlife species exist on site (*Section 5.4, Biological Resources*, provides a greater description of on-site biological resources). The project site does not contain any unique cultural resources (*Section 5.5, Cultural Resources*, provides a greater description of on-site cultural resources). The project site contains two fault areas on site (see *Section 5.6, Geology and Soils*, for further discussion of on-site geotechnical resources). The site does not contain any natural hydrologic features; however, it is characterized by the on-site irrigation canals and detention basins. The project site is located near the San Jacinto River; the river's 100-year floodplain traverses part of the project site (see *Section 5.8, Water Quality and Hydrology*, for further discussion on the project's on-site hydrologic features).

On-site infrastructure includes dirt driveways/roadways, a septic system, well water service, and constructed agricultural detention basins to assist with on-site drainage. Currently, public utilities, including electric, gas, and phone service, are located on site.

4.2 APPLICABLE LAND USE PLANS

Section 15125 (d) of the CEQA Guidelines requires that a discussion of the project's relationship to the applicable general plan and relevant regional plans be provided. The consistency analysis for the proposed project with applicable plans, policies, and regulations is provided in *Section 5.1, Land Use, Planning, and Zoning*, of this EIR. The following is a list of plans, policies, and regulations that are applicable to the proposed project:

- City of San Jacinto General Plan
- City of San Jacinto General Plan Update
- City of San Jacinto Municipal Zoning Code
- Western Riverside County Multiple Species Habitat Conservation Plan
- South Coast Air Pollution Control District Regional Air Quality Strategies
- Southern California Association of Government's Regional Comprehensive Plan.

SECTION 5.0 ENVIRONMENTAL ANALYSIS

5.1 LAND USE, PLANNING, AND ZONING

5.1.1 Introduction and Methodology

This section describes the planned land uses associated with the proposed Villages of San Jacinto Specific Plan and Tentative Map and discusses potential project impacts to land use, planning, and zoning that would occur as a result of project implementation. The following discussion includes a description of existing land uses surrounding the project site and provides an analysis of the proposed development's compatibility with planned and existing surrounding land uses. The discussion also evaluates the consistency of the proposed project with all relevant plans and policies, including those policies and development standards of the City's General Plan, Zoning Ordinance, and the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP).

The character of existing land use was determined by field survey, review of aerial photography of the project site and surrounding area, and review of existing documentation and site descriptions. Issues of land use compatibility were analyzed in the context of existing and planned land uses, policies, and planning programs. In addition, issues of land use compatibility have been analyzed in the context of physical environmental factors, such as agriculture, noise, air quality, aesthetics, and traffic, discussed in detail in the respective sections of this EIR.

Applicable City and regional planning documents were reviewed to identify all applicable plans, policies, and development standards to evaluate potential project impacts to existing planning programs. A consistency analysis was conducted for each applicable policy identified and mitigation measures have been provided to address potential project inconsistencies with relevant plans and policies.

5.1.2 Existing Conditions

Existing Land Uses

The 475.1-acre project site is located in the northwest portion of the City of San Jacinto in an area consisting primarily of agricultural uses. The southeastern corner of the site is a former cattle feed lot with several remaining shade structures. The remainder of the land consists primarily of vacant former agricultural land. Vegetation on site consists of weedy invasive species that have accumulated since the majority of agricultural production was discontinued. There are scattered sod fields in the northern portions of the property, which entail the only remaining agricultural operations.

As illustrated in *Figure 5.1-1, Existing Land Uses*, the project site is located in a rural area within approximately 1.25 miles south of the San Jacinto River. The north property boundary of the project site is generally bound by the proposed road alignment for the Ramona Boulevard extension. Beyond this proposed road extension, land uses north of the site consist primarily of cultivated agricultural use in addition to duck ponds, the Colorado River Aqueduct, and the Ramona Expressway. Agricultural land uses occupy most areas west of the of the project site and include cultivated lands and cattle operations. A municipal wastewater treatment plant is located directly south of the project site and the San Jacinto Reservoir is located southeast of the property. The east side of the project site is generally bound by North Sanderson Avenue. Immediately east of North Sanderson Avenue, land uses consist of agricultural cultivation and low density residential use. Land use patterns begin to transition to urban-related uses continuing east-southeast of the project area toward downtown San Jacinto located southeast of the project site.

The project site is accessible directly from North Sanderson Avenue or indirectly via various agricultural roads taking access from the Ramona Expressway, Cottonwood Avenue, and Warren Road.

According to the Tentative Map/New Development Map accessed on the City's website (City of San Jacinto 2005), a number of new residential and commercial development projects have been approved or are in the City review process within the City including the area surrounding the project site. *Figure 5.1-2, Surrounding Projects*, depicts surrounding projects within the San Jacinto area at the time of EIR publication. Details of these projects can be found in *Table 6-1, Cumulative Projects List*, in *Section 6.0, Cumulative Impacts*.

Land Use Plans and Policies

City of San Jacinto General Plan

The City of San Jacinto General Plan identifies community goals and planning issues for future growth of the City and establishes goals and policies to provide a comprehensive basis for implementation of plans and programs to achieve community goals. The General Plan contains seven individual Elements: Land Use, Housing, Circulation, Natural Resources Management, Noise, Public Safety and Community Services and Facilities. Existing applicable land use designations and policies are addressed in the policy consistency analysis for the proposed project. The most recent General Plan was adopted on May 4, 2006, and the latest General Plan Land Use Map was approved in February 2009.

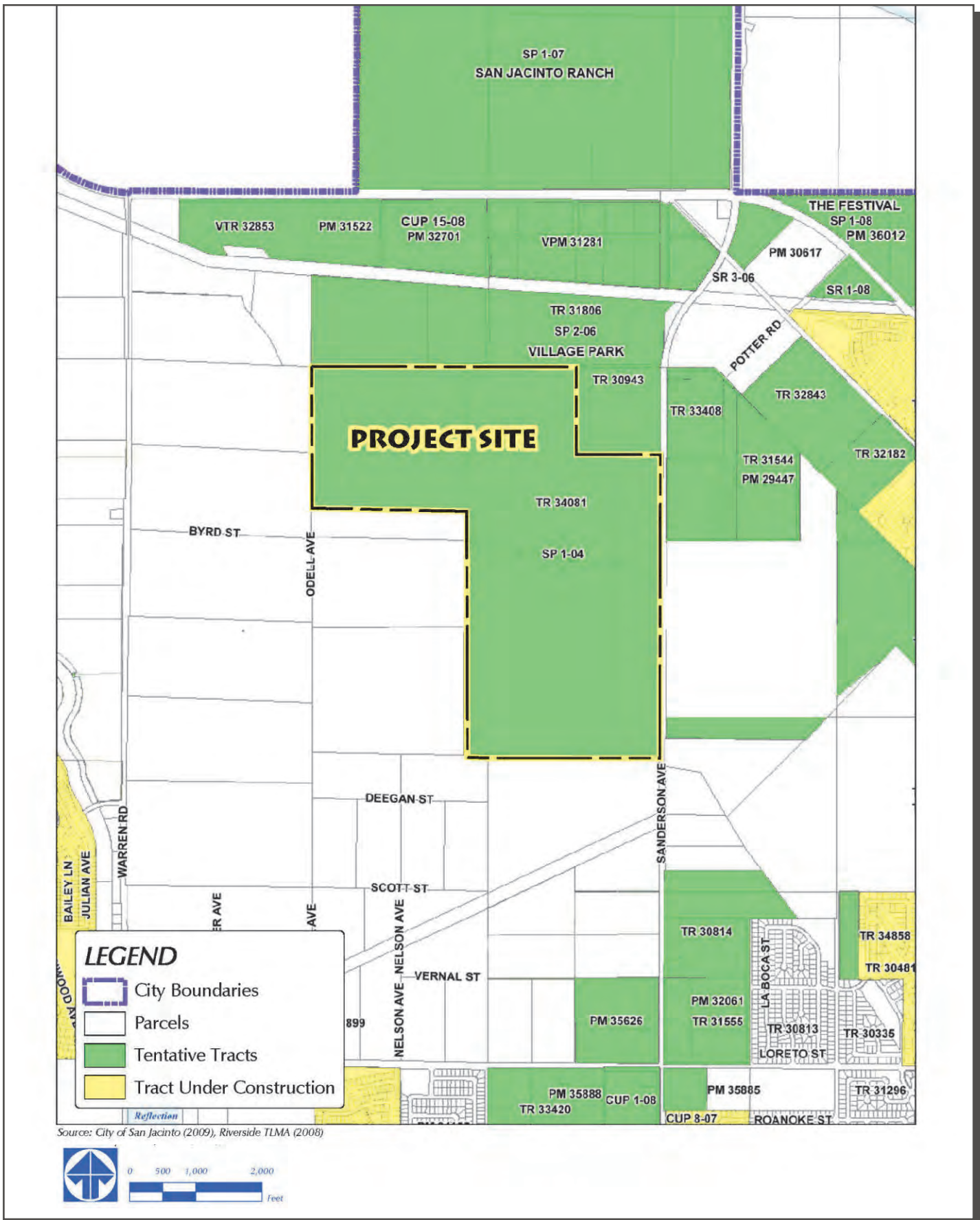


Villages of San Jacinto EIR
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Villages of San Jacinto EIR
 Surrounding Projects

FIGURE
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Figure 5.1-3, *General Plan and Specific Plan Comparison*, shows that the General Plan designations on the project site have a mix of land uses, which include Community Commercial (CC), Open Space Recreation (OS), Low Density Residential (LDR), and Medium Density Residential (MDR).

As shown on Figure 5.1-3, the easternmost portion of the site contains approximately 54.4 acres of the CC land use designation, which typically allows for development of a broad range of service and retail commercial activities at various densities. The central and western portions of the site contain about 44.7 acres of the Open Space land use designation, which is intended to maintain general open space areas for purposes of conservation of natural and scenic resources and protection of public property from natural hazards. Limited residential use is permitted in areas designated as Open Space at a maximum density of 1 unit per 40 acres and limited park and recreation uses are permitted at a maximum Floor Area Ratio (FAR) of 0.10:1.

The remaining portion of the site is designated LDR (136.5 acres) and MDR (239.5 acres). The northwest portion of the site is predominantly designated as LDR, which allows for detached single-family residential development at a maximum density of 5 units per acre. The MDR land use designation exists on approximately half of the site and permits single-family attached and detached units, duplexes, triplexes, fourplexes, townhouses, condominiums, and mobile home parks at a maximum density of 10 units per acre. Table 5.1-1, *General Plan and Specific Plan Comparison*, presents a comparison of acreage and dwelling units of the proposed Specific Plan and existing General Plan designations.

**Table 5.1-1
General Plan and Specific Plan Comparison**

Land Use	General plan			Specific Plan		
	Acres	Density	Max. DU	Acres	Density	Max. DU
<i>Residential</i>						
Residential Low Density	136.5	2.1-5.0 du/ac	682	80.6	4.5 du/ac	359
Residential Medium Density	239.5	5.1-10.0 du/ac	2395	117.9	5.3-6.0 du/ac	657
Residential Subtotal	376	—	3,077	198.5	—	1,016
<i>Non-Residential</i>						
Commercial	54.4	—	—	22.7	—	—
Mixed Use	—	—	—	26.3	—	—
School	—	—	—	69.1	—	313*
Parks	—	—	—	43.0	—	—
Open Space	44.7	—	—	67.5	—	—
Non-Residential Subtotal	99.1	—	—	276.6	—	313
Total	475.1	—	3,077	475.1	—	1,329

City of San Jacinto Zoning Ordinance

The Zoning Ordinance of the City of San Jacinto contains site-specific zoning designations and associated development standards that serve to implement the goals and policies of the General Plan.

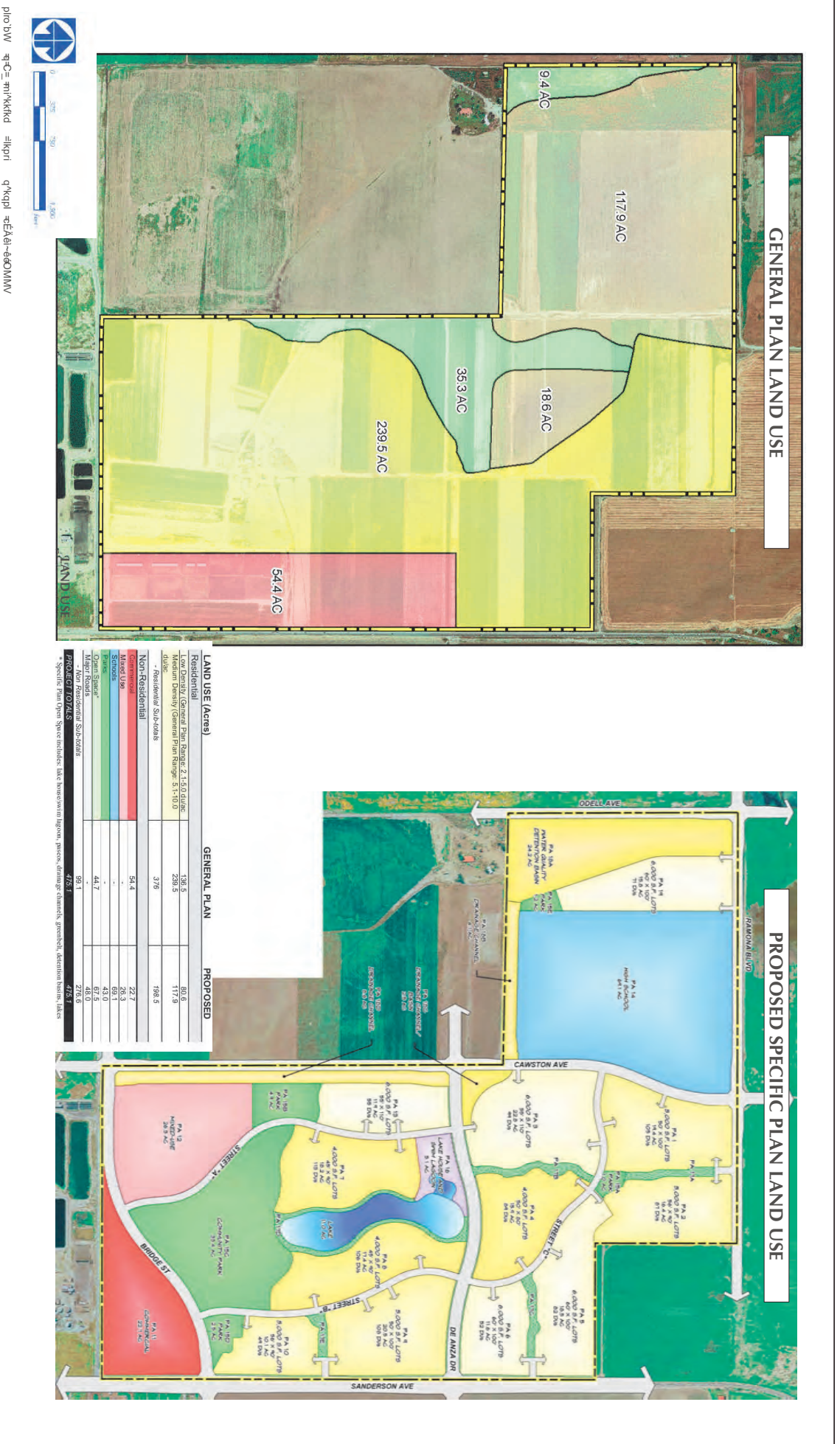
As shown on *Figure 5.1-4 Zoning and Specific Plan Comparison*, the project site is currently zoned One Family Zone (R-1), Two Family Zone -Planned Unit Development Overlay (R-2 PUD), Multiple Family Zone (R-3), and General Commercial Zone (C-2). The distribution of zoning designations on the site generally corresponds with the land use designation with the southeast corner of the site zoned as C-2 for general commercial uses, most of the northwest portion of the site zoned R-1 for low density residential development, and the majority of the site zoned R-2 for medium density residential development. The main difference between the current zoning and proposed Specific Plan is that rather than high density residential as designated in the southwest corner of the site, the project will provide mixed use and park development in that area.

City of San Jacinto Redevelopment Plan

The City of San Jacinto and Soboba Springs Redevelopment Plans and corresponding 5-year implementation plans address issues related to eliminating blighted areas in designated redevelopment project areas. The Redevelopment Plans address a total of 27 project areas located primarily in the urbanized eastern portion of the City. Due to the location of the project area in the more rural western portion of the City, plans and policies associated with the Redevelopment Plans are not applicable to the proposed project.

Transportation Uniform Mitigation Fee 10-Year Strategic Plan (TUMF)

The Western Riverside Council of Governments (WRCOG) is a council comprising members that represent 15 local jurisdictions in western Riverside County, including the City of San Jacinto. The WRCOG functions to facilitate collective examination by the various representative jurisdictions of issues that are regional in nature such as air quality and traffic. In June 2004, the WRCOG adopted the Transportation Uniform Mitigation Fee (TUMF) 10-Year Strategic Plan (TUMF) and Transportation Improvement Program Development Guidelines.

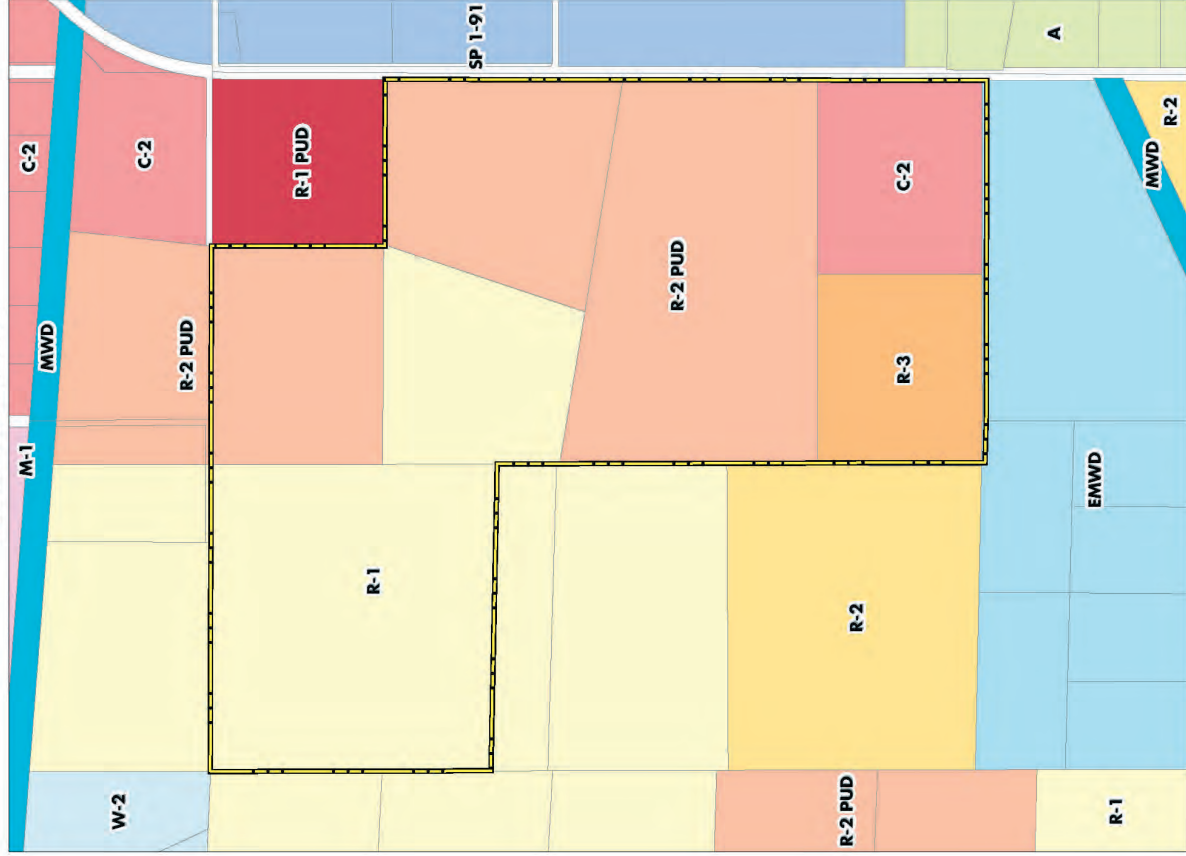


Villages of San Jacinto EIR
 General Plan Comparison – Current Update General Plan vs. Proposed Specific Plan Land Use

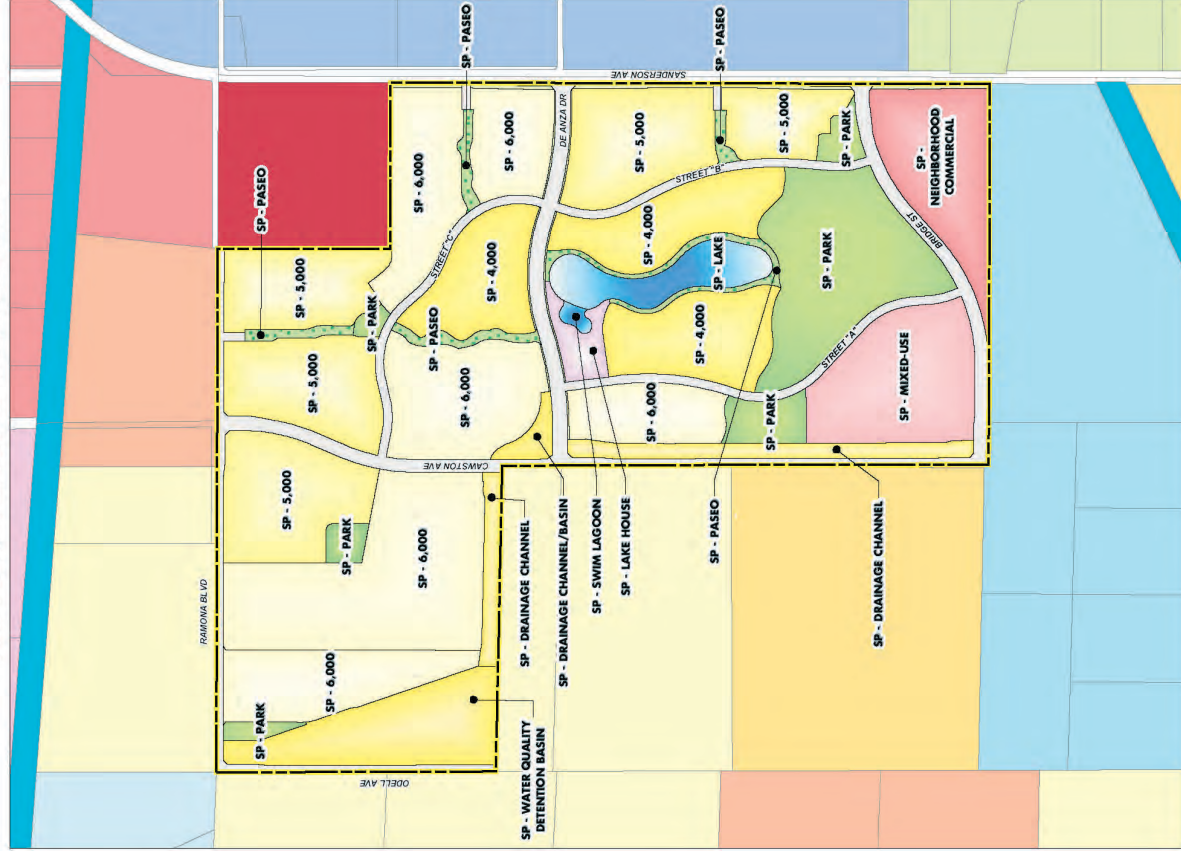
FIGURE
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EXISTING ZONING



PROPOSED SPECIFIC PLAN ZONING



Source: T&B PLANNING CONSULTANTS, July 2009

FIGURE 5.1-4

Villages of San Jacinto EIR
Zoning Comparison - Existing Zoning vs. Proposed Specific Plan Zoning

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The purpose of the TUMF program is to establish a comprehensive funding source to mitigate the cumulative regional transportation impacts of new development on regional arterial highways (Parsons Brinckerhoff Quade & Douglas, Inc, June 2004). The TUMF program has five primary goals that are articulated as a basis for developing specific regional project priorities and selection criteria. These goals are summarized as follows:

- Sustain Mobility – Mitigate the transportation system impacts of new development
- System Continuity – Enhance the continuity of the regional arterial highway system
- Project Development – Encourage systematic project development and provide flexibility to advance TUMF projects promptly through completion
- Leverage Funds – Secure additional matching funds for TUMF system improvements
- Regional Benefit – Ensure TUMF program revenues are distributed to maximize mitigation of new development impacts.

The TUMF program is intended to address cumulative traffic impacts of new development to the region; therefore, TUMF program funded improvements are focused primarily on regional arterial highways. New development in western Riverside County places additional demand on the regional transportation system to provide safe and convenient access for new residents and employees. The additional demand on the transportation facilities reduces mobility absent adequately and timely funded infrastructure improvements constructed to meet growing demands. As such, the WRCOG has developed and implemented the TUMF program which requires new development to contribute revenues to partially fund improvements that will mitigate the transportation impacts of new developments. TUMF investments are then focused on those regional facilities most impacted by new development.

Western Riverside County Multiple Species Habitat Conservation Plan

The Western Riverside County MSHCP is a comprehensive, long-term habitat conservation program which addresses the needs of a variety of biological resources. The MSHCP provides for the conservation of approximately 160 species and covers approximately 1.25 million acres of land in Riverside County which is experiencing rapid urbanization. The primary goal of the MSHCP is to develop and manage sustainable preserve areas within existing and expanding urban areas. The preserve areas and management efforts contained in the final MSHCP will affect land use planning in the entire City of San Jacinto area.

Southern California Association of Governments Growth Management Plan

The Southern California Association of Governments (SCAG) Growth Management Plan contains recommendations for methods to direct development and build-out of the region in

ways to minimize traffic congestion and protect environmental resources, including efforts to balance land uses, particularly jobs and housing. Goals of the SCAG Management Plan are reflected in the City's General Plan and individual plan elements.

South Coast Air Quality Management Plan

The South Coast Air Quality Management District (SCAQMD) Governing Board adopted the 2003 Air Quality Management Plan (AQMP) on August 1, 2003. The 2003 AQMP updates the attainment demonstration for the federal standards for ozone and particulate matter (PM₁₀); replaces the 1997 attainment demonstration for the federal carbon monoxide (CO) standard, provides a basis for a maintenance plan for CO for the future; and updates the maintenance plan for the federal nitrogen dioxide (NO₂) standard that the SCAB has met since 1992.

The South Coast AQMP includes a number of policies and measures to achieve federal and state standards for healthful air quality in the region. The City's General Plan strives to comply with the AQMP by planning land uses in relation to circulation systems, promoting commercial and industrial land uses with convenient access to transportation corridors, and encouraging a balance of land uses that facilitates a complimentary association between jobs and housing.

5.1.3 Significance Criteria

Based on the criteria identified in Appendix G of the CEQA Guidelines, the proposed project would have a significant impact on land use, planning and zoning if it:

1. Physically divides an established community.
2. Conflicts with any applicable plan, policy or regulation of an agency with jurisdiction over the project (including, but not limited to, the general plan, specific plan, local coastal program, zoning ordinance, etc.) adopted for the purpose of avoiding or mitigating an environmental effect.
3. Conflicts with any applicable habitat conservation plan or natural community conservation plan.
4. Introduces a land use that is incompatible with existing or proposed surrounding land uses.

5.1.4 Impacts

Would the project physically divide an established community?

As described in detail in *Section 3.0, Project Description*, the proposed project would develop commercial, residential, recreation and school facility land uses in the Specific Plan project area. *Table 3-1* illustrates the total acreage committed to each proposed land use.

The City's General Plan Land Use Map and Zoning Ordinance generally designate the project site and adjacent surrounding land area for future residential and commercial development and, as such, a variety of residential/commercial developments have been approved in the vicinity or are in the City review process. According to the City's Tentative Map/New Development Map illustrating various development projects recently approved or pending City review, a number of new residential and commercial development projects have been approved, or are in the City review process, in the area surrounding the project site.

The project site's location in an existing rural area surrounded by land that currently supports agricultural uses is likely to result in a physical division of a relative contiguous rural area and associated agricultural community. That said, due to existing residential and commercial land use and zoning designations of the subject site and adjacent land, and the apparent pattern of pending residential and commercial development proposals in the vicinity of the project site, it is anticipated that the project area will experience a pattern of rural agricultural land use conversion to urban-type uses which would ultimately alleviate potential land use conflicts between existing agricultural uses and planned residential development. Therefore, no significant impacts related to the division of an established community would occur.

Would the project conflict with any applicable plan, policy or regulation of an agency with jurisdiction over the project (including, but not limited to, the general plan, specific plan, local coastal program, zoning ordinance, etc.) adopted for the purpose of avoiding or mitigating an environmental effect?

Land Use Plans and Policies

City of San Jacinto General Plan

The City requires that a Specific Plan be developed for all projects involving 100 acres or more. Government Code Section 65450 states that a planning agency may "prepare specific plans for the systematic implementation of the general plan for all or part of the area covered by the general plan." The project, as proposed, will require an amendment to the General Plan Land Use Map to develop a Specific Plan and modify the land use designations of the project site to remove the HDR designation from the subject property and to reconfigure the existing CC, OS,

LDR, and MDR land use designations, and school site, consistent with the distribution of the land uses for the planned development of the proposed Specific Plan. The proposed Specific Plan is intended to incorporate and implement the comprehensive goals and policies of the City's General Plan for the more detailed development plan of the Villages of San Jacinto. The project land use scenario is generally consistent with the latest General Plan Update Land Use Plan. Therefore, the potential inconsistency with the existing General Plan Land Use Map is considered less than significant from a Land Use Plan Map perspective.

Table 5.1-2, General Plan Policy Consistency Analysis, identifies the City's General Plan policies that are applicable to the proposed Specific Plan and development project. For each listed policy, *Table 5.1-2* includes a discussion of potential project consistency/inconsistency with the policy to determine if the proposed Villages of San Jacinto Specific Plan would conflict with the policy and thereby result in an environmental impact. Environmental issues raised in the policy consistency analysis are also addressed in other sections of this EIR and are referenced where relevant.

**Table 5.1-2
General Plan Policy Consistency Analysis**

Policy	Project Consistency
<p>Land Use Element: The Land Use Element is a guide to land use planning within the City of San Jacinto and affects many of the issues addressed in the other General Plan elements. The Land Use Element identifies the type and location of future land uses within the City. The specific land uses and their location within the community in turn affect the remaining General Plan elements. For example, the location and type of land uses outlined in the Land Use Element affect the circulation system that is identified in the Circulation Element, and the allowable density of residential land identified in the Land Use Element affects the Housing Element policies. The land uses identified in the Land Use Element also reflect the community's goals for its future form and character.</p>	
<p>Land Use Policy Goal: Balance of Land Uses – <i>Develop a balanced land use pattern that meets community needs for residential, commercial, industrial, public, and recreational uses.</i></p>	
<p>LU Policy 1.1: Promote a land use composition in San Jacinto that provides a balance or surplus between the generation of public revenues and the cost of providing community services and facilities.</p>	<p>The community provides for a variety of public facilities, including educational, municipal, and recreational land uses, as well as residential land uses. The community also designates approximately 22.7 acres for commercial land uses and 26.3 acres of mixed-use land uses. It is anticipated that these mixed-use and commercial land uses will generate additional revenue streams for the City, including sales tax. In addition, the project will be required to contribute development impact fees to cover its "fair share" cost of providing public services and facilities to the site, including fire protection, police protection, and libraries. As such, the balanced land uses provided by THE VILLAGES OF SAN JACINTO will contribute to public revenues and the project is therefore consistent with, and will result in the implementation of, this General Plan policy.</p>
<p>LU Policy 1.2: Create housing opportunities that match employment opportunities within the community.</p>	<p>THE VILLAGES OF SAN JACINTO Specific Plan establishes a high quality, master-planned community that provides for a wide range of residential home product types on lot sizes ranging from 4,000, 5,000, to 6,000 square feet. This variety of lot sizes will result in home sizes designed to appeal to a wide range of potential residents and available in a range of prices.</p>

Table 5.1-2 (Continued)

Policy	Project Consistency
	Furthermore, THE VILLAGES OF SAN JACINTO combines housing, employment, and retail activities on one site. The community contains a maximum of 1,329 residential units, 22.7 acres of commercial land uses, and 26.3 acres of mixed-use land uses (including commercial, office, retail and municipal uses). This balance of land uses within the community contributes towards a greater balance between jobs and housing within the City. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
LU Policy 1.4: Provide public/institutional land use designations and development standards that encourage the location and operation of adequate public facilities to serve the community.	THE VILLAGES OF SAN JACINTO provides a 69.1-acre site for use as a High School campus by the San Jacinto Unified School District in Planning Area 14, 40.8 acres of public parks, and the provision of 26.3 acres of mixed-use land uses (which may include public, municipal, and educational uses). Furthermore, this Specific Plan provides for the development of adequate infrastructure (circulation, water, sewer, etc.) necessary to ensure successful implementation of these public/institutional land uses. Additionally, this Specific Plan provides for amenities, such as landscaping and monumentation, and includes development standards and design guidelines to ensure a high quality of development. Maintenance responsibilities and financing mechanisms also are identified in this Specific Plan to ensure successful long-term operation of these public/institutional land uses. THE VILLAGES OF SAN JACINTO is therefore consistent with these policies.
LU Policy 1.6: Maintain land use designations and regulations that permit the successful development and operation of public and private educational facilities at appropriate locations within the planning area.	
LU Policy 1.5: Plan and designate adequate open space and parkland to meet the community's parks, open space, and recreational needs.	The community's maximum potential build-out of 1,329 homes would result in approximately 4,000 community residents (at a rate of 3.01 persons per household). The site is planned for a neighborhood park by the General Plan (see Figure CSF-3, Parks and Public Facilities) and per the requirements of the Quimby Act, the community would require approximately 20 acres of active parkland. THE VILLAGES OF SAN JACINTO Specific Plan exceeds this requirement by providing active public park facilities totaling approximately 40.8 acres (Planning Area 15B, 15C, and 15D), in addition to the private recreation facilities and paseos that are provided on 68.7 acres. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
LU Policy 1.3: Attract light industry and other compatible employment generating businesses.	THE VILLAGES OF SAN JACINTO includes opportunities for a variety of commercial activities that would generate employment and sales tax revenue. Specifically, 22.7 acres of commercial land uses are located within Planning Area 11 in the southeastern portion of the community and provide for neighborhood retail, entertainment, restaurant and employment opportunities. Additionally, a 26.3-acre mixed-use area (Planning Area 12), which allows for retail commercial, entertainment, office, and municipal land uses, is located in the southwestern portion of the community. The land uses permitted in Planning Area 12 create additional employment opportunities. This variety of land uses within the community would create new jobs, increase sales tax revenues for the City, and expand the range of services available to the surrounding area. THE VILLAGES OF SAN JACINTO is therefore is consistent with these policies.
LU Policy 1.7: Encourage additional retail development to increase sales tax revenues and expand the range of services available to the community.	
LU Policy 1.8: Encourage the development of business parks and office parks to expand the number and type of job opportunities in San Jacinto.	
LU Policy 1.9: Support the provision of outdoor gathering places such as plazas, greens and squares to strengthen social interaction and provide	Section V, <i>Design Guidelines</i> , requires the construction of outdoor gathering places such as plazas and green spaces within the commercial and mixed-use area create opportunities for social

Table 5.1-2 (Continued)

Policy	Project Consistency
visual relief in developed areas.	gatherings. The community also includes landscaped paseos and a private lake and swim club to encourage and support social activities within the community. Furthermore, the community features 40.8 acres of public parks containing picnic areas, BBQ pits, benches, tot lots, and other amenities that encourage social interaction. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
Land Use Policy Goal: Manage and Direct Growth – <i>Manage and direct growth so that the community and its neighborhoods are protected and enhanced.</i>	
LU Policy 2.1: Assure that new development is complementary to the existing character of the City.	THE VILLAGES OF SAN JACINTO will develop the site with a similar building scale and development intensity commonly found in the community. The design theme of THE VILLAGES OF SAN JACINTO is based on a contemporary interpretation of historical southern California architectural styles and features a relaxed landscape feel reminiscent of rural communities. The Specific Plan also includes architectural design standards for site planning, architectural theme and details, building mass and scale, materials and color to create a high-quality living environment, as well complement and enhances the existing character of the City and the surrounding community.
LU Policy 2.2: Encourage infill development to be consistent with and complement the bulk, scale, intensity, and character of the existing surroundings.	
LU Policy 2.3: Ensure that development corresponds to the provision of community services and facilities and new development funds its share of improvements (e.g., parks, schools, trails, utilities).	THE VILLAGES OF SAN JACINTO provides for the development of public parks, public/municipal uses, and a high school. In addition, the community provides for the development of private parks and trails. As described in detail Specific Plan Section IV.7, <i>Project Phasing Plan</i> , THE VILLAGES OF SAN JACINTO provides for the development of infrastructure necessary to service the planned land uses and community facilities. The community master developer will also be required to pay development impact fees to cover the project's fair share of community services, including fire protection, police protection, and libraries. Therefore, THE VILLAGES OF SAN JACINTO is consistent with, and results in the implementation of, this General Plan policy.
LU Policy 2.4: Ensure that adequate infrastructure and public services are provided in concert with development so that no negative fiscal or service impact occurs as a result of new development.	
LU Policy 2.7: Locate retail and commercial land uses along major circulation routes at major intersections where there is maximum access and visibility.	THE VILLAGES OF SAN JACINTO includes 22.7 acres of commercial land uses along Bridge Street and Sanderson Avenue. In addition, the community includes 26.3 acres of mixed-use land uses along Bridge Street at the planned extension of Cawston Avenue. Bridge Street acts as a major circulation axis between Sanderson Avenue and Cawston Avenue, and will facilitate efficient access to-and-from the site for patrons and employees, while providing maximum visibility; therefore, ensuring consistency with this policy.
LU Policy 2.8: Direct higher density housing and higher intensity employment around commercial uses and job centers near transit nodes and areas served by a well-developed transportation network.	
It is important to note that the General Plan anticipates that community commercial land uses would be developed on the project site, immediately adjacent to Sanderson Avenue, as depicted on Figure III-2, <i>General Plan Map</i> . The project accommodates the commercial uses anticipated by the General Plan, but locates these uses at the southern portion of the site, along Bridge Street (as described above). The layout of mixed-use and commercial land uses planned by THE VILLAGES OF SAN JACINTO is preferred in lieu of the layout identified in the General Plan, as it provides a buffer between the EMWD wastewater treatment plant immediately adjacent to the southern site boundary and the open space and residential uses planned by the project.	

Table 5.1-2 (Continued)

Policy	Project Consistency
LU Policy 2.9: Where feasible and beneficial to the City and its residents, encourage the joint use of public facilities.	The project includes accommodations for a variety of public facilities (including a high school, public parks, and other municipal uses). The location of these planned uses within the community and their proximity to complementary uses, such as residential and commercial land uses, promotes the joint use of these facilities. Consequently, THE VILLAGES OF SAN JACINTO is consistent with this policy.
Land Use Policy Goal: Environmental Compatibility – Foster development in San Jacinto that ensures the compatibility of land uses with environmental conditions.	
LU Policy 3.1: Limit development in the hillsides, ridgelines, floodplains, and other high risk areas.	As discussed in Specific Plan Section III.B, <i>Environmental Setting</i> , the site is relatively flat and slopes gently to the northwest; no prominent slopes, hillsides or floodplains exist on-site. The northerly portion of the site is located within the 100-year floodplain. The drainage system (refer to Specific Plan Section IV.3, <i>Drainage Plan</i>) has been designed to convey and attenuate 100-year storm flows and provide flood protection for the site. A complete, detailed discussion of potential adverse impacts associated with 100-year storm flows is contained in the EIR accompanying this Specific Plan. As concluded in the EIR, with the incorporation of design measures and mitigation – as needed – implementation of the project will not result in substantial risk to humans or structures.
LU Policy 3.4: Preserve prominent ridgelines by restricting development on slopes of 40% or higher.	
LU Policy 3.2: Explore methods to preserve areas of severe natural hazards, such as landslides, ground subsidence, liquefaction, and flooding as open space.	As discussed in the EIR that accompanies the specific plan for THE VILLAGES OF SAN JACINTO, and as indicated in the Specific Plan, earthquake faults do traverse portions of the site. However, as shown on Figure III-6 of the Specific Plan, <i>Structural Setbacks</i> , the site has been designed to preserve areas located in the identified fault zone as recreational open space. As discussed above, the site is not subject to substantial adverse effects related to flooding. Accordingly, THE VILLAGES OF SAN JACINTO is consistent with this policy.
LU Policy 3.3: Permit the joint-use of preserve areas and easements such as seismic faults and drainage basins for open space and recreational uses.	A portion of the Casa-Loma segment of the San Jacinto Fault Zone Complex traverses a portion of the site. The fault segment and the surrounding fault zone buffer is inappropriate for development of residential uses or habitable structures. THE VILLAGES OF SAN JACINTO utilizes a majority of the fault zone area for active and passive recreational uses, site drainage, and internal circulation and is consistent with this policy.
Land Use Policy Goal: Land Use and Circulation Compatibility – Promote high quality development that ensures compatibility with surrounding land uses and major transportation corridors.	
LU Policy 4.1: Evaluate the compatibility of new development with surrounding uses when reviewing development proposals and designing the circulation system improvements.	THE VILLAGES OF SAN JACINTO will result in the development of the site with a mix of land uses consistent with the General Plan land use designations for the site. The land uses on-site will be developed with a similar building scale and development intensity commonly found in the surrounding community. Development on-site will be required to be consistent with Section V, Design Guidelines, of THE VILLAGES OF SAN JACINTO, which includes architectural design standards for site planning, architectural theme and details, building mass and scale, materials and color to create a high-quality living environment. In addition, as described in Specific Plan Section III, THE VILLAGES OF SAN JACINTO provides adequate circulation and infrastructure improvements to accommodate development of the site.
LU Policy 4.2: Ensure that new development is compatible with the physical characteristics of the site, surrounding land uses, and available public infrastructure.	

Table 5.1-2 (Continued)

Policy	Project Consistency
<p>LU Policy 4.3: Maximize commercial, retail, and employment opportunities along the City's major corridors and intersections, including SR-79, the Ramona Expressway, Sanderson, and Cottonwood.</p>	<p>As discussed above in the response to General Plan policy 2.7, THE VILLAGES OF SAN JACINTO Specific Plan provides 22.7 acres of commercial land uses and 26.3 acres of mixed-use adjacent to major circulation corridors. The location of mixed-use and commercial land uses along major circulation corridors will maximize visibility of these land uses and will provide site patrons and employees with adequate, efficient circulation to-and-from the site.</p>
<p>LU Policy 4.4: Ensure new development provides roadways that meet the City's standards based on the classifications shown in the Circulation Master Plan and the level of traffic expected to be generated by the proposed project.</p>	<p>THE VILLAGES OF SAN JACINTO Specific Plan includes a roadway network which provides safe and efficient circulation to individual planning areas and land uses. The Specific Plan includes full- and half-width improvements to the following General Plan Circulation Element roadway segments on-site: Sanderson Avenue, De Anza Drive, Bridge Street, Odell Avenue, Cawston Avenue, and Ramona Boulevard. In addition, the project provides for the construction of on-site local roads. All roadway improvements will be constructed to meet City of San Jacinto standards. The community's Circulation Plan, conceptually illustrated on Figure IV-2, <i>Project Circulation Plan</i>.</p> <p>The EIR that accompanies THE VILLAGES OF SAN JACINTO Specific Plan evaluates traffic and circulation impacts that may occur upon implementation of this project and provides mitigation measures to reduce identified impacts to a level below significance, when feasible. The Planning Commission and City Council will review the EIR to ensure adequate provision of circulation facilities.</p> <p>Therefore, THE VILLAGES OF SAN JACINTO Specific Plan is consistent with, and results in the implementation of, this policy of the General Plan.</p>
<p>LU Policy 4.5: Minimize the number of vehicular access points on major corridors by using reciprocal access agreements whenever feasible.</p>	<p>As depicted on Specific Plan Figure IV-2, <i>Project Circulation Plan</i>, the project has been designed to minimize vehicular access points on major circulation corridors, including Sanderson Avenue.</p>
<p>LU Policy 4.6: Enhance pedestrian access both within shopping centers and to and from commercial uses to reduce vehicle trips generated within the City.</p>	<p>Section V, <i>Design Guidelines</i>, requires that structures within Planning Area 11 (Neighborhood Commercial) and Planning Area 12 (Mixed Use Commercial) be oriented in a pedestrian-friendly manner to take advantage of park views. The commercial land uses are required to provide either street-facing entrances and/or entrances that are easily accessed from the park and parking areas. The scale of the buildings and plan are pedestrian-friendly and encourage pedestrian activity between structures. The design principles set forth in Section V, <i>Design Guidelines</i>, requires major projects or individual buildings at key locations within the commercial area to incorporate public plazas at focal points and at activity centers. Furthermore, parking lots within the commercial area shall be pedestrian-friendly in nature, with walkways provided in appropriate locations. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.</p>
<p>Land Use Policy Goal: Resource Preservation – <i>Preserve and protect the City's cultural, historic, agricultural, and visual resources.</i></p>	
<p>LU Policy 6.1: Balance the benefits of development with potential impacts to existing cultural resources.</p>	<p>The EIR that accompanies THE VILLAGES OF SAN JACINTO Specific Plan evaluates impacts to cultural resources that may occur upon implementation of this project and provides mitigation measures, as necessary, to reduce identified impacts to a level below significance. The</p>

Table 5.1-2 (Continued)

Policy	Project Consistency
	Planning Commission and City Council will review the EIR to ensure adequate protection of cultural resources.
LU Policy 6.3: Use landscaping for screening, solar control, parking lot shade, and other beautification purposes throughout the City.	THE VILLAGES OF SAN JACINTO Specific Plan includes an extensive set of landscape design guidelines to ensure the community is developed with a cohesive theme that weaves together the residential, recreational, and other components of the community. The landscape design guidelines include provisions for streetscapes, edge conditions between uses, monumentation and community walls and fences, as well as provisions to screen incompatible uses. In addition, the Specific Plan includes guidelines for site design and landscaping and provides solar control and maximizes energy efficiency (see Specific Plan Section V.E., <i>Energy Efficiency Guidelines</i>). Therefore, THE VILLAGES OF SAN JACINTO Specific Plan is consistent with this General Plan policy.
LU Policy 6.4: Encourage outdoor gathering spaces, such as mini-parks and plazas that encourage social interaction and also enhance the visual character of the community.	The land use plan for THE VILLAGES OF SAN JACINTO includes numerous outdoor gathering spaces, including public community parks, private paseos, a private lake, and a private lake house and swim lagoon. These outdoor spaces will include passive and active recreational opportunities, picnic areas, BBQ pits, benches, tot lots, landscaping and other amenities that encourage social interaction (as described in Specific Plan Section V, <i>Design Guidelines</i>).
LU Policy 6.5: Encourage the use of project design features that reduce impacts to important and local regional environmental resources.	<p>THE VILLAGES OF SAN JACINTO has been carefully planned to minimize impacts to important environmental resources. The drainage plan for the project has been designed to minimize water quality impacts and maximize protection from flood flows; the landscape plan has been designed to maximize water conservation. In addition, the lake on-site will contain recycled water and will be used to irrigate on-site landscaping, further reducing the impact on the water supply.</p> <p>The EIR that accompanies THE VILLAGES OF SAN JACINTO Specific Plan includes a detailed evaluation of the project's potential to result in significant direct and/or indirect impact to the environment impacts. The EIR includes mitigation measures that will be required in order to reduce impacts to below a level of significance, when feasible. The Planning Commission and City Council will review the EIR to ensure adequate protection of environmental resources.</p> <p>Accordingly, THE VILLAGES OF SAN JACINTO is consistent with this General Plan policy.</p>
LU Policy 6.10: Promote the maintenance of private and public properties to enhance the visual appearance of the community.	Section IV, Specific Plan, of THE VILLAGES OF SAN JACINTO Specific Plan includes a comprehensive maintenance plan (Table IV-4) and a list of potential maintenance entities for various public and private amenities within the community (Table IV-5). It is anticipated that maintenance responsibilities for common public facilities will be divided between the Master Homeowners' Association, Neighborhood Associations, and the City's Landscaping, Lighting and Park District #2 (LLPD#2), and the Riverside County Flood Control District. Final decisions regarding maintenance entities shall be made at a future stage of project design review and in concert with City departments. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.

Table 5.1-2 (Continued)

Policy	Project Consistency
Land Use Policy Goal: Economic Development – <i>Capitalize on the City's many economic development opportunities to promote a strong and economically health community.</i>	
<p>LU Policy 7.1: Promote the economic stability of the San Jacinto Area by encouraging diversification of the City's commercial and industrial base by:</p> <p>Encouraging a variety of industries to locate in San Jacinto, including retail, high technology, manufacturing, and professional services in order to promote the development of a mixed economic base; and</p> <p>Encourage the expansion of existing businesses if possible and extending efforts at business retention.</p>	<p>The project includes approximately 26.3 acres of mixed-use and 22.7 acres of commercial land uses. The Specific Plan allows these areas to be developed with a variety of uses, including but not limited to retail commercial, entertainment, restaurant, municipal, professional service, and office park land uses. Development of these uses on-site will positively contribute to the economic stability of the San Jacinto Area. As such, THE VILLAGES OF SAN JACINTO is consistent with, and results in the implementation of, this General Plan policy.</p>
Land Use Policy Goal: Community Design – <i>Encourage thoughtful community design that enhances San Jacinto's quality of life.</i>	
<p>LU Policy 9.1: Ensure new development is compatible with its natural surroundings and the built environment in terms of architecture, scale, grading, and massing.</p>	<p>The design theme of THE VILLAGES OF SAN JACINTO is based on a contemporary interpretation of historical southern California architectural styles and features a relaxed landscape feel reminiscent of rural communities. The Specific Plan also includes architectural design standards for site planning, architectural theme and details, building mass and scale, materials and color to create a high-quality living environment. The implementation of this design theme and development standards will ensure that land uses provided by this Specific Plan complement the natural surroundings as well as the growth and development that is anticipated to occur.</p>
<p>LU Policy 9.3: Support pedestrian-friendly and pedestrian-scaled development that encourages more social interaction and less automobile use, including mixed use and clustered developments.</p>	<p>THE VILLAGES OF SAN JACINTO includes an extensive sidewalk, trail, and paseo system connecting residences with the commercial areas, high school site, mixed-use area, and recreational amenities, thereby encouraging pedestrian activity. Furthermore, the community's mixed-use area may include public, professional offices, entertainment uses, churches, libraries emergency services, theatres and public plazas. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.</p>
<p>LU Policy 9.4: Provide public spaces and activity centers that encourage involvement, physical activity, and community pride.</p>	<p>THE VILLAGES OF SAN JACINTO provides for parks to encourage active recreation, and a system of trails and paseos is provided to encourage pedestrian and bicycle activity within the community. In addition, the community also features a lake and a lake house and swim lagoon, which will serve as a focal point of the community activities and source of community identification. The planned high school in Planning Area 14 is another element of the community that may be a source of community activities. Accordingly, the project would be consistent with this General Plan policy.</p>
<p>LU Policy 9.5: Support "green" and "sustainable" developments that respect and conserve the region's important resources.</p>	<p>Section V, <i>Design Guidelines</i>, includes a plant palette that requires the use of drought-tolerant plants and recycled water for irrigation. Furthermore, Section V, <i>Design Guidelines</i>, includes detailed Energy Efficiency Guidelines that identify elements in the site planning, design and construction phases of this Specific Plan that can and should be implemented to achieve a standard of energy efficient performance which is desirable for the homeowner, the landlord, the environment, and builder/developer. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.</p>

Table 5.1-2 (Continued)

Policy	Project Consistency
<p>LU Policy 9.6: Require the use and maintenance of extensive landscaping in new development and redevelopment projects to beautify the surroundings, screen outdoor uses, provide shade, establish pedestrian paths, buffer incompatible land uses, and provide visual interest.</p>	<p>Specific Plan Section V, <i>Design Guidelines</i>, includes a detailed description of the landscape design guidelines for the project, including streetscapes, monumentation, walls and fences. Implementation of the landscape design guidelines will provide visual interest throughout the community while uniting the various components of the community (i.e., residential uses, recreational uses, commercial uses) with a common design vocabulary. Specific Plan Section IV.8, <i>Comprehensive Maintenance Plan</i>, provides a comprehensive list of maintenance responsibilities for public and private entities to ensure that the community maintains a high level of quality. THE VILLAGES OF SAN JACINTO is consistent with, and results in the implementation of, this General Plan policy.</p>
<p>LU Policy 9.7: Encourage public art, such as murals, sculptures, creative street furniture, and fountains in new public and private developments.</p>	<p>THE VILLAGES OF SAN JACINTO Specific Plan provides for entry treatments and includes design criteria to encourage the creation of public gathering places with site amenities (which may include murals, sculptures, fountains, etc.). In addition, the project provides street furniture in accordance with City of San Jacinto requirements. As such, the project is consistent with this General Plan policy.</p>
<p>LU Policy 9.8: Develop and enforce development standards and design guidelines that provide clear yet flexible direction for achieving quality community design in new development and redevelopment projects throughout the community.</p>	<p>Section V, <i>Design Guidelines</i>, establishes standards to provide for high-quality development and to provide an aesthetically cohesive environment for THE VILLAGES OF SAN JACINTO community.</p> <p>The Landscaping Design Guidelines are comprised of key components such as, streetscapes, edge conditions between land uses, monumentation, community walls and fences, parks, and paseos. These guidelines also present requirements relating to the appropriate and water conserving plant palette and ensure that they are compatible with the community design theme. The Architectural Design Guidelines are intended to provide a basis for decisions regarding the structural environment to be built. The architectural design guidelines also include standards for site planning and home layout, as well as for commercial and mixed use development.</p> <p>The guidelines identified in Specific Plan Section V provide developers with clear, yet flexible, guidelines to provide quality development on-site.</p>
<p>Community Services and Facilities Element: The Community Services and Facilities Element addresses the services and infrastructure needed to serve the community. Much of the City of San Jacinto is undeveloped or under agricultural production and is not adequately served by existing community services and facilities to meet the needs of future development. As a result, most future development in the City requires the expansion of services and facilities to meet this increase in demand. Planning for this future increase in demand will ensure that the community service and facility need of future residents are met, while avoiding adverse impacts to the existing community.</p>	
<p>Community Services and Facilities Goal: Law Enforcement – Provide for the protection of San Jacinto residents and businesses through maintenance of an adequate force of police officers, appropriate physical planning of new development, and a high level of public involvement in crime prevention.</p>	
<p>CS&F Policy 1.1: Maintain adequate levels of law enforcement service.</p>	<p>The project master developer will be required to pay sufficient development impact fees to cover the project's share of community services and facilities, including police protection services. In addition, one or more Home Owners' Associations will be established for the community. The Home Owners' Association(s) may establish a</p>
<p>CS&F Policy 1.2: Improve law enforcement services through increased cooperation with County, State and Federal law enforcement agencies.</p>	

Table 5.1-2 (Continued)

Policy	Project Consistency
CS&F Policy 1.3: Provide sufficient staffing and facilities to minimize response times to emergency situations.	community involvement crime prevention program (for example, a neighborhood watch program). THE VILLAGES OF SAN JACINTO is therefore consistent with these General Plan policies.
CS&F Policy 1.4: Continue collaboration with other jurisdictions in providing back-up services, equipment, and personnel, when feasible and necessary.	
CS&F Policy 1.5: Expand community outreach programs and promote community involvement in crime prevention.	
CS&F Policy 1.6: Require design features in new development to reduce potential for crime.	THE VILLAGES OF SAN JACINTO Section V, <i>Design Guidelines</i> , includes numerous design features that promote safety and reduce criminal activity. These design features include special considerations for the siting of parks, paseos and cul-de-sacs, the use of locked key or security card access gates at paseo/park connections, the lighting of house numbers, the orientation of alley-loaded or rear-load homes towards the adjacent paseo areas, security lighting and sizing of trails within paseos to allow police patrol, and more. Parks have been oriented to provide for "eyes on the street" by surrounding residences and easy police patrol and emergency vehicle access from adjacent streets. Furthermore, homes shall be oriented to face park areas, and to fencing material shall be carefully selected to ensure maximum visibility of the parks from public areas. Common parking areas within the commercial, mixed-use, park, and school areas shall be well-lit for security purposes. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
Community Services and Facilities Goal: Fire Protection – Work with RCOFD to provide a sufficient level of fire protection.	
CS&F Policy 2.1: Work closely with RCOFD in determining and meeting community needs for fire protection services, facilities, and personnel.	The project master developer will be required to pay sufficient development impact fees to cover the project's share of community services and facilities, including fire protection services. Payment of these fees will offset the incremental increase in demand for fire protection services/facilities that will result from the project. In addition the RCOFD is a reviewing agency of this Specific Plan and subsequent implementing actions will be required to comply with all applicable RCOFD site design standards and regulations. Accordingly, THE VILLAGES OF SAN JACINTO is consistent with these General Plan policies.
CS&F Policy 2.2: Periodically evaluate the level of fire protection service to ensure that San Jacinto has appropriate levels of fire protection service to maintain the adopted level of service standards.	
CS&F Policy 2.4: Plan for the location of convenient and adequate fire stations to serve the existing and future residents of San Jacinto.	
CS&F Policy 2.3: Enforce the continued maintenance of private property, such as weed abatement, to reduce the incidents of fire hazards.	Private property within the community shall be maintained by the HOA or the individual homeowners. Furthermore, Section IV, <i>Specific Plan</i> , of THE VILLAGES OF SAN JACINTO Specific Plan establishes comprehensive maintenance plan (Table IV-4) and a list of potential maintenance entities for various public and private amenities within the community (Table IV-5). THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
CS&F Policy 2.5: Provide and maintain adequate infrastructure, including fire hydrants, fire stations, fire flows, and access points, that meet RCOFD's standards.	The project circulation plan provides adequate primary and secondary emergency access. In addition, the master water plan has been designed to ensure that future development of the site can accommodate applicable infrastructure requirements (including minimum fire flows). Fire protection infrastructure (e.g., fire hydrants) and fire

Table 5.1-2 (Continued)

Policy	Project Consistency
	protection design features (e.g., fire lanes) will be identified on future site plans and/or conditional use permits and are subject to review and approval by the City of San Jacinto. THE VILLAGES OF SAN JACINTO IS therefore consistent with this policy.
Community Services and Facilities Goal: Public Education – <i>San Jacinto is located within the San Jacinto Unified School District (SJUSD) and the Hemet Unified School District (HUSD). Mount San Jacinto College (MSJC) is also located within the City. The City must closely coordinate with SJUSD, HUSD, and MSJC to ensure a sufficient level of public education is available to the community.</i>	
CS&F Policy 3.2: Promote the development and siting of quality educational facilities to meet the needs of future residents through increased cooperation between the City and school districts.	THE VILLAGES OF SAN JACINTO provides a 69.1-acre site for use as a High School campus by the San Jacinto Unified School District in Planning Area 14 and allows for possible expansion of the High School campus into Planning Area 19. Additionally, THE VILLAGES OF SAN JACINTO Specific Plan permits the development of Planning Areas 12 and 13 as school sites. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
CS&F Policy 3.5: Minimize the impacts of schools on adjacent properties.	Section V, <i>Design Guidelines</i> , of THE VILLAGES OF SAN JACINTO Specific Plan includes design guidelines for transitions between various types of land uses, including residential and public facility/educational uses. The intent of these guidelines are to anticipate and eliminate possible conflicts between land uses. Future development of the site will be required to be consistent with the design guidelines for land use transitions, thus ensuring that impacts of schools on adjacent properties are minimized.
Community Services and Facilities Goal: Water Service – <i>Work with local, regional, and State water agencies to provide sufficient levels of water service.</i>	
CS&F Policy 4.1: Provide sufficient levels of water service to meet the water needs of the community through the orderly extension of infrastructure and provision of adequate water supplies.	The Eastern Municipal Water District (EMWD) has prepared a Water Supply Assessment report for the project. The report concludes that EMWD is projected to have adequate water supply to service the project. In addition, the project would minimize its demand for water supplies through the extensive use of recycled water for landscape irrigation; the use of drought-tolerant, native landscape materials; the recommended use of water-efficient faucets, toilets, and shower heads; and the recommended use of water-efficient, zoned irrigation systems. A detailed discussion of the project's impacts to the local water supply is found in the EIR that accompanies THE VILLAGES OF SAN JACINTO Specific Plan.
CS&F Policy 4.2: Work closely with the Eastern Municipal Water District and the Lake Hemet Municipal Water District to maintain an adequate level of water service in the planning area.	The master water plan for the community provides a water distribution system that is based on EMWD requirements and will adequately serve the community in a manner consistent with the EMWD Northwest San Jacinto Area Master Plan. Based on the foregoing, THE VILLAGES OF SAN JACINTO is consistent with these General Plan policies.
CS&F Policy 4.3: Encourage water conservation as a means of preserving water resources.	As shown in Figure IV-5, <i>Master Water Plan</i> , recycled water pipelines will be installed concurrently with domestic lines. The water from this recycled water system will be used to manage the lake and for irrigation purposes. In addition, Section V, <i>Design Guidelines</i> , includes a plant palette that requires the use of drought-tolerant plants. Furthermore, Section V, <i>Design Guidelines</i> , includes detailed Energy Efficiency

Table 5.1-2 (Continued)

Policy	Project Consistency
	Guidelines, including water conservation measures that identify elements in the site planning, design and construction phases of this Specific Plan that can and should be implemented to achieve a standard of energy efficient performance which is desirable for the homeowner, the landlord, the environment, and builder/developer. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
Community Services and Facilities Goal: Sewer Service – <i>Work with the Eastern Municipal Water District to provide a wastewater collection, treatment, and disposal system to adequately serve existing and future development in San Jacinto.</i>	
CS&F Policy 5.3: Ensure compatible development occurs surrounding the San Jacinto Waste Water Treatment Facility.	THE VILLAGES OF SAN JACINTO has been carefully designed and planned to ensure that development on-site is compatible with the San Jacinto Waste Water Treatment Facility, which is located immediately adjacent to the southern project boundary. The mixed-use and commercial land uses (Planning Areas 11 and 12) buffer the community from the Waste Water Treatment Facility and complement the residential and recreational components of the community. In addition, three public parks (Planning Areas 15B, 15C, and 15D) provide an additional buffer between the off-site Waste Water Treatment Facility and planned residential uses. Accordingly, implementation of THE VILLAGES OF SAN JACINTO Specific Plan would ensure that compatible development occurs adjacent to the Waste Water Treatment Facility and would ensure that community residents are not exposed to adverse edge-effects. As such, the project is consistent with this General Plan policy.
CS&F Policy 5.4: Encourage water conservation as a means of reducing sewage generation.	THE VILLAGES OF SAN JACINTO encourages the use of water-efficient faucets, high-efficiency toilets, and water conserving shower heads to maximize water conservation and reduce sewage generation. The project encourages the use of a pool filtration system with a zero water backwash system to reduce the need to drain the pool for regular maintenance purposes. In addition, as described in Section V, Design Guidelines, the plant palette for the project has been designed to feature native or naturalized, drought-resistant plant material, and the conceptual landscape design will minimize the use of turf. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
CS&F Policy 5.5: Expand the use of reclaimed water.	As shown in Figure IV-5, <i>Master Water Plan</i> , recycled water pipelines will be installed concurrently with domestic lines. The water from this recycled water system will be used to maintain the lake volume and provide water storage for irrigation purposes. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
CS&F Policy 5.6: To reduce potential negative impacts to groundwater, minimize the use of septic systems.	THE VILLAGES OF SAN JACINTO Specific Plan does not provide for the use of septic systems on site. Wastewater generated by the community will conveyed via a sanitary sewer system to existing EMWD sewer facilities, as described in Specific Plan Section 4.B, and conceptually illustrated in Figure IV-6, <i>Master Sewer Plan</i> .
Community Services and Facilities Goal: Power – <i>Work effectively with providers of natural gas and electricity to provide sufficient levels of these services.</i>	
CS&F Policy 6.1: Work closely with local service providers in determining and meeting the needs of the community for energy.	Energy demands associated with the project are addressed through long-range planning by energy purveyors and can be accommodated as they occur. Therefore, project implementation is not anticipated to result in adverse impacts related to energy demand. Required electrical transmission lines on-site would be installed by the responsible energy
CS&F Policy 6.4: Minimize the visual and environmental impacts of the development and	

Table 5.1-2 (Continued)

Policy	Project Consistency
operation of energy facilities on the community.	utility. THE VILLAGES OF SAN JACINTO is consistent with these policies of the General Plan.
Community Services and Facilities Goal: Communications – <i>Work effectively with providers of communications to provide sufficient levels of these services.</i>	
CS&F Policy 7.2: Encourage all new development to provide the technology to support multiple telecommunications facilities and providers such as multi-media products, wireless technologies, and satellite communications.	THE VILLAGES OF SAN JACINTO will accommodate telecommunications as necessary and required to service the project site. If feasible, the master developer will work with an internet provider to establish a project-wide wifi network. THE VILLAGES OF SAN JACINTO is, therefore, consistent with the San Jacinto General Plan.
Community Services and Facilities Goal: Flood Control – <i>Work effectively with providers of flood control services and facilities to provide and maintain sufficient levels of service.</i>	
CS&F Policy 8.1: Ensure that adequate flood control facilities are provided to protect the lives and property of San Jacinto's residents.	As described in THE VILLAGES OF SAN JACINTO EIR, the community provides for adequate flood control facilities. Furthermore, a portion of the regional area drainage plan, the San Jacinto Valley Master Drainage Plan, traverses THE VILLAGES OF SAN JACINTO community along its western boundary. The community design acknowledges and accommodates these regional drainage facilities, utilizing a series of storm water channels, water quality control basins, and detention basins to collect and transport stormwater through the site. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
Community Services and Facilities Goal: Waste Disposal – <i>Work effectively with providers of waste disposal to provide sufficient levels of these services.</i>	
CS&F Policy 9.1: Reduce the amount of solid waste requiring disposal at landfills.	Section V, <i>Design Guidelines</i> , includes detailed Energy Efficiency Guidelines that identify elements in the site planning, design and construction phases of this Specific Plan that can and should be implemented to achieve a standard of energy efficient performance which is desirable for the homeowner, the landlord, the environment, and builder/developer. Included within the Energy Efficiency Guidelines are specific recommendations to minimize the amount of landfill waste generated by the project, including the use of long-lasting construction products (for example, engineered lumber) and sustainable building materials. In addition, THE VILLAGES OF SAN JACINTO Specific Plan encourages the provisions of exterior storage areas for recyclables and adequate recycling containers in public areas, in addition to the establishment (by the HOA) of community compost sites for green waste. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
Community Services and Facilities Goal: Recreation and Open Space – <i>Provide sufficient parks, recreational, and open space facilities.</i>	
CS&F Policy 10.1: Work with the Valley-Wide Recreation and Park District and other organizations to provide active and passive parks, recreational, and open space facilities that meet the needs of all segments of the community.	The community's maximum potential buildout of 1,329 dwelling units would result in approximately 4,000 community residents (at a rate of 3.01 persons per household). Per the requirements of the Quimby Act, the community would require approximately 20 acres of active parkland. THE VILLAGES OF SAN JACINTO Specific Plan exceeds this requirement by providing an extensive paseo and trail system and 40.8 acres of active public park facilities (Planning Area 15B, 15C, and 15D). In addition to the public parks, paseos, and trails, the community includes a 1.0-acre private neighborhood park (Planning Area 15A), a 1.2-acre private neighborhood park (Planning Area 15E), and a private 5.1-acre Lake

Table 5.1-2 (Continued)

Policy	Project Consistency
	House and Swim Lagoon. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
CS&F Policy 10.2: Cooperate with private developers and public agencies to create a network of equestrian, biking, and hiking trails that link to adjacent regional and local trails networks.	THE VILLAGES OF SAN JACINTO links the residential, commercial, recreational, mixed-use, and school land uses via a 9.6-acre system of paseos, which connects to city sidewalks. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
CS&F Policy 10.3: Use flood control facilities for passive recreational activities when appropriate.	Flood control facilities, including drainage channels and detention basins, have been incorporated into the design of the project (Planning Areas 18A-18D). The flood control facilities provided on-site are not considered appropriate for recreational activities. As such, THE VILLAGES OF SAN JACINTO is consistent with this General Plan policy.
CS&F Policy 10.4: Encourage the joint use of City and other public agency facilities for recreational purposes, education, and flood control whenever feasible.	THE VILLAGES OF SAN JACINTO provides for a high school campus and a mixed-use area (which may accommodate public/municipal/ institutional land uses). The distribution of these land uses adjacent to recreational and residential uses promotes the joint use of public facilities.
CS&F Policy 10.5: When feasible, use less developable or undevelopable lands, including utility corridors, fault zones, channels, and easements for passive and active recreational uses that have minimal potential for impacts on the environment.	The project site contains a portion of the Casa-Loma segment of the San Jacinto fault zone project. The fault segment and the surrounding fault zone buffer are inappropriate for development with residential uses or habitable structures. THE VILLAGES OF SAN JACINTO utilizes a majority of the fault zone area for active and passive recreational uses, flood control facilities, and internal circulation – uses that have a minimal potential for impacts on the environment or residents/visitors of the site. Accordingly, the project is consistent with this General Plan policy.
CS&F Policy 10.6: Encourage the development of private recreational facilities to expand recreational opportunities of the City's residents.	THE VILLAGES OF SAN JACINTO includes a variety of public and private recreational amenities. In addition to the 40.8 acres of public parks and an extensive paseos and trails system, the community includes a 1.0-acre private neighborhood park (Planning Area 15A), a 1.2-acre private neighborhood park (Planning Area 15E), and a 5.1-acre Lake House and Swim Lagoon. In addition, the uses permitted in Planning Area 12 include private recreation such as skating rinks, health clubs, etc. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
CS&F Policy 10.7: Encourage neighborhood groups, organizations, clubs and businesses to take a greater interest and financial responsibility in the improvement of the park and recreation system in the City.	THE VILLAGES OF SAN JACINTO Specific Plan provides 40.8 acres of active public park facilities (Planning Area 15B, 15C, and 15D). In addition to the public parks, the community includes a 1.0-acre private neighborhood park (Planning Area 15A), a 1.2-acre private neighborhood park (Planning Area 15E), a 5.1-acre Lake House and Swim Lagoon, and a paseo system. Private recreational facilities will be maintained by a Homeowners' Association and public facilities will be maintained by the City of San Jacinto, pursuant to the maintenance responsibility schedule established within this Specific Plan. THE VILLAGES OF SAN JACINTO is consistent with this policy.
CS&F Policy 10.8: Actively pursue all available sources of financing for parkland acquisition and maintenance.	

Table 5.1-2 (Continued)

Policy	Project Consistency
<p>Circulation Element: The City of San Jacinto is served by a diverse circulation network consisting of roadways, rail service and trails. Convenient access to the community has been provided for many years by a combination of regional and local roadways. The Circulation Element guides the continued development and improvement of the circulation system to support existing and planned development, while the Land Use Element identifies the City's existing and planned development pattern. The development of additional land in the future will increase the demand for local and regional roadway improvements and construction. The Circulation Element also establishes acceptable roadway service levels and identifies improvements to maintain the service levels. The use of other modes of transportation, such as transit, walking and bicycling is promoted to reduce the demand on the circulation system and to improve air quality.</p>	
<p>Circulation Goal: Local Circulation System – Provide for the protection of San Jacinto residents and businesses through maintenance of an adequate force of police officers, appropriate physical planning of new development, and a high level of public involvement in crime prevention.</p>	
<p>C Policy 1.1: Provide a balanced circulation system that ensures the safe and efficient movement of people and goods throughout the City.</p>	<p>THE VILLAGES OF SAN JACINTO Specific Plan includes a roadway network which provides safe and efficient vehicular and pedestrian circulation to individual planning areas and land uses. The Specific Plan includes full- and half-width improvements to the following General Plan Circulation Element roadway segments on-site: Sanderson Avenue, De Anza Drive, Bridge Street, Odell Avenue, Cawston Avenue, and Ramona Boulevard. In addition, the project provides for the construction of on-site local roads. All roadway improvements will be constructed to meet City of San Jacinto standards. The community's Circulation Plan, conceptually illustrated on Figure IV-2, <i>Project Circulation Plan</i>.</p> <p>The EIR that accompanies THE VILLAGES OF SAN JACINTO Specific Plan evaluates traffic and circulation impacts that may occur upon implementation of this project and provides mitigation measures to reduce identified impacts to a level below significance, when feasible. The Planning Commission and City Council will review the EIR to ensure adequate provision of circulation facilities.</p> <p>Therefore, THE VILLAGES OF SAN JACINTO Specific Plan is consistent with, and results in the implementation of, this policy of the General Plan.</p>
<p>C Policy 1.2: Improve the San Jacinto circulation system to desired standards in concert with land development to maintain sufficient levels of service.</p>	
<p>C Policy 1.6: Require new development to provide roadway, sidewalk, and median improvements that enhance the visual character of the roadway system and encourage pedestrian and bicycle safety.</p>	<p>THE VILLAGES OF SAN JACINTO is consistent with this policy and implementation program because the community includes a Circulation Plan that allows traffic to move efficiently on-site and off-site. As described in THE VILLAGES OF SAN JACINTO EIR, implementation of the proposed Circulation Plan would result in an efficient and safe roadway system for vehicles, pedestrians, and bicyclists. The Master Developer for THE VILLAGES OF SAN JACINTO is required to provide roadway, sidewalk, landscaped parkways, and raised or landscaped median improvements to internal project roadways and project frontage roads in accordance to the traffic study prepared by Urban Crossroads. Furthermore, Specific Plan Section V, <i>Design Guidelines</i>, includes landscape guidelines that serve to ensure the aesthetic and cohesive appearance of the community's streetscapes. An extensive trails and paseo system is also included in THE VILLAGES OF SAN JACINTO.</p> <p>Furthermore, THE VILLAGES OF SAN JACINTO Circulation Plan is consistent with the circulation requirements and roadway configurations included in the adopted General Plan. THE VILLAGES OF SAN JACINTO is therefore is consistent with this policy.</p>

Table 5.1-2 (Continued)

Policy	Project Consistency
C Policy 1.7: Encourage the provision of traffic calming measures in new residential areas and planned developments.	As described in Specific Plan Section IV.2, <i>Circulation Plan</i> , THE VILLAGES OF SAN JACINTO traffic calming measures may be installed along major pedestrian corridors within the community, Cawston Avenue between De Anza Drive and Ramona Boulevard (if determined to be necessary and appropriate by the project traffic engineer and the City). These traffic calming measures will promote safe pedestrian circulation through the site and will ensure consistency with this General Plan policy.
Circulation Goal: Alternative Modes of Travel – Promote the increased use of public and multi-modal transportation, and provide adequate facilities for these modes of transportation.	
C Policy 4.1: Require developers to incorporate facilities for public and other alternative modes of transportation, such as park-and-ride lots, bicycle and pedestrian trails, bicycle racks, and bus turnouts in the design of future developments.	THE VILLAGES OF SAN JACINTO encourages alternative modes of transportation through an extensive trails, paseo, and sidewalk system. Furthermore, park and ride lots may be accommodated within Planning Area 11 (Commercial) of Planning Area 12 (Mixed-Use), and Sanderson Avenue is a bus route. Any amenities for public transportation, (such as bus benches or turn-outs) would be incorporated into the design of the project at the tentative map stage as directed by the City of San Jacinto. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
C Policy 4.2: Incorporate design features such as bus turnouts, bicycle racks and park-and-ride lots into public improvement projects that promote and support the use of public and alternative modes of transportation.	
C Policy 4.3: Link Community Commercial development, employment centers, public facilities, and community parks and open spaces to the alternative transportation system, wherever feasible.	THE VILLAGES OF SAN JACINTO provides an extensive, interconnected circulation system that links residential, educational, recreational, mixed-use and commercial land uses and promotes pedestrian and bicycle travel via trails, paseos, and sidewalks. The project is therefore consistent, and results in the implementation of, these policies.
C Policy 4.4: Require Specific Plans and Planned Unit Developments to include well-developed and funded alternative transportation features.	
Circulation Goal: Trails System – Provide an extensive and regionally linked public bicycle, pedestrian, and equestrian trails system.	
C Policy 5.1: Provide and maintain an extensive trails network that supports bicycles, pedestrians and horses and is linked to the trails systems of adjacent jurisdictions.	As illustrated in Figure V-29, <i>Conceptual Trails and Parks Plan</i> , the project provides an extensive system of sidewalks, trails, and paseos that link the residential, educational, recreational, mixed-use and commercial components of the community. The sidewalks, trails, and paseos have been designed to accommodate pedestrian and bicycle use. THE VILLAGES OF SAN JACINTO is consistent with this policy.
C Policy 5.2: Link major activity centers, residential neighborhoods, schools, shopping centers and employment centers through bicycle, equestrian and pedestrian trails.	
C Policy 5.3: Encourage the use of open space and utility easements for bicycle and pedestrian trails, where feasible.	
C Policy 5.4: Require Specific Plans and Planned Unit Developments to include well-developed and designed trails that link to adjacent existing or planned local and/or regional trails.	

Table 5.1-2 (Continued)

Policy	Project Consistency
Circulation Goal: Transportation Demand Management – Create transportation management strategies to comply with the County Congestion Management Plan.	
C Policy 6.1: Create and implement transportation demand and congestion management mitigation measures in areas experiencing high levels of congestion.	The EIR that accompanies THE VILLAGES OF SAN JACINTO Specific Plan evaluates the project's consistency with the Congestion Management Plan and establishes mitigation measures (as necessary) to reduce identified impacts to below a level of significance (as feasible). The
C Policy 6.2: Review development proposals for compliance with the Congestion Management Plan.	Planning Commission and City Council will review the EIR to ensure adequate provision of circulation facilities and future development will be required to comply with the mitigation measures established in the EIR. As such, THE VILLAGES OF SAN JACINTO is consistent with these General Plan policies.
C Policy 6.3: Require developers to assist with improvements to the circulation system that will minimize congestion related to their projects.	THE VILLAGES OF SAN JACINTO is consistent with this policy and implementation program because the project includes street design which allows traffic to move efficiently on-site and off-site. As part of implementation of the Specific Plan, the Master Developer is responsible for constructing full-width improvements to internal roadways, including Street "A," Street "B," Street "C," De Anza Drive, and portions of Cawston Avenue. The Master Developer is also responsible for constructing half-width improvements to community frontage roads, including Ramona Boulevard, Sanderson Avenue (from Ramona Boulevard to the southern community boundary), O'Dell Avenue, and portions of Cawston Avenue. A traffic study was prepared by Urban Crossroads, which provides recommendations for improvements. As described in THE VILLAGES OF SAN JACINTO EIR, implementation of the proposed Circulation Plan would result in an efficient and safe roadway system.
Resource Management Element: The San Jacinto Resource Management Element meets the State requirements for the Conservation and Open Space Elements as defined in Sections 65302(d) and 65301(e) of the Government Code, respectively. According to these requirements, the Conservation Element must contain goals and policies to protect and maintain natural resources such as water, soils, wildlife and minerals, and prevent wasteful resource exploitation, degradation and destruction. The Open Space Element must contain goals and policies to manage open space areas including undeveloped lands and environmentally constrained areas. Specifically, the Open Space Element must address several open space categories such as those used for the preservation of natural resources and managed production of resources, as well as open space maintained for public health and safety reasons. This last category of open space is addressed in more detail in the Public Safety Element. Although briefly mentioned in this Element, the Community Services and Facilities Element provides a detailed description of the parks, trails and recreational facilities in San Jacinto.	
Resource Management Goal: Natural Resources – Conserve and protect natural resources.	
RM Policy 1.2: Work closely with the County of Riverside to implement the Multiple Species Habitat Conservation Plan that meets the goal of preservation, but allows for economic development of the community.	The Specific Plan is consistent with this policy. As stated in Section 5.4, Biological Resources, the project is consistent with the Western Riverside County MSHCP, and will not interfere with the City, other jurisdictions or the Western Riverside County Regional Conservation Authority's ability to implement the MSHCP. .
RM Policy 1.7: Encourage the planting of native trees and drought tolerant vegetation.	THE VILLAGES OF SAN JACINTO Section V, <i>Design Guidelines</i> , includes the community's plant palette. This palette includes California native and drought tolerant plants which compatible with the San Jacinto area climate, and which reflect the overall theme of THE VILLAGES OF SAN JACINTO Specific Plan, and are drought tolerant. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.

Table 5.1-2 (Continued)

Policy	Project Consistency
Resource Management Goal: Water Resources – <i>Conserve and protect surface water, ground water and imported water resources.</i>	
RM Policy 2.1: Coordinate water quality and supply programs with responsible water agencies.	A Water Supply Assessment report has been prepared for the project by EMWD. Based on the findings of the Water Supply Assessment, EMWD projects that they will have adequate supply to serve the project. Accordingly, THE VILLAGES OF SAN JACINTO is not anticipated to adversely affect the local water supply and would be consistent with this General Plan policy.
RM Policy 2.2: Ensure the placement of infrastructure for water supply and treatment to support development in areas designated for urban growth.	THE VILLAGES OF SAN JACINTO Section IV, <i>Specific Plan</i> , describes the community's Master Water Plan. Based on EMWD requirements, the recommended water distribution system to provide services to THE VILLAGES OF SAN JACINTO is shown on Figure IV-5, <i>Master Water Plan</i> .
RM Policy 2.3: Ensure sufficient water capacity is available for new development.	Prior to final engineering and construction of all domestic and recycled water lines, a Plan of Service Study will be completed in accordance with EMWD standards to ensure the aforementioned pipe sizes and any additional infrastructure facilities as required to serve this project are in conformance with EMWD's Master Plan. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
RM Policy 2.4: Protect the aquifer and encourage ground water recharge.	As discussed in the EIR that accompanies THE VILLAGES OF SAN JACINTO Specific Plan, implementation of the project is not anticipated to result in any adverse impacts related to local groundwater resources or groundwater recharge. The project is therefore consistent with these policies.
RM Policy 2.5: Cooperate with federal, State, and county governments and other agencies on the maintenance and improvement of the quality and quantity of local and regional groundwater resources.	
RM Policy 2.6: Promote water conservation by encouraging the use of reclaimed water, promoting the use of water efficient landscaping and requiring development to utilize water conservation measures such as water efficient plumbing and xeriscape landscaping.	As shown in Figure IV-5, <i>Master Water Plan</i> , recycled water pipelines will be installed concurrently with domestic lines. The water from this recycled water system will be used to restore the lake and for irrigation purposes. In addition, Section V, Design Guidelines, includes a plant palette that requires the use of drought-tolerant plants. Furthermore, Section V, <i>Design Guidelines</i> , includes detailed Energy Efficiency Guidelines that identify elements in the site planning, design and construction phases of this Specific Plan that can and should be implemented to achieve a standard of energy efficient performance which is desirable for the homeowner, the landlord, the environment, and builder/developer. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
RM Policy 2.10: Expand the use of reclaimed water, whenever feasible.	
Resource Management Goal: Agricultural Resources – <i>Where appropriate, conserve agricultural lands and avoid the premature conversion of agricultural land to urban uses.</i>	
RM Policy 5.2: Foster development techniques and agricultural practices that minimize the incompatibility of agricultural activities with urban development while maximizing agricultural production.	THE VILLAGES OF SAN JACINTO has been designed to minimize impacts on adjacent land uses, including agricultural uses. Development of the site is expected to follow the phasing plan depicted on Figure IV-9, <i>Conceptual Phasing Plan</i> . Conformance with the phasing plan will further minimize incompatibility with adjacent residential uses.
RM Policy 5.3: Protect agricultural lands from premature conversion to urban uses.	The project site is planned for residential and commercial development as shown in the General Plan, and is neither protected by an agricultural overlay zone nor located in an agricultural preserve. Implementation of THE VILLAGES OF SAN JACINTO will develop the site in accordance with the City's overall vision for the area as identified in the General Plan and will

Table 5.1-2 (Continued)

Policy	Project Consistency
	not result in the premature conversion of agricultural lands to urban uses.
Resource Management Goal: Air Quality – Improve Air Quality	
RM Policy 6.3: Achieve a greater balance between jobs and housing in San Jacinto.	THE VILLAGES OF SAN JACINTO combines housing, employment, and retail activities on one site. The community contains 1,329 residential units, 22.7 acres of commercial land uses, and 26.3 acres of mixed-use land uses. This balance of land uses within the community would contribute towards a greater balance between jobs and housing within the City. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
RM Policy 6.8: In appropriate areas, allow mixed use development that combines housing, employment, and retail activities on one site.	
RM Policy 6.5: Promote energy conservation and recycling by the public and private sectors.	Section V, <i>Design Guidelines</i> , includes detailed Energy Efficiency Guidelines that identify elements in the site planning, design and construction phases of this Specific Plan that can and should be implemented to achieve a standard of energy efficient performance which is desirable for the homeowner, the landlord, the environment, and builder/developer. Included within the Energy Efficiency Guidelines are specific recommendations to maximize energy efficiency and water quality/conservation (i.e., green building standards), minimize landfill waste (by providing adequate recycling areas/containers, for example), and encouraging pedestrian activity and use of bike paths.
RM Policy 6.10: Support sustainable development patterns and green building standards that reduce energy use.	
RM Policy 6.6: Encourage alternative modes of transportation to reduce vehicular emissions and improve air quality.	THE VILLAGES OF SAN JACINTO includes an extensive trails, paseo, and sidewalk system that encourages alternative modes of transportation between the residences, school, commercial areas, recreational amenities, and mixed-use area. Use of the alternative circulation options by pedestrians and bicycles will reduce vehicular emissions and will improve local air quality. THE VILLAGES OF SAN JACINTO is therefore consistent with these policies.
RM Policy 6.7: Encourage pedestrian scale development and pedestrian friendly access to reduce vehicle emissions.	
Resource Management Goal: Energy Conservation – Promote the conservation of energy.	
RM Policy 7.1: Encourage the efficient use of energy resources.	Section V, <i>Design Guidelines</i> , includes detailed Energy Efficiency Guidelines that identify elements in the site planning, design and construction phases of this Specific Plan that can and should be implemented to achieve a standard of energy efficient performance which is desirable for the homeowner, the landlord, the environment, and builder/developer. The design recommendations have been categorized according to the following goals: 1) Maximize Energy Efficiency; 2) Maximize Water Quality and Conservation; 3) Minimize Landfill Waste; 4) Promote Health by Improving Indoor Air Quality; and 5) Encourage Pedestrian Activities and Use of Bike Paths. The use of energy efficient building materials, equipment, and design will reduce operating costs and contribute to the reduction in environmental impacts associated with air quality, hydrology, water quality, hazards, and utilities. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
RM Policy 7.3: Support the use of energy efficient building materials, equipment, and design in City facilities and infrastructure.	
Public Safety Element: The purpose of the Public Safety Element is to identify and address those features or characteristics existing in or near the City that represent a potential hazard to the citizens, structures, and infrastructure in the community. The Public Safety Element establishes policies to minimize the danger to residents, workers and visitors while identifying actions needed to manage crises such as earthquakes, fires and floods. Additionally, the Public Safety Element contains specific policies and programs to regulate existing and proposed development in hazard-prone areas. Emergency preparedness and evacuation routes are also addressed.	

Table 5.1-2 (Continued)

Policy	Project Consistency
Public Safety Goal: Natural Hazards – <i>Minimize the risk of injury and the loss of life and property related to geologic conditions, seismic activity, wildfires, and flooding.</i>	
PS Policy 1.1: Reduce the risk of impacts from geologic and seismic hazards by applying proper and up to date land use planning, development engineering, building construction, and retrofitting requirements.	<p>The project site contains a portion of the Casa-Loma segment of the San Jacinto fault zone project. The fault segment and the surrounding fault zone buffer are inappropriate for development with residential uses or habitable structures. THE VILLAGES OF SAN JACINTO utilizes a majority of the fault zone area for active and passive recreational uses, flood control facilities, and internal circulation – uses that have a minimal potential for impacts on the environment or residents/visitors of the site.</p> <p>In addition, a geotechnical engineering report was prepared for the project and is discussed in the EIR that accompanies THE VILLAGES OF SAN JACINTO Specific Plan. Mandatory compliance with the design recommendations included within the project geotechnical report, State building code, and City of San Jacinto building requirements will ensure that adverse impacts related to geologic and seismic hazards will be reduced to the maximum feasible extent.</p> <p>Accordingly, implementation of the project is consistent with this General Plan policy.</p>
PS Policy 1.2: Encourage landscaped open space uses for areas within identified fault zones, and prohibit residential development in these areas.	As described in the geotechnical report prepared by Leighton & Associates for THE VILLAGES OF SAN JACINTO EIR, a California Earthquake Fault Hazard Zone traverses several portions of the project. Based on analysis of the fault trace and disturbance zones, the report recommended structural setback limits from faults for residential development. These setback criteria were utilized during the design process, resulting in parks provided on the portions of the project where faults exist. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
PS Policy 1.5: Protect the community from flooding hazards by providing and maintaining flood control facilities and limiting development within the flood plain.	The northerly portion of the site is located within the 100-year floodplain. The drainage system (refer to Specific Plan Section IV.3, <i>Drainage Plan</i>) has been designed to convey and attenuate 100-year storm flows and provide flood protection for the site. A maintenance plan has been established in THE VILLAGES OF SAN JACINTO Specific Plan to ensure that on-site drainage facilities operate at maximum efficiency. A complete, detailed discussion of potential adverse impacts associated with 100-year storm flows is contained in the EIR accompanying this Specific Plan. As concluded in the EIR, with the incorporation of design measures and mitigation – as needed – implementation of the project will not result in substantial adverse impacts related to flood hazards.
Public Safety Goal: Human Activity Hazards – <i>Protect the community from hazards related to air pollution, dam inundation, hazardous materials, structural fires, ground transportation, and criminal activity.</i>	
PS Policy 2.6: Provide sufficient levels of police, fire, and emergency response service to reduce the risk of criminal activity.	Upon ultimate development of the site, the master developer of THE VILLAGES OF SAN JACINTO will be required to contribute development impact fees to cover its “fair share” cost of providing sufficient public services and facilities to the site, including fire protection, police protection, and emergency response service. The project is therefore consistent with this General Plan policy.

Table 5.1-2 (Continued)

Policy	Project Consistency
PS Policy 2.7: Ensure projects include design features that promote safety and reduce criminal activity.	THE VILLAGES OF SAN JACINTO Section V, Design Guidelines, includes numerous design features that promote safety and reduce criminal activity. These design features include special considerations for the siting of paseos and cul-de-sacs, the potential use of locked key or card gates at paseo/park connections, the lighting of house numbers, the orientation of alley-loaded or rear-load homes towards the adjacent paseo area, and more. Homes shall be oriented to face park areas, and to fencing material shall be carefully selected to ensure maximum visibility of the park from public areas. Common parking areas within the commercial, mixed-use, park, and school areas shall be well-lit for security purposes. THE VILLAGES OF SAN JACINTO is therefore consistent with this policy.
Noise Element: The Noise Element addresses noise sources in the community and identifies ways to reduce the impacts of these noise sources. The Noise Element contains policies and programs to achieve and maintain noise levels compatible with various types of land uses. The Element identifies those land uses that are sensitive to noise and assures that noise-generating land use are located so that they do not impact those sensitive areas.	
Noise Goal: Noise and Land Use Planning – <i>Minimize the effects of noise through proper land use planning and development techniques.</i>	
N Policy 1.1: Use the City's adopted noise/land use compatibility standards as a guide for future planning and development decisions.	THE VILLAGES OF SAN JACINTO incorporates several design elements to minimize noise impacts on sensitive receptors. A buffer is provided along Sanderson Avenue to minimize effects of traffic related noise on community residents, and on-site residential uses are buffered from the off-site Waste Water Treatment Facility and on-site mixed-use and commercial land uses. A noise analysis was conducted for THE VILLAGES OF SAN JACINTO and is summarized in the EIR accompanying this Specific Plan. As described in the EIR, this analysis evaluated potential noise impacts and provided mitigation to reduce levels to below the required CNEL for residential and non-residential land uses. With incorporation of these mitigation measures, no significant noise impacts will result upon implementation of THE VILLAGES OF SAN JACINTO, and the project is therefore consistent with this policy.
N Policy 1.2: Require noise control measures, such as berms, walls, and sound attenuating construction in areas of new development or rehabilitation.	
N Policy 1.3: When necessary, require buffer areas between noise sources and sensitive receptors.	
N Policy 1.4: Use creative techniques to mitigate potential noise incompatibilities, particularly in areas with a mixture of uses.	
Noise Goal: Transportation Related Noise – <i>Minimize the effects of transportation-related noise.</i>	
N Policy 2.1: Reduce transportation-related noise impacts to sensitive land uses through the use of noise control measures.	Where appropriate and necessary, THE VILLAGES OF SAN JACINTO provides buffers to minimize transportation-related noise impacts to sensitive land uses. In addition, the Specific Plan establishes planning and site design criteria that would result in the reduction of unwanted sound, to the maximum feasible extent. As described in detail in the EIR accompanying THE VILLAGES OF SAN JACINTO Specific Plan, a noise analysis was prepared for the project and provided mitigation to reduce levels to acceptable levels for sensitive uses. With mandatory compliance with these mitigation measures, no significant noise impacts will result upon implementation of THE VILLAGES OF SAN JACINTO, and the project is therefore consistent with this policy.
N Policy 2.2: Require sound-reduction design in development projects impacted by transportation-related noise, particularly along highways and major arterials.	

Table 5.1-2 (Continued)

Policy	Project Consistency
Housing Element: The Housing Element is a guide for housing within the City of San Jacinto. The Element provides an indication of the need for housing in the community in terms of affordability, availability, adequacy, and accessibility. The Element provides a strategy to address housing needs and identifies a series of specific housing programs to meet community needs. A detailed Housing Needs Assessment was prepared as part of the Housing Element update and serves as the technical background document to the Housing Element.	
Housing Goal: Provide Adequate Housing Sites – Provide Adequate sites for new residential construction to meet the needs of all segments of the community without compromising the character of the City.	
Housing Goal: Assist in Development of Housing – Assist in the development of a housing supply which is affordable to all segments of the community.	
H Policy 2.2: Provide adequate sites for a range of housing types and prices.	THE VILLAGES OF SAN JACINTO provides for a maximum of 1,329 homes in a variety of residential product types and styles and home sizes, including single-family homes on 4,000 s.f., 5,000 s.f., and 6,000 s.f. lots. This variety of residential housing products would appeal to homebuyers of different incomes and family sizes. These homes would be required to conform to the Design Guidelines included in Section V, ensuring the development of an attractive and safe community. THE VILLAGES OF SAN JACINTO is therefore is consistent with this policy.
H Policy 3.1: All for the development of housing affordable to all income groups by utilizing a variety of public and private efforts.	
H Policy 3.3: Promote the development of attractive and safe housing to meet community needs.	

City of San Jacinto Zoning Ordinance

The proposed Specific Plan includes a zone change for the property which would result in removing the existing C-2, R-1, R-2 (PUD) and R-3 zoning designations and application of a Specific Plan zoning designation to the entire site. The Villages of San Jacinto Specific Plan is generally consistent with the provisions of the General Plan and Zoning Ordinance which require initiation of Specific Plans for large-scale planned development. When adopted by legislative action, the Specific Plan document will serve both planning and regulatory functions for the proposed development. The intent of the Specific Plan zoning designation is to establish base zoning and applicable development standards specific to the defined project area to direct new growth and development in the process of implanting the General Plan. Adopted Specific Plan zoning and development standards will take precedence over the general standards of the Zoning Ordinance, except where the Specific Plan does not contain an applicable development standard, in which case the standards of the Zoning Ordinance apply.

Transportation Uniform Mitigation Fee 10-Year Strategic Plan (TUMF)

The WRCOG is a council which is comprised of members representing 15 local jurisdictions in western Riverside County, including the City of San Jacinto. The WRCOG functions to facilitate collective assessment of regional issues, such as traffic, by the various representative jurisdictions. In June 2004, WRCOG adopted the TUMF 10-Year Strategic Plan and Transportation Improvement Program Development Guidelines.

The purpose of the TUMF program is to establish a comprehensive funding source for infrastructure improvements to mitigate cumulative regional transportation impacts of new development on regional arterial highways (Parsons Brinckerhoff Quade & Douglas, Inc. 2004). The WRCOG has developed and implemented the TUMF program which requires new development to contribute revenues to partially fund improvements that will mitigate the transportation impacts of new developments. The proposed project would be required to contribute funds to the TUMF program based on the proposed number of residential dwelling and the applicable defined residential land use fee rate to ensure project compliance with the program. Additional discussion of the proposed project's compliance with applicable TUMF program requirements is included in *Section 5.9, Transportation, Circulation, and Access*.

South Coast Air Quality Management Plan

The South Coast Air Quality Management District Governing Board adopted the 2003 Air AQMP on August 1, 2003, and adopted the 2007 AQMP on June 1, 2007. The 2003 AQMP updates the attainment demonstration for the federal standards for O₃ and PM₁₀; replaces the 1997 attainment demonstration for the federal CO standard, provides a basis for a maintenance plan for CO for the future; and updates the maintenance plan for the federal NO₂ standard that the SCAB has met since 1992. The 2007 AQMP includes the same updates as the 2003 AQMP and also incorporates significant new scientific data, primarily in the form of updated emissions inventories, ambient measurements, new meteorological episodes and new air quality modeling tools. As part of the 2007 AQMP, the SCAQMD request that EPA "bump up" the O₃ nonattainment status from severe to extreme to allow additional time for the SCAB to achieve attainment with the federal standard. The additional time would provide for implementation of state and federal measures that apply to sources over which the SCAQMD does not have control. The 2007 AQMP has been approved by CARB but is undergoing review by EPA.

The South Coast AQMP includes a number of policies and measures to achieve federal and state standards for healthful air quality in the region. The City's General Plan strives to comply with the AQMP by planning land uses in relation to circulation systems, promoting commercial and industrial land uses with convenient access to transportation corridors, and encouraging a balance of land uses that facilitates a complimentary association between jobs and housing. Additional discussion of potential project air quality impacts and applicable AQMP program requirements is included in *Section 5.10*.

Would the project conflict with any applicable habitat conservation plan or natural community conservation plan?

Western Riverside County Multiple Species Habitat Conservation Plan

The Western Riverside County MSHCP is a comprehensive, long-term habitat conservation program which addresses the needs of a variety of biological resources. The primary goal of the MSHCP is to develop and manage sustainable preserve areas within existing and expanding urban areas. The preserve areas and management efforts contained in the final MSHCP will affect land use planning in the entire City of San Jacinto area. *Section 5.4, Biological Resources*, provides an in depth discussion of the project's relationship and consistency with the Western Riverside County MSHCP.

Would the project introduce a land use that is incompatible with existing or proposed surrounding land uses?

The proposed project would potentially result in significant urban/rural land use conflicts between the planned residential, commercial and mixed use development and existing agricultural uses surrounding the project site. Such conflicts could include fertilizer and pesticides application drift into the proposed residential area, residential complaints about noise and dust resulting from site preparation activities associated with adjacent agricultural activities, and increased trespassing onto agricultural lands. Additional discussion of potential project impacts associated with rural agricultural and urban residential land use conflicts is included in *Section 5.3, Agricultural Resources*.

Development of the proposed Villages of San Jacinto Specific Plan area is located immediately adjacent to the Hemet/San Jacinto Regional Water Reclamation Facility currently owned and operated by the Eastern Municipal Water District (EMWD). New residential development located near industrial-type facilities such as the wastewater treatment plant can result in potentially significant land use conflicts derived from residential complaints about noise and odors generated from plant operations. However, the proposed Specific Plan would designate land directly adjacent to the wastewater treatment facility as commercial and mixed-use business park. The commercial and mixed-use areas are buffered from on-site residential land uses by parks and intervening roadways. The nearest residential lots to the treatment plant would be located over 1,000 feet from the plant boundary. As such, the proposed Villages of San Jacinto development incorporates buffers into the development to minimize potential land use impacts between the proposed residential, commercial development, and the adjacent wastewater treatment facility. Additional discussion of potential land use conflicts associated with plant operation odors is included in *Section 5.10, Air Quality*, and plant operation noise is included in *Section 5.11, Noise*. Noise impacts potentially associated with traffic generated by the project are

not expected to result in significant noise impacts along access roads to and within the project area, as described in *Section 5.11*.

5.1.5 Mitigation Measures

The proposed project would not divide an established community or conflict with applicable plans, policies or regulations including the Western Riverside Multiple Habitat Conservation Plan. Therefore, no mitigation is proposed for these issues. Mitigation is provided in *Section 5.2, Landform Alteration and Aesthetics*, and *Section 5.11, Noise*, which requires notification of homeowners in the vicinity of the school site that there may be lighting impacts and noise associated with outdoor activities in the future should the school district proceed with plans for the proposed high school. Additionally, mitigation requiring notification for potential urban/rural land use conflicts between the project and existing agricultural uses is provided in *Section 5.3, Agricultural Resources*.

5.1.6 Residual Impacts/Level of Significance after Mitigation

Land use and planning impacts, outside of those related to noise, aesthetics, and agricultural resources (as indicated above in *Section 5.1.5*), have not been identified, therefore mitigation measures are not necessary.

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5.2 LANDFORM ALTERATION AND AESTHETICS

5.2.1 Introduction and Methodology

This section addresses the potential for the Villages of San Jacinto project to produce visual impacts or affect visual character upon implementation. The analysis primarily focuses on the large-scale configuration and distribution of land use types on the site, and architectural/design standards of the Specific Plan.

Existing visual conditions were compiled through a site visit and review of aerial photographs. Public vantage points near the proposed project site were identified and the existing visual character summarized. Analysis of impacts is based on an assessment of how the view would change in addition to an assessment of the project's compliance with viewshed and other aesthetic policies in the City's General Plan.

5.2.2 Existing Conditions

Existing Setting

The project site is located in the San Jacinto Valley. The San Jacinto Valley is a northwest/southeast trending geographic feature formed by an "elbow" in the San Jacinto Mountain Range. The face of the San Jacinto Range faces southwest along the easterly side of San Jacinto Valley; at the southern end of the San Jacinto Valley near the town of Hemet, the San Bernardino range swings westward and the face of the range is oriented northwest. On the westerly side of the San Jacinto Valley, the valley is defined by the Lakeview Mountains and Bernaconi Hills. Vistas of the surrounding mountain ranges are essentially available in all directions within San Jacinto and are an important component of the regional aesthetic landscape. The San Jacinto River flows in a generally northwest to southeast direction approximately 1.5 miles north of the project site. This river is a dry wash during most of the year except for short periods following substantial rainfall or snowmelt occurring in the San Jacinto Mountains. The river course is not visible from the project site.

The project site is oriented with a long axis approximately north/south. The project site is essentially flat with surface elevation ranging from approximately 1,455 feet above mean sea level (AMSL) along the northern edge to approximately 1,490 feet AMSL in the southeastern corner. By contrast, Mt. Rudolph (the highest peak in the Lakeview Mountains west of the site) is at elevation 2,649 AMSL. The Bernaconi Hills have a peak elevation of approximately 2,100 feet AMSL; Mt. Edna (a part of the San Bernardino Range north of the project) is at elevation 2,587 AMSL; San Jacinto Peak towers above the valley floor at approximately 10,830 feet AMSL. Given the elevation difference between the ground surface at the site and surrounding mountain features, background mountain views are currently available across the subject site

from the public roadways surrounding the site. Existing views from surrounding roadways are discussed in greater detail in the sub-section below.

Existing Visual Quality of Project Site

The visual character of the site itself can be described as primarily vacant, former agricultural land. Vegetation on site consists of weedy invasive species or natural vegetation that has accumulated since the majority of agricultural production was discontinued. Existing on-site improvements and activities include covered shade structures as part of a former cattle feed lot in the southern portion of the property, an abandoned house and scattered debris in the south-central portion of the site, primarily fallow field along the eastern property boundary, and scattered sod fields in the northern portions of the property. The aesthetic quality of the site itself would be considered low for the portions containing structural development and moderate for the cultivated agricultural portions of the site. However, as shown in the site photos below, cultivated agriculture is not highly visible from adjacent roadways.

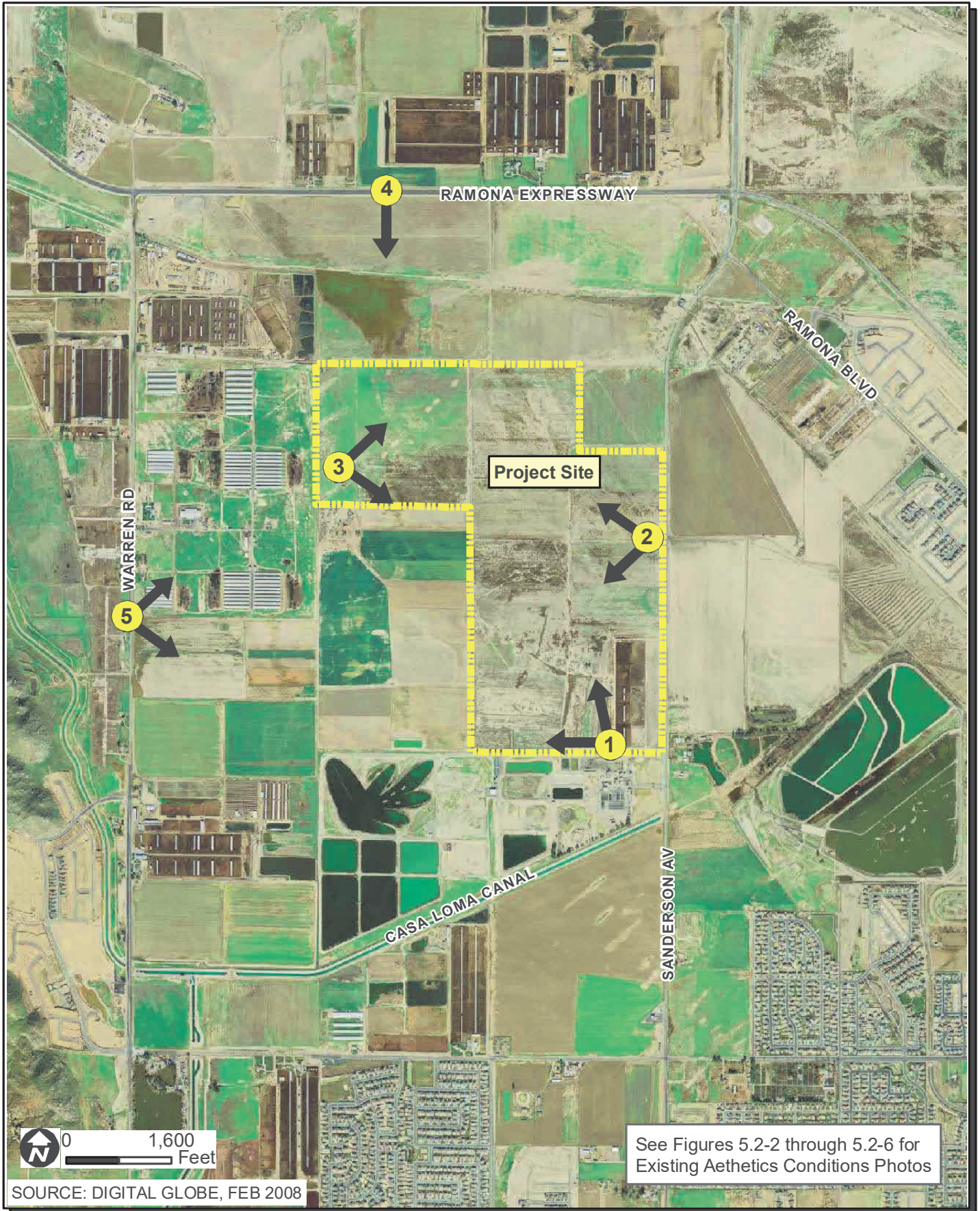
The site is essentially flat and there are no unique visual resources on site, such as tree stands, rock outcrops or water bodies. Therefore there are no current landforms of visual significance that exist on the site.

Figures 5.2-1 through 5.2-6 depict the existing visual quality of the project site as well as existing mountain views available from within and adjacent to the site.

Existing Views

The project site is generally visible from three existing primary viewpoints within the City of San Jacinto, each associated with a roadway. The project site is not visible from any existing roadway facility to the south of the subject site. Sanderson Avenue (east), Ramona Expressway (north), and Warren Avenue (west) each provide existing view opportunities of the project site. Each of the existing views described below are illustrated in *Figures 5.2-2 to 5.2-6*.

Sanderson Avenue is currently a heavily traveled regional roadway facility oriented north/south and located along the east side of the subject property. The roadway is at the same elevation as the site and views of the site are directly available to drivers on this roadway. The posted speed is 55 MPH and the site is approximately 6,000 feet (or roughly 1 mile) long; mobile viewers therefore have approximately 1 minute of exposure to direct views of the site along Sanderson Avenue when driving at the posted speed limit. Clearly visible elements of the property's visual character from this vantage (*Figures 5.2-2 and 5.2-3*) include covered shade structures associated with the former feed lot, an abandoned house to the west of former feed lot, and fallow agricultural land in the foreground with mountain vistas in the background to the west and north.



Villages of San Jacinto EIR
Existing Aesthetics Conditions Photo Index Map

**FIGURE
 5.2-1**

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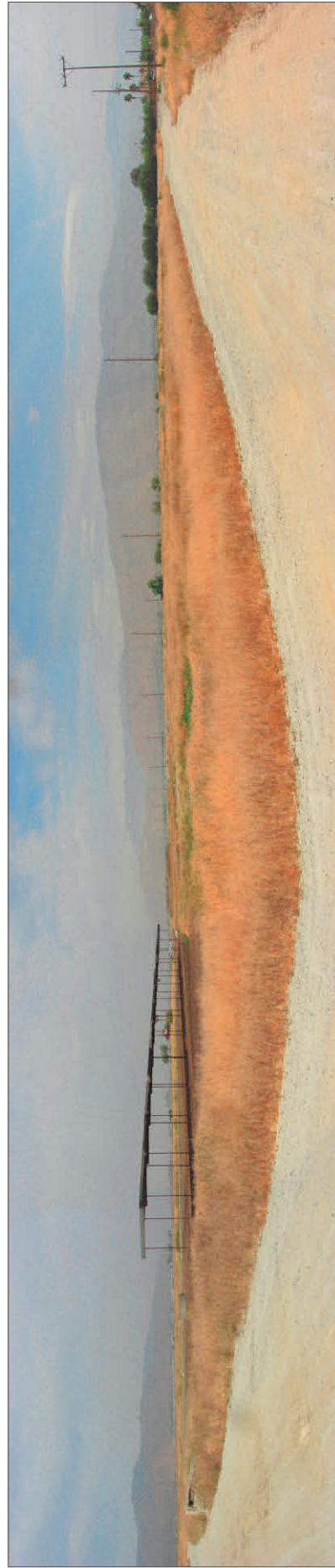


Photo 1: View from southern property boundary facing west to north.

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Photo 2: View from Sanderson Avenue facing west.

FIGURE
5.2-3

Villages of San Jacinto EIR
Existing Aesthetics Conditions

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Photo 3: View from western property boundary facing east.

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Photo 4: Existing View from Ramona Expressway South Across Subject Property

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Photo 5: View from Warren Avenue facing east.

FIGURE
5.2-6

Villages of San Jacinto EIR
Existing Aesthetics Conditions

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Ramona Expressway is currently a heavily traveled regional roadway facility oriented roughly east/west and located approximately one half mile to the north of the project's northern property boundary. At this vantage distance, the site is primarily a component of the background vista which is subordinate to the mountains (San Jacinto Range). The posted speed is 65 MPH and the site is approximately 4,800 feet wide; mobile viewers therefore have approximately 1 minute of exposure to distant views of the site along Ramona Expressway while driving at the posted speed limit (*Figure 5.2-5*). The existing on-site structures are barely visible from this vantage point, and would probably not be noticed by a mobile viewer.

Warren Avenue is currently a heavily traveled regional roadway facility oriented north/south and located approximately one half mile to the west side of the subject property. At this vantage distance, the site is again primarily a component of the background vista, which is subordinate to the mountains (San Bernardino Range and San Jacinto Mountains). The posted speed is 45 MPH and the site is approximately 6,000 feet (or roughly one mile) long; however, structures on the property immediately adjacent to the west side of the project site occupy about two thirds of the length of the project site. Therefore, distant views from Warren Avenue to the site are available roughly along the southern-most 2,000 feet of the property. This one glimpse of the site, at 45 MPH would equate to about 0.5 minute for the mobile viewer (*Figure 5.2-6*). The existing improvements on the property (i.e., covered shade structures and abandoned house) are barely visible and are completely subordinate to the background mountain views.

Figure 5.2-4 depicts an internal view from the northwest corner of the subject property facing east. Primary views from this location include fallow agricultural land in the foreground; sod fields that can be seen in the mid-foreground, scattered in the distance adjacent to Sanderson Avenue; and the dominant view is of the San Jacinto Mountains in the background.

Applicable Visual Policies

City of San Jacinto General Plan

The current City of San Jacinto General Plan was adopted May 4, 2006. The General Plan is the primary long-range planning document that guides growth and development in San Jacinto. There are a number of goals and policies in the Land Use Element and Resource Management Element that are relevant to visual resources as described below.

Land Use Element

The following goals and policies relate to maintaining and enhancing the visual character of the community and surrounding scenic vistas.

- Land Use Goal 2 Manage and direct growth so that the community and its neighborhoods are protected and enhanced.
- Policy 2.1* Assure that new development is complementary to the existing character of the City.
- Policy 2.7* Locate retail and commercial land uses along major circulation routes at major intersections where there is maximum access and visibility.
- Land Use Goal 6 Preserve and protect the City's cultural, historic, agricultural, and visual resources.
- Policy 6.7* Preserve and enhance public views of the mountains and hillsides and other scenic vistas.
- Policy 6.10* Promote the maintenance of private and public properties to enhance the visual appearance of the community.
- Land Use Goal 9 Encourage thoughtful community design that enhances San Jacinto's quality of life.
- Policy 9.1* Ensure new development is compatible with its natural surroundings and the built environment in terms of architecture, scale, grading and massing.
- Policy 9.6* Require the use and maintenance of extensive landscaping in new development and redevelopment projects to beautify the surroundings, screen outdoor uses, provide shade, establish pedestrian paths, buffer incompatible land uses and provide visual interest.
- Policy 9.8.* Develop and enforce development standards and design guidelines that provide clear yet flexible direction for achieving quality community design in new development and redevelopment projects throughout the community.

Resource Management Element

Resource Management Goal 3 Prevent incompatible development in areas that should be preserved for scenic, historic, conservation, mineral extraction, or public safety purposes.

Policy 3.1: Ensure incompatible development is avoided in those areas that are designated for scenic, historic, conservation, mineral extraction, or public safety purposes.

5.2.3 Significance Criteria

Based on the criteria identified in Appendix G of the CEQA Guidelines, the proposed project would have a significant impact on landform alteration and aesthetics if it:

1. Has a significant adverse effect on a scenic vista
2. Substantially damages scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway
3. Substantially degrades the existing visual character or quality of the site and its surroundings
4. Creates a new source of substantial light or glare that would adversely affect day or nighttime views in the area.

5.2.4 Impacts

The proposed Specific Plan contains several aesthetic features that have been assumed as part of the project and therefore shape the following impact analysis.

Applicable Visual Policies

An assessment of the project's relationship to visual resource policies in the General Plan is summarized below in *Table 5.2-1, Consistency Determinations for General Plan Policies*.

**Table 5.2-1
Consistency Determinations for General Plan Policies**

Policy	Consistency Determination
General Plan Land Use Element	
Land Use Goal 2: Manage and direct growth so that the community and its neighborhoods are protected and enhanced.	
Policy 2.1: Assure that new development is complementary to the existing character of the City.	The Specific Plan sets forth the architectural and site design guidelines for the project, which ensures consistent high quality development that reflects the scale and development intensity of the community while allowing for flexibility in design. Therefore, the project is consistent with this policy.
Policy 2.7: Locate retail and commercial land uses along major circulation routes at major intersections where there is maximum access and visibility	The commercial portion of the project will be located adjacent to Sanderson Avenue, a major entry point into the City where it intersects with the future Bridge Street, which is one of the main project access points. Therefore, the project is consistent with this policy.
Land Use Goal 6: Preserve and protect the City's cultural, historic, agricultural, and visual resources.	
Policy 6.7: Preserve and enhance public views of the mountains and hillsides and other scenic vistas.	Mountain views are currently afforded across the site from public roadways in the project vicinity. Some lower mountain views may be temporarily obstructed by the project in some areas. Although there may be brief, interrupted views for passing motorists, there will be no permanent view blockage from surrounding areas.
Policy 6.10: Promote the maintenance of private and public properties to enhance the visual appearance of the community.	The project will provide a significant enhancement to the community by utilizing a variety of compatible architectural styles, and specific standards and design guidelines for each Planning Area. It will also include extensive landscape treatments along adjacent highways and internal streets as well as the paseo walkways between land uses.
Land Use Goal 9: Encourage thoughtful community design that enhances San Jacinto's quality of life.	
Policy 9.1: Ensure new development is compatible with its natural surroundings and the built environment in terms of architecture, scale, grading and massing.	The project Specific Plan establishes compatible design guidelines, including landscape design for roadways, parks, and other common use areas, and architectural guidelines for all residences, commercial and mixed-use development. These guidelines will ensure that each of the project components relate to one another as well as to surrounding land uses.
Policy 9.6: Require the use and maintenance of extensive landscaping in new development and redevelopment projects to beautify the surroundings, screen outdoor uses, provide shade, establish pedestrian paths, buffer incompatible land uses and provide visual interest.	The project Specific Plan establishes landscaping design guidelines that provide a variety of landscape treatments along adjacent highways and internal streets, which include planted medians, parkway trees, shrubs, and groundcovers. There will also be landscaped walkways, drainages, and parks, which separate the various land uses.
Policy 9.8: Develop and enforce development standards and design guidelines that provide clear yet flexible direction for achieving quality community design in new development and redevelopment projects throughout the community	The Specific Plan Design Guidelines for architecture and landscaping ensure consistent development standards throughout the project and will therefore be consistent with this policy.

Would the project have a significant adverse effect on a scenic vista?

The General Plan identifies hillside and mountain views as significant resources which should be protected and enhanced. Views to mountain backdrops/background are currently available across the site from existing roadways west, north, and south of the site. Due to the distance of the site from Ramona Expressway and Warren Road, future structural development of the Villages of San Jacinto would not physically obstruct the distant "background" views of the San Bernardino or San Jacinto mountain ranges from these roadways. The skyline and surrounding rural landscape is typical of what motorists experience as they travel along the adjacent roadways to the project site. However, development of the project may result in partial obstruction of existing lower mountain views for auto travelers along Sanderson Avenue, although this would be perceived only for a short distance, as views of the distant mountains would open up again once they have driven by the development. The project would not obstruct views of the surrounding mountains as seen from any nearby parks, trails, or other recreational uses, as these types of uses are not found in close proximity to the project site. Consequently, the proposed development, including the required 11-foot sound barrier along Sanderson Avenue (see *Section 5.11.5, Mitigation Measures, Mitigation Measure 5.11-a*), will not result in a significant visual impact to the existing views of the surrounding mountain backdrops. However, in order to soften the potential visual monotony of a continuous 11-foot wall along Sanderson Avenue, the wall will be constructed atop a landscaped berm of varying heights between 3 to 5 feet high, and would have extensive landscaping between the street and wall to help minimize any perceived visual impact of the wall. Therefore, the wall, combined with the berm will constitute an 11-foot sound barrier. According to the Specific Plan, this project frontage along Sanderson Avenue will include a 6-foot meandering sidewalk within a 16-foot landscaped parkway that features clusters of palm trees, pine trees, background shrubs and other shrub and ground cover plantings. The project site is not located within or adjacent to a State Scenic Highway (<http://www.dot.ca.gov>), and the project would not have a significant adverse visual impact on existing residences.

The project will include an extensive system of parks and paseos along with landscaping on major internal and adjacent roadways that will provide a consistent plant theme throughout the project. These elements along with the other open space enhancements as described above will result in a net visual improvement of the project site that provides a high quality aesthetically attractive development. Therefore, the project will not have a significant adverse impact on a scenic vista and no mitigation measures are required.

Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

State Highway 74, which is approximately four miles south of the project site, is listed as an eligible but not officially designated State Scenic Highway on the California Scenic Highway Mapping System (http://www.dot.ca.gov/hq/LandArch/scenic_highways/index.htm) in the

project vicinity. State Highway 74 is an Officially Designated State Scenic Highway approximately 5.5 miles southeast of the project site where it descends from the San Jacinto Mountains. However, due to the distance from this highway and intervening uses, the proposed project will not be visible. The proposed project does not currently support rock outcroppings or trees, and therefore would not involve disturbance of any trees, rock outcroppings or historic buildings, and would not damage a scenic resource.

Would the project substantially degrade the existing visual character or quality of the site and its surroundings?

Visual Quality of Site

The existing visual quality of the site varies from very low, for those portions with structures or other improvements, to moderate, for those areas employed for grass sod cultivation. However, the most prominent visual feature of the project site, where it is most visible along Sanderson Road, is vacant agricultural land consisting of weedy invasive species that have accumulated since the majority of agricultural production was discontinued. The cultivated agricultural portions are not highly visible from adjacent roadways. Therefore, the overall visual quality of the project site itself is considered low.

Implementation of the Villages of San Jacinto project would result in the development of the site with urban uses and structures including commercial, residential, and school buildings. The character of the site will be changed from one of mixed agriculture and fallow agriculture fields to one of a suburban/developed nature. However, the proposed project includes five parks totaling approximately 40 acres, including three public parks and two private neighborhood parks that provide a significant open space buffer among developed areas. Other open space amenities include an 11-acre lake and associated swim lagoon and beach area as well as a system of landscaped trails or "paseos" that serve as pedestrian linkages between land uses. There will also be extensive landscape treatments along adjacent highways and internal streets, which include planted medians, parkway trees, shrubs, and groundcovers, which will enhance the roadways and provide further visual contrast between proposed uses. Another feature that provides visual transition is a vegetated detention basin/drainage channel system along the western perimeter of the project site. The proposed system of open spaces would provide both on-site and off-site visual benefits to compensate for the loss of existing open space character of the site and surroundings, and would not conflict with the planned residential, commercial and open space uses in the adjacent community.

The project Specific Plan establishes compatible design guidelines including landscape design for roadways, parks and other common use areas and architectural guidelines for all residences, commercial and mixed-use development. These guidelines will ensure consistent development standards throughout the project that will not result in substantially degrading the existing visual

character or quality of the site and its surroundings. As discussed in Section 3.0, Project Description, the project will result in up to 1,329 low and medium density single-family residences, 22.7 acres of commercial uses, and 26.3 acres of mixed-use development. The residences will have a variety of architectural styles and will vary between one and two stories up to a maximum height of 35 feet. Architectural design guidelines will also be used to provide direction and inspiration for final design of the commercial and mixed use portions of the project. Building masses will be clustered to avoid long straight building facades and variation of building heights up to a maximum height of 35 feet will be required. Approval and implementation of the Specific Plan shall constitute compatibility with existing visual character, and no further mitigation measures are required.

Would the project create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?

Light and Glare

The project would introduce additional night lighting within the project vicinity as well as potential new sources of glare (i.e., glass and reflective exterior surfaces). Particularly the commercial components of the site have the potential to produce significant night lighting impacts upon adjacent uses in the vicinity as well as proposed residential land uses within the project itself. Additionally, the project will require street lighting, trail lighting, and lighting associated with outdoor recreational activities. The Specific Plan requires that there are uniform lighting standards throughout the project and that lighting along trails shall be a minimum of 20-feet from rear or side yards to reduce light spill-over effects. All exterior lights are required to be shielded and focused to minimize spill light into the night sky or adjacent properties. Should Planning Area 14 be purchased by the San Jacinto Unified School District for development as a high school, any potential light or glare impacts would need to be addressed by the School District in the course of their environmental compliance for that project. However, a mitigation measure has been added (see *Section 5.2.5, Mitigation Measures, Mitigation Measure 5.2-b*) which requires notification of homeowners in the vicinity of the school site that there may be lighted ball fields in the future should the school district proceed with plans for the proposed high school. Metal or other reflective exterior surfaces and finishes within the commercial components of the site could create new sources of light or glare resulting in significant glare impacts for adjacent residential, park, and agricultural uses. In order to reduce this potential impact to a less than significant level, mitigation is provided (see *Section 5.2.5, Mitigation Measures, Mitigation Measure 5.2-a*).

5.2.5 Mitigation Measures

- 5.2-a** To avoid light and glare impacts, future submittals for commercial portions of the project development shall be required to prepare a photometric lighting plan. The lighting plan shall demonstrate that project lighting is shielded from surrounding properties and that only the minimum amount of lighting required for safety purposes is provided to avoid adverse effects on surrounding areas. In general, lighting fixtures shall be shielded downward and away from the adjacent residential areas and public roadways. Commercial development plans shall also be reviewed by the City to ensure the avoidance of substantial areas of reflective surfaces for building exteriors.
- 5.2-b** A Notice-to-Property Owner shall be recorded on a separate buyer information sheet with the final map providing notice to potential future property owners in the vicinity of the school site (i.e., Planning Areas 1, 3, and 19) that there may be lighted ball fields in the future should the school district proceed with plans for the proposed high school.

5.2.6 Residual Impacts/Level of Significance after Mitigation

With the application of the above mitigation measure, project impacts related to light and glare would be reduced to levels below significance. No significant impacts related to aesthetics, visual conditions, or landform modification have been identified.

5.3 AGRICULTURAL RESOURCES

5.3.1 Introduction and Methodology

This section describes existing agricultural uses of the project site and discusses potential project impacts to local, regional, and statewide agricultural resources.

The character of existing agricultural uses of the subject site and surrounding areas was determined based on a field survey and review of aerial photography. In addition, State of California (2006) Resources Agency on-line mapping information was reviewed to assist in characterizing the agricultural resources of the site. Finally, the agricultural characteristics of the site as they relate to agricultural viability and importance as a significant agricultural resource were defined and analyzed utilizing the California Agricultural Land Evaluation Site Assessment (LESA) model (State of California 1997), included as *Appendix B*. The LESA model evaluates soil resource quality of the site, project site size, water availability, surrounding agricultural lands, and surrounding protected resource lands. These characteristics are then rated, weighed, and combined, resulting in a single numeric score that is the basis for making a determination of the project site's agricultural value, and thereby to identify the significance of potential project impacts of converting the agricultural land resources to other land uses. The LESA model is identified in the CEQA Guidelines as an optional methodology for addressing impacts to farmland and agricultural resources. Additional information regarding the LESA model is provided in *Section 5.3.4*.

5.3.2 Existing Conditions

Existing Land Uses

The 475.1-acre project site is located in the northwest portion of the City of San Jacinto in an area consisting primarily of rural agricultural uses. The project site has been used as pasture land and/or a farming operation, similar to surrounding properties, for over 100 years. The subject site formerly occupied predominantly by active agricultural cultivation in the form of turf farming with various support facilities, including roads, irrigation systems, and minor appurtenant buildings used for storage of farm materials and equipment. However, only a small portion of the project site is currently being used for turf farming, with the remainder being vacant and containing mostly weedy invasive plants or natural vegetation. In addition, the southeast portion of the site, approximately 16 acres, has been recently utilized as a feedlot (supporting an average of 500 head of cattle). Water resources used to sustain the existing agricultural operations is provided primarily as recycled water by the Eastern Municipal Water District (EMWD), which is supplemented by groundwater produced by three on-site wells for which there are no restrictions on private use. Currently, irrigation for the turf farm operation consists of a combination of 95%

reclaimed water and 5% groundwater. Water supply for the feedlot operation consists of groundwater produced by an on-site well.

Land uses north of the site continue to consist primarily of cultivated agricultural use in addition to duck ponds, the Colorado River Aqueduct, and the Ramona Expressway. Agricultural land uses occupy most areas directly west and east of the project site, including cultivated land and greenhouse operations, with the exception of rural residential development located just southeast of the project site and a residential neighborhood located northeast of the property where North Sanderson Avenue and the Ramona Expressway intersect. A municipal wastewater treatment plant owned and operated by EMWD is located directly south of the project site, and the San Jacinto Reservoir is located southeast of the property. The San Jacinto Valley has traditionally supported agriculture and rural residential land uses, but has recently been experiencing increased urbanization.

On-line mapping information posted by the State of California (2006) Resources Agency pursuant to the Farmland Mapping and Monitoring Program (accessed at www.conservation.ca.gov) indicates that the project site contains Prime Farmland, Unique Farmland, and Farmland of Statewide Importance and Local Importance defined as follows:

- Prime Farmland has the best combination of characteristics for producing crops. It produces sustained high yields when properly managed, and is not in or committed to urban development.
- Unique Farmland is other than prime farmland but capable of producing high-value crops.
- Farmland of Statewide or Local Importance does not qualify as Prime or Unique Farmlands, but is irrigated land determined to be important by state and local governments.

5.3.3 Significance Criteria

Based on the criteria identified in Appendix G of the CEQA Guidelines, the proposed project would have a significant impact on agricultural resources if it:

1. Would convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use
2. Would conflict with existing zoning for agricultural use, or a Williamson Act contract
3. Would involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use.

5.3.4 Impacts

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

The proposed project is located on a site that has been designated by the California Resources Agency as Prime Farmland, Unique Farmland, and Farmland of Statewide Importance. This impact is considered significant and is further quantified by use of the State of California (1997) Department of Conservation LESA model (see below).

Agricultural land throughout western Riverside County is under increasing pressure of conversion to urban uses. The proposed project would result in conversion of the entire project site, approximately 475.1 acres of land consisting of designated important agricultural resources, to urban-related uses.

Although analysis of agricultural impacts through use of the California Agricultural LESA model (State of California 1997) is not specifically tied to a significance criterion, the recent conversion of agricultural uses to urban land uses throughout the western Riverside County area is an issue of concern for many stakeholders. Therefore, in an abundance of caution, the LESA model is used for rating the relative quality of land resources based upon site-specific measurable features, such as soil resource quality, project site size, water availability, surrounding agricultural lands, and surrounding protected resource lands. The LESA method was developed by the Department of Conservation (in 1995), intended to provide CEQA lead agencies with an optional methodology to ensure that significant effects on the environment of agricultural land conversions are quantitatively and consistently considered in the environmental review process (Public Resources Code Section 21095).

The LESA model is composed of six different factors. Two Land Evaluation factors are based on measures of soil resource quality. Four Site Assessment factors provide measures of project size, water resource availability, surrounding agricultural lands, and surrounding protected resource lands. For a given project, each of these factors is separately rated on a 100-point scale. The factors are then weighted relative to one another and combined, resulting in a single numeric score for a given project, with a maximum attainable score of 100 points. It is the total project score that becomes the basis for making a determination of a project's potential significance, based upon a range of established scoring thresholds.

The LESA model worksheets are found in *Appendix B*. Using the LESA model, the Land Evaluation portion of the model equals 22.53, and the Site Assessment portion equals 38.93, for a total project score of 61.46. According to the LESA manual, a score of 60 to 79 points is considered significant unless either the Land Evaluation or Site Assessment subscore is less than

20 points. Because the Land Evaluation and the Site Assessment subscores (22.53 and 38.93, respectively) are both greater than 20, the overall score of 61.46 indicates that the agricultural lands of the project site are considered a significant resource and, therefore, conversion of the project site's agricultural lands would significantly impact the agricultural resources of the project site.

The proposed project would irreversibly convert land currently under agricultural production and identified as containing significant agricultural resources to urban uses and would contribute to incremental urbanization of a predominantly rural area sustaining existing agricultural land uses. As such, the proposed project would potentially result in a significant, unmitigable, adverse impact to agricultural resources of both local and regional importance. As discussed below in Section 5.3.6, Residual Impacts/Level of Significance after Mitigation, there are no feasible mitigation measures to reduce this impact below a level of significance.

In addition, development of the proposed project would potentially result in significant urban/rural land use conflicts between the planned development and existing agricultural uses surrounding the project site. Conflicts would potentially include fertilizer and pesticide application drift into the proposed residential area, residential complaints about noise, odor and dust resulting from site preparation activities associated with adjacent agricultural uses, and increased trespassing onto agricultural lands. Implementation of *Mitigation Measure 5.3-a*, identified in *Section 5.3.5, Mitigation Measures*, would serve to alleviate land use conflicts associated with new residential development and existing agricultural land uses. Further, fencing and vegetation set-backs contained in the Specific Plan will help to reduce potential inconsistencies with surrounding agricultural land. However, potentially significant impacts to sustained agricultural resources would result from the proposed project development, as the identified land use conflicts associated with urbanization of agricultural lands may ultimately result in making agricultural operations more difficult to sustain, and thereby more susceptible to conversion over time, resulting in cumulative impacts to agricultural resources of the area.

Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

The proposed project would not conflict with existing zoning for agricultural use. No portion of the project site is currently zoned for agricultural use; therefore, no conflicts are anticipated to occur with respect to the proposed residential conversion of the property and existing zoning designations. In addition, the site is not covered by special agricultural status, such as a Williamson Act contract. Therefore, no impacts related to agricultural zoning or a Williamson Act contract would occur.

Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use?

The project itself may contribute to surrounding lands being more susceptible to conversion over time, resulting in cumulative impacts to agricultural resources of the area.

5.3.5 Mitigation Measures

Project-Specific Mitigation Measures

5.3-a A Notice-to-Property-Owner shall be recorded on a separate buyer information sheet with the final map providing notice to potential future property owners of the proposed development that the property is located in an area of active agricultural land uses that may potentially result in inconvenience and/or discomfort associated with adjacent agricultural operations including noise, odors and dust generation, and chemical drift.

5.3.6 Residual Impacts/Level of Significance after Mitigation

The proposed project would result in the direct loss of agricultural land resources determined to be significant pursuant to the California Agricultural LESA model, and which are identified as important farmlands by the State of California (2006) Resources Agency Farmland Mapping and Monitoring Program. There are no identified mitigation measures that would substantially reduce the impacts associated with the permanent loss of the site's agricultural resources. The City's General Plan EIR (January 2006) discusses a number of reasons mitigation for loss of agriculture is infeasible. Rising land costs to replace agricultural lands, rising water costs, labor costs, urbanization and environmental regulations all contribute to ongoing conversion of farmland. Although the conclusion that agricultural preservation was infeasible for the above reasons was conducted several years ago, these factors are still prevalent and remain as constraining factors to agricultural conservation. Without property owner cooperation and substantial financial incentives, it is infeasible to provide permanent on or offsite mitigation to replace converted farmland. Mitigation measures for the proposed development have been identified to reduce the magnitude of significant impacts associated with potential land use conflicts resulting from development of the proposed residential development in an area supporting existing agricultural uses. However, a residual significant, unmitigable impact would remain due to the inherent incompatibility of agricultural and urban land uses, and due to the cumulative effects of pressure to convert adjacent agricultural lands associated with urban development encroachment into the predominantly rural project area.

Therefore, given the above considerations, potential project impacts to agricultural resources are considered significant and not fully mitigable. As such, pursuant to CEQA, approval of the proposed project is likely to result in significant unavoidable agricultural resource impacts and requires that the decision makers provide findings of overriding consideration of project benefits that make the significant effects acceptable.

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5.4 BIOLOGICAL RESOURCES

5.4.1 Introduction and Methodology

This section describes existing biological resources on the project site and discusses potential project impacts to resources. This analysis is based on the August 2005 Dudek and Associates Biological Resources Technical Report prepared for the project. This report is included as *Appendix C* to this EIR. Methods used to conduct the biological resources field reconnaissance and impact analysis are contained therein.

5.4.2 Existing Conditions

Setting

Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP)

The Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) is a comprehensive, multi-jurisdictional habitat conservation plan (HCP) focusing on conservation of species and their associated habitats in Western Riverside County. This plan is one of several large, multi-jurisdictional habitat-planning efforts in Southern California with the overall goal of maintaining biological and ecological diversity within a rapidly urbanizing region. The MSHCP will allow Riverside County and its cities to better control local land-use decisions and maintain a strong economic climate in the region while addressing the requirements of the state and federal Endangered Species Acts.

The MSHCP serves as an HCP pursuant to Section 10(a)(1)(B) of the federal Endangered Species Act of 1973, as well as a Natural Communities Conservation Plan (NCCP) under the NCCP Act of 2001. The MSHCP allows the participating jurisdictions to authorize "Take" of plant and wildlife species identified within the plan area. The United States Fish and Wildlife Service (USFWS) and California Department of Fish and Game (CDFG) have authority to regulate the take of threatened, endangered, and rare species. Under the MSHCP, the wildlife agencies have granted "take authorization" for otherwise lawful actions—such as public and private development that may incidentally take or harm individual species or their habitat outside of the MSHCP conservation area—in exchange for the assembly and management of a coordinated MSHCP conservation area.

The MSHCP is a "criteria-based plan" and does not rely on a hardline preserve map. Instead, within the MSHCP Plan Area, the MSHCP reserve will be assembled over time from a smaller subset of the Plan Area referred to as the Criteria Area. The Criteria Area consists of Criteria Cells (Cells) or Cell Groupings, and flexible guidelines (Criteria) for the assembly of conservation within the Cells or Cell Groupings have been developed for each Cell/Cell

Grouping. Cells and Cell Groupings also may be included within larger units known as Cores, Linkages, or Habitat Blocks.

The Villages of San Jacinto project is located within the San Jacinto Valley Area Plan of the MSHCP. A GIS overlay of MSHCP San Jacinto Valley Area Criteria Cells with the Villages of San Jacinto project boundary shows that the project lies outside of the Criteria Area with the exception of a small overlap of the southwestern portion of the site with Cells 2775 and 2878. This overlap is approximately 250 feet wide and extends approximately 3,240 feet along the western property boundary. This slight Cell overlap does not correspond to any observable change in site features such as biological resources or topography; the site is in active agriculture (turf grass farm) both within and outside the area of overlap. For this reason, it was agreed (personal communication, Ken Graff, Riverside Regional Conservation Authority) that the overlap is a map registration issue, and MSHCP Criteria for Cells 2775 and 2878 would not apply to the Villages of San Jacinto Project but rather to the adjacent parcels to the west (see *Figure 5.4-1, Project Relationship to Western Riverside County MSHCP*). A letter from Charles V. Landry, Executive Director of the Western Riverside County Regional Conservation Authority (RCA), dated November 17, 2008, provides written confirmation of the previous conversation with Mr. Graff. This letter and the letter from the City requesting the RCA's written confirmation is provided in *Appendix C*. However, certain plan-wide requirements would apply to the project, including habitat assessments/survey requirements for narrow endemic plant species and burrowing owl. The project has also been analyzed for consistency with MSHCP Section 6.1.2, Riparian/Riverine Resources.

Topography

The study area ranges from flat in the central and southern regions of the project site to gently sloping in the northeastern region just east of the proposed Odell Avenue. The highest elevational area on site is the western boundary of the site [approximately 1,480 feet above mean sea level (amsl)]; the lowest elevational area is on the north-central boundary of the site [approximately 1,460 feet amsl].

Soils

The project site consists of several soil categories. All of the soils developed in alluvium from granitic parent materials. Dello, Chino, and Grangeville soils are present in alluvial areas or on floodplains; Traver soils are present on valley plains and in basins. With the exception of Grangeville soils, these soils are all in shallowly-sloping areas (0%–5% slopes); Grangeville soils are sloped from 0%–15%. Dello and Chino soils are slowly permeable, while Grangeville and Traver soils are moderately well-drained. Traver soils are from slightly to strongly saline, and, in addition to other soil types not mapped on the project study area, are often associated with narrow endemic plant species.



Villages of San Jacinto EIR
Project Relationship to Western Riverside County MSHCP

FIGURE 5.4-1

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Vegetation Communities

Several native vegetation communities/land cover types as well as non-native/non-natural land covers are located on the project site. Wetland vegetation communities are also found on the project site. A total of nine vegetation communities were identified on the project site—six native and three non-native. The three non-native types include agriculture, ruderal land and disturbed/developed land. The native vegetation types include open water, freshwater marsh, southern willow woodland, disturbed herbaceous wetlands, cismontane alkali marsh, and intermittent unvegetated stream channel.

Wildlife Resources

Wildlife found in the project area includes species generally associated with the habitat types identified above. A complete list of observed and expected sensitive wildlife species is provided in *Appendix C* to this EIR.

Site Observations

Figure 5.4-2, Biological Resources Map, depicts resources observed and mapped on site during the January through August 2005 field visits to the site. It should be noted that the project site undergoes regular mechanical disturbance associated with the agricultural operations, therefore updated biological resource studies have not been prepared.

Vegetation Communities

The entire 475.1 acre site was surveyed for biological resources. This survey area includes developed lands associated with the existing agricultural operations on site in addition to remaining undeveloped/undisturbed portions of the site. *Table 5.4-1, Existing Biological Resources*, provides a summary of each type of vegetation community found on the project site. A description of each vegetation community is included in *Table 5.4-1*.

**Table 5.4-1
Existing Biological Resources**

Vegetation Community	Existing Acreage
Native Plant Communities/Land Cover Types	
Open Water	4.22
Freshwater Marsh	0.23
Southern Willow Woodland	0.07
Disturbed Herbaceous Wetlands	0.05
Disturbed Herbaceous Wetlands (CDFG jurisdiction only)	0.16
Cismontane Alkali Marsh	0.01
Intermittent Unvegetated Stream Channel	0.01
<i>Subtotal</i>	4.75

Table 5.4-1 (Continued)

Vegetation Community	Existing Acreage
Non-Native Habitat Types	
Agriculture	307.08
Ruderal	126.87
Disturbed/Developed	36.42
<i>Subtotal</i>	<i>470.37</i>
Total	475.12

Open Water

Open water (i.e., pond) is a type of aquatic area that typically lacks emergent vegetation but supports hydrophytic vegetation, such as mule fat scrub, southern willow scrub, and freshwater marsh around its margins. Ponds represent an important resource for a variety of migratory waterfowl and provide habitat for amphibians and numerous species of aquatic insects. Areas of open water, in concert with the surrounding riparian vegetation, may receive considerable use by species more typical of upland habitats during the drier times of the year.

Three areas of open water totaling 4.22 acres are present within the study area: two detention basins—one along the northern property boundary and one along the southwestern property boundary—and one shallow depression along the southeastern property boundary. At the time of the wetlands delineation, these areas were filled with water and supported a variety of waterfowl. Since the areas of open water on site have no connection to navigable Waters of the U.S., they are under the jurisdiction of CDFG and RWQCB only.

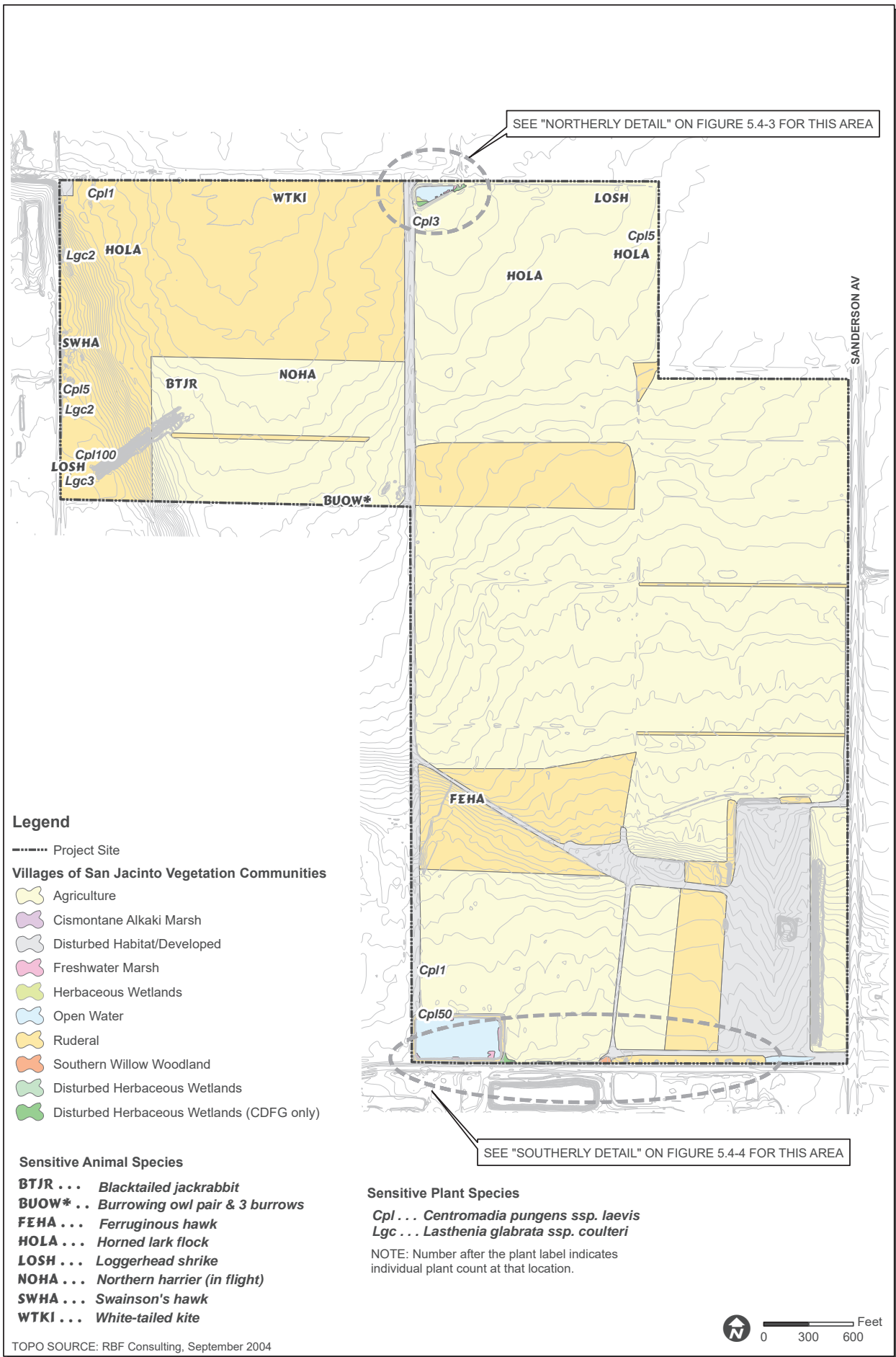
None of these areas mapped as open water on site would be classified as MSHCP riparian/riverine since they were artificially created.

Freshwater Marsh

Freshwater marsh is a wetland habitat type that develops where the water table is at or just above the ground surface, such as around the margins of lakes, ponds, slow-moving streams, ditches, and seepages. It typically is dominated by tall, emergent monocots, such as cattail (*Typha* sp.) and bulrush (*Scirpus* sp.).

Freshwater marsh on site is located around the perimeters of the detention basins and along the intermittent stream channel along the southern boundary of the site. This vegetation community occupies 0.23 acre and is dominated by cattails and bulrushes. Freshwater marsh on site is under the jurisdiction of CDFG and RWQCB only.

None of the areas mapped as freshwater marsh on site would be classified as MSHCP riparian/riverine since there were artificially created.



SEE "NORTHERLY DETAIL" ON FIGURE 5.4-3 FOR THIS AREA

SANDERSON AV

Legend

--- Project Site

Villages of San Jacinto Vegetation Communities

- Agriculture
- Cismontane Alkali Marsh
- Disturbed Habitat/Developed
- Freshwater Marsh
- Herbaceous Wetlands
- Open Water
- Ruderal
- Southern Willow Woodland
- Disturbed Herbaceous Wetlands
- Disturbed Herbaceous Wetlands (CDFG only)

Sensitive Animal Species

- BTJR** . . . *Blacktailed jackrabbit*
- BUOW*** . . . *Burrowing owl pair & 3 burrows*
- FEHA** . . . *Ferruginous hawk*
- HOLA** . . . *Horned lark flock*
- LOSH** . . . *Loggerhead shrike*
- NOHA** . . . *Northern harrier (in flight)*
- SWHA** . . . *Swainson's hawk*
- WTKI** . . . *White-tailed kite*

Sensitive Plant Species

- Cpl** . . . *Centromadia pungens ssp. laevis*
- Lgc** . . . *Lasthenia glabrata ssp. coulteri*

NOTE: Number after the plant label indicates individual plant count at that location.

SEE "SOUTHERLY DETAIL" ON FIGURE 5.4-4 FOR THIS AREA

TOPO SOURCE: RBF Consulting, September 2004



Villages of San Jacinto EIR
Biological Resources Map **FIGURE 5.4-2**

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Southern Willow Woodland

Southern willow woodland is similar to the southern willow scrub plant community described by Holland (1986) as "dense, broadleaved, winter-deciduous riparian thickets dominated by several species of *Salix* [willows], with scattered emergent *Populus fremontii* [Freemont cottonwood] and *Platanus racemosa* [western sycamore]." The understory is usually arrested in growth owing to the dense canopy. The 0.07-acre area of the study site mapped as southern willow woodland consists of a small group of larger, more mature Goodding's black willows (*Salix gooddingii*) with an open understory. Soils within this vegetation type are hydric (Chroma 1), and evidence of hydrology exists as water stained leaves and drainage patterns. This habitat is fed by two 1-foot pipes that outlet onto the property along the southern boundary. However, since this wetlands habitat type is not connected to navigable Waters of the U.S., it is not under the jurisdiction of the ACOE. Southern willow woodland on site is under the jurisdiction of CDFG and RWQCB only.

None of the areas mapped as southern willow woodland on site would be classified as MSHCP riparian/riverine since there were artificially created.

Disturbed Herbaceous Wetlands

Herbaceous wetlands were mapped in association with the northern detention basin on site. Herbaceous wetlands support a predominance of low, herbaceous, hydrophytic vegetation. Within this 0.05-acre habitat type on site, yellow nutsedge (*Cyperus esculentus*), a hydrophytic species, dominates the cover. Drainage patterns are evident, and soils are considered hydric (Chroma 2 with mottles). This habitat type lacks a surface connection to navigable Waters of the U.S., however, and thus is under the jurisdiction of CDFG and RWQCB only.

Disturbed herbaceous wetlands were also mapped in an area dominated by the non-native perennial pepperweed (*Lepidium latifolium*). No indicators of hydrology are present, and soils are not hydric (Chroma 2 without mottles), so disturbed herbaceous wetlands on site are under the jurisdiction of CDFG only. A total of 0.16 acre of disturbed herbaceous wetlands are present on site.

None of the areas mapped as disturbed herbaceous wetlands on site would be classified as MSHCP riparian/riverine since there were artificially created.

Cismontane Alkali Marsh

According to Holland (1986), vegetation classified as cismontane alkali marsh occurs in areas of alkaline soils that are saturated or inundated during most of the year. Characteristic species often in cismontane alkali marsh include yerba mansa (*Anemopsis californica*), sedges, salt grass, rushes, alkali heath (*Frankenia salina*), cattails, salt marsh fleabane (*Pluchea purpurascens*), and

cattails. Species dominating the 0.01-acre patch of cismontane alkali marsh along the southern property boundary include salt grass, alkali-mallow (*Malvella leprosa*), and salt heliotrope (*Heliotropium curassavicum*).

None of the areas mapped as cismontane alkali marsh on site would be classified as MSHCP riparian/riverine since there were artificially created.

Unvegetated Intermittent Stream Channel

Unvegetated channel refers to the intermittent drainage connecting several small patches of wetlands vegetation south of the detention basin along the southern boundary of the site. Intermittent waters generally have a surface flow that, although not perennial, may be present for relatively long periods (greater than 24 hours) following rainfall events. Intermittent waters on site vary from two to three feet in diameter and occupy 0.01 acre of the project site. These channels are under the jurisdiction of CDFG and RWQCB.

None of the areas mapped as intermittent stream channel on site would be classified as MSHCP riparian/riverine since there were artificially created.

Agriculture

Agricultural lands, occupying 307.08 acres, compose the majority of the site. Most of the areas mapped as agriculture consist of an active turf-grass farming operation. A cattle feed lot, in the southeastern portion of the site, was also mapped as agriculture.

Ruderal

Ruderal habitat was mapped in areas not in active turf-farming operations which have been allowed to recolonize with weedy, non-native vegetation. Ruderal areas on site occupy 126.87 acres and are dominated by weedy species such as henbit (*Lamium amplexicaule*), knotweed (*Polygonum arenastrum*), red-maids (*Calandrinia ciliata*), rescue grass (*Bromus catharticus*), shepherd's purse (*Capsella bursa-pastoris*), (*Sisymbrium irio*), sow thistles (*Sonchus* spp.), short-podded mustard (*Hirschfeldia incana*), cheeseweed (*Malva parviflora*), and common purslane (*Portulaca oleracea*).

Disturbed/Developed

Areas mapped as disturbed or developed refer to areas lacking vegetation, such as dirt roads, graded areas, structures, and buildings. A total of 36.42 acres of disturbed/developed area is present within the study area.

Wildlife Diversity

A total of 79 species of both non-sensitive and special-status wildlife was observed or detected on site. The complete list of wildlife species identified is provided as *Appendix B* of the Biological Resources Technical Report, included as *Appendix C* to this EIR.

Birds

Sixty bird species were observed during the survey visits (*Appendix B*). The diversity of birds is limited due to the high levels of agriculture and relatively low habitat quality, or lack of native habitats throughout the study area. The habitats and land covers within the study area provide foraging habitat for a variety of special-status bird species such as the burrowing owl (*Speotyto [Athene] cunicularia hypugaea*) (which is a MSHCP survey species), white-tailed kite (*Elanus caeruleus*), red-tailed hawk (*Buteo jamaicensis*), red-shouldered hawk (*Buteo lineatus*), northern harrier, (*Circus cyaneus*), American kestrel (*Falco sparverius*) and horned lark (*Eremophila alpestris*). The ponds on site provide habitat for waterfowl including western grebe (*Aechmorphus occidentalis*), white-faced ibis (*Plegadis chihi*), northern shoveler (*Anas clypeata*), mallard (*Anas platyrhynchos*), lesser scaup (*Aythya affinis*), bufflehead (*Bucephala albeola*), ruddy duck (*Oxyura jamaicensis*), American coot (*Fulica americana*), common moorhen (*Gallinula chloropus*), least sandpiper (*Calidris minutilla*), and common snipe (*Gallinago gallinago*). A full list of species detected is presented in *Appendix B* to the Biological Resources Technical Report.

Reptiles and Amphibians

Two reptile species were observed on site: side-blotched lizard (*Uta stansburiana*) and western fence lizard (*Sceloporus occidentalis*). These species are not considered special-status. No amphibian species were observed during the survey; however, one or more of the following non-sensitive species may occur within the study area: garden slender salamander (*Batrachoseps attenuatus*), western toad (*Bufo boreas*) and Pacific treefrog (*Hyla regilla*). Habitat quality for reptiles and amphibians is low, and the diversity of these species is expected to be low because of the small amount of habitat available and the likely negative effects of the active agriculture on site.

Mammals

Nine mammal species, or their sign, were observed within the study area during the survey including: black-tailed jackrabbit (*Lepus californicus*), brush rabbit (*Sylvilagus bachmani*), desert cottontail (*Sylvilagus audubonii*), Botta's pocket gopher (*Thomomys bottae*), California ground squirrel (*Spermophilus beecheyi*), coyote (*Canis latrans*), striped skunk (*Mephitis mephitis*), bobcat (*Lynx rufus*), and domestic cattle (*Bos bovis*). Brush rabbit and black-tailed jackrabbit are considered special-status.

Invertebrates

Seven non-sensitive species of butterfly and one fairy shrimp species were recorded during surveys including: Sara orange-tip (*Anthocharis sara sara*), cabbage butterfly (*Pieris rapae*), common white (*Pontia protodice*), pygmy blue (*Brephidium exile*), West Coast lady (*Vanessa annabella*), red admiral (*Vanessa atalanta rubria*), painted lady (*Vanessa cardui*), and versatile fairy shrimp (*Branchinecta lindahli*).

Sensitive Biological Resources

Sensitive Habitats

Sensitive habitats are those that are considered rare within the region, support sensitive plant and/or wildlife species, function as corridors for wildlife movement, or are regulated by local, state or federal agencies. Habitat types found on site that are considered sensitive include open water, freshwater marsh, southern willow woodland, disturbed herbaceous wetland, cismontane alkali marsh and intermittent unvegetated stream channel.

MSHCP Riparian/Riverine Areas, Vernal Pools and Fairy Shrimp Habitat

No MSHCP riparian/riverine areas or vernal pools were located on site. However, some water resources on site were initially determined potentially suitable for threatened or endangered species of fairy shrimp; therefore, focused vernal pool branchiopod (i.e., fairy shrimp) surveys were conducted. No sensitive species of fairy shrimp were found on site (see *Table 5.4-2, Jurisdictional Waters (Including Wetlands) Present on the Villages of San Jacinto Project Site*).

Table 5.4-2
Jurisdictional Waters (Including Wetlands)
Present on the Villages of San Jacinto Project Site

Plant Community	Area (Acres)	MSHCP Riverine/Riparian?	RWQCB- and/or CDFG-jurisdictional
Freshwater Marsh	0.23	No	Both RWQCB and CDFG
Southern Willow Woodland	0.07	No	Both RWQCB and CDFG
Herbaceous Wetlands	0.03	No	Both RWQCB and CDFG
Disturbed Herbaceous Wetlands	0.02	No	Both RWQCB and CDFG
Disturbed Herbaceous Wetlands	0.16	No	CDFG only
Intermittent Unvegetated Ephemeral Stream Channel	0.01	No	Both RWQCB and CDFG
Open Water	4.22	No	Both RWQCB and CDFG

These areas are also under the jurisdiction of wetlands agencies as discussed below.

Jurisdictional Waters

Since none of the wetlands or non-wetlands waters on site show a surface connection with "navigable Waters of the U.S.," none of these areas are under the jurisdiction of the U.S. Army Corps of Engineers (ACOE). All of these areas are under the jurisdiction of both RWQCB and CDFG, or, in the case of some areas of disturbed herbaceous wetlands, CDFG only (see *Table 5.4-2, Jurisdictional Waters (Including Wetlands) Present on the Villages of San Jacinto Project Site*). A total of 4.22 acres of open water, 0.23 acre of freshwater marsh, 0.07 acre of southern willow woodland, 0.05 acre of herbaceous wetlands (including 0.02 acre of disturbed herbaceous wetlands), 0.01 acre of cismontane alkali marsh, and 0.01 acre of intermittent unvegetated stream channel, all under the jurisdiction of RWQCB and CDFG, are present on site. An additional 0.16 acre of disturbed herbaceous wetlands under the jurisdiction of CDFG only is also present on site (See *Table 5.4-2 and Figures 5.4-2, 5.4-3, and 5.4-4*). Data station forms for the wetlands delineation can be found in *Appendix F* of the Biological Resources Technical Report (included in *Appendix C* to this EIR).

Sensitive Plants (MSHCP Narrow Endemic Plant Species)

Because the MSHCP includes coverage for certain plant species for which limited information was available at the time of creation of the MSHCP plan (generally plants of limited distribution considered narrow endemic plants), these plants were conditionally covered by the MSHCP. For these species, surveys are required within suitable habitat. The Villages of San Jacinto project is located within MSHCP Narrow Endemic Plant Species Survey Area (NEPSA) 3. Species of concern in NEPSA 3 are Munz's onion, San Diego ambrosia, many-stemmed dudleya, spreading navarretia, California Orcutt grass and Wright's trichocoronis. Focused surveys were conducted for these species. Because suitable habitat was present for the San Jacinto Valley crownscale, Parish's brittlescale, Davidson's saltscale, smooth tarplant, Coulter's goldfields, thread-leaved brodiaea, little mousetail and mud nama, focused surveys were also conducted for these species.

Prior to the survey, a search was also conducted using the CNDDDB (2004) to thoroughly assess the sensitive floral resources that may occur on site. Table 4 in the Biological Resources Technical Report (included as *Appendix C* to this EIR) lists potentially occurring sensitive species according to the detailed search of the CNDDDB and Dudek's knowledge of biological resources of this area. *Table 3* in the Biological Resources Technical Report (included as *Appendix C*) includes a list of all sensitive plant species, their sensitivity status, habitat associations and likelihood for presence on site. No sensitive plant species in the NEPSA 3 survey suite were located on site. Approximately 170 smooth tarplant individuals were observed on site as were approximately seven Coulter's goldfields individuals.

Sensitive Wildlife

Table 4 in the Biological Resources Technical Report (included in *Appendix C*) includes a list of all sensitive wildlife species, their sensitivity status, habitat associations and likelihood for presence on site. A summary of this table follows:

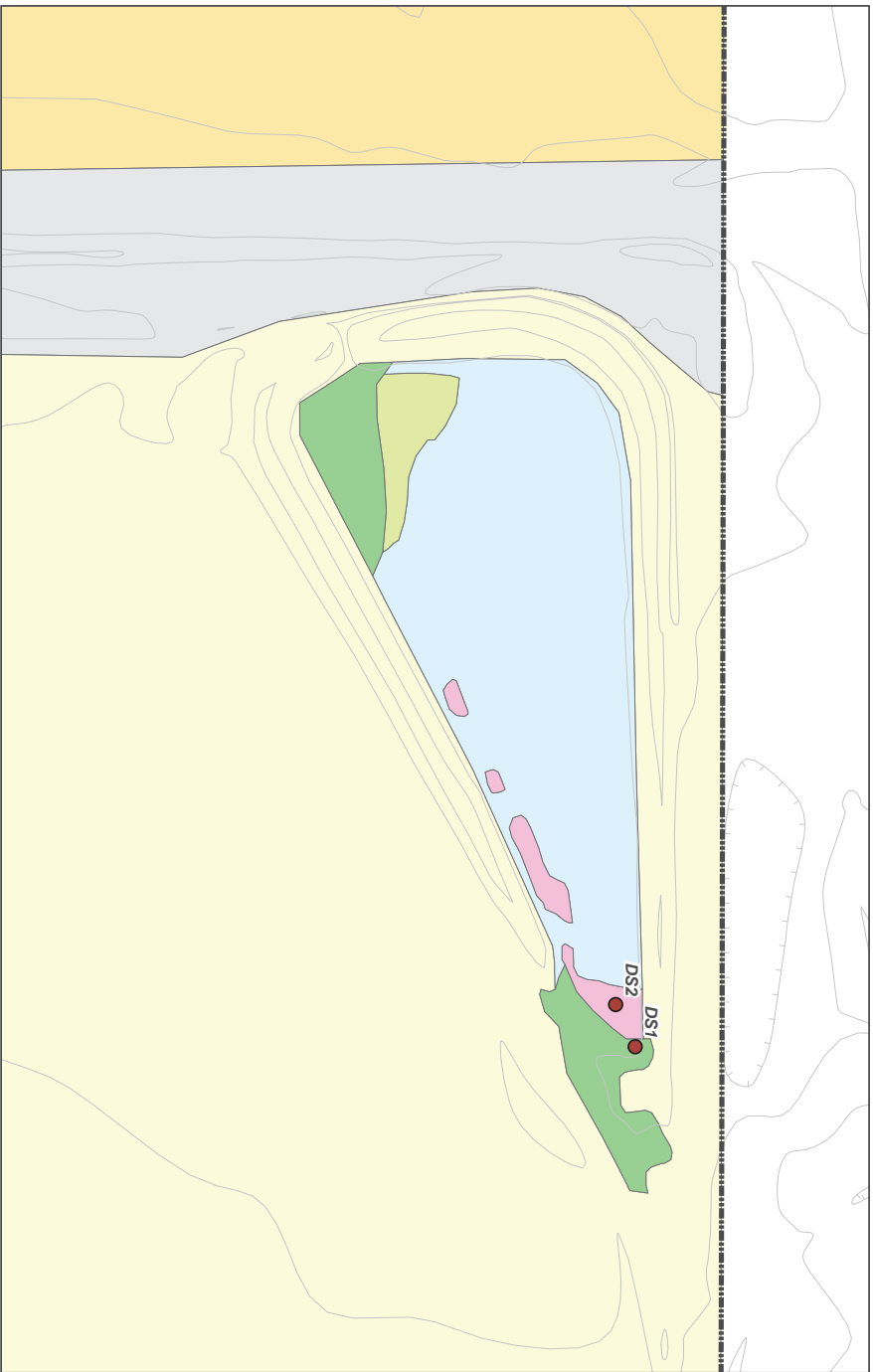
Reptiles and Amphibians

No sensitive reptiles or amphibians were observed on site, and no state- or federally-listed reptiles or amphibians are expected to occur. Table 5 in the Biological Resources Technical Report (included as *Appendix C*) includes all sensitive reptiles and amphibians that have the potential to occur within the project study area. Sensitive reptile and amphibian species classified as California Special Concern (CSC) Species and having at least a moderate potential to occur on site include the western newt and the western spadefoot toad.

Birds

Focused surveys for the western burrowing owl were conducted per MSHCP requirements for the project site, which is located within the Burrowing Owl Survey Area. One pair of burrowing owls and several burrows were observed during the surveys (*Figure 5.4-2*, see also Appendix E, Burrowing Owl Focused Survey Report, to the Biological Resources Technical Report, included as *Appendix C* to this EIR, for more information). The pair is assumed to be nesting on site. Two individuals of Swainson's hawk (*Buteo swainsoni*), a state-listed threatened species, were observed perched on trees within the site (*Figure 5.4-2*). Ferruginous hawk, northern harrier, and horned lark were observed foraging within the study area; the loggerhead shrike, a federal species of concern and CSC species, was observed nesting and foraging on site (*Figure 5.4-2*). White-tailed kite and turkey vulture were observed foraging on site (*Figure 5.4-2*). White-faced ibis was observed flying over the site during one survey visit. All of these species are covered species in the MSHCP.

In addition to these sensitive species observed, the great blue heron, prairie falcon, peregrine falcon, merlin and mountain plover could all utilize habitat on site during winter months. All of these species are covered species in the MSHCP. Western bluebird (sometimes considered sensitive by local environmental groups) also has a potential to forage on site during the winter months. Western bluebird is not a MSHCP covered species.



- Legend**
- Project Site
 - Villages of San Jacinto Vegetation Communities**
 - Agriculture
 - Cismontane Alkali Marsh
 - Disturbed Habitat/Developed
 - Freshwater Marsh
 - Herbaceous Wetlands
 - Open Water
 - Ruderal
 - Southern Willow Woodland
 - Disturbed Herbaceous Wetlands
 - Disturbed Herbaceous Wetlands (CDFG only)
 - Data Station Location



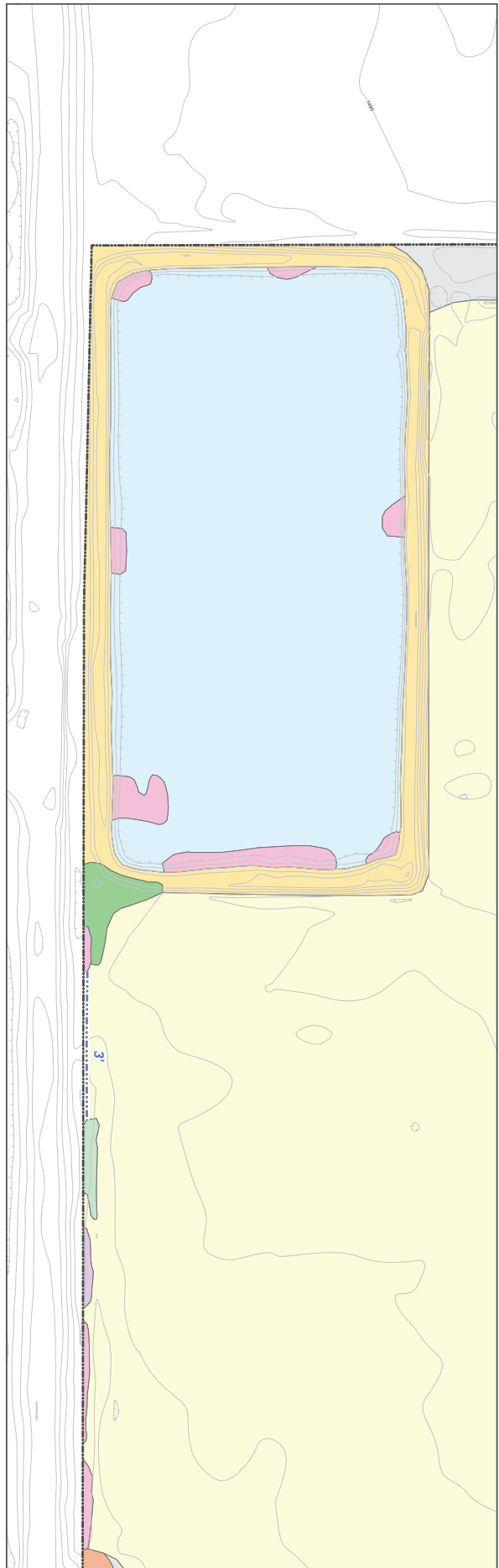
TOPO SOURCE: RBF Consulting, September 2004

Villages of San Jacinto EIR
 Northerly Detailed Area - Biological Resources Map

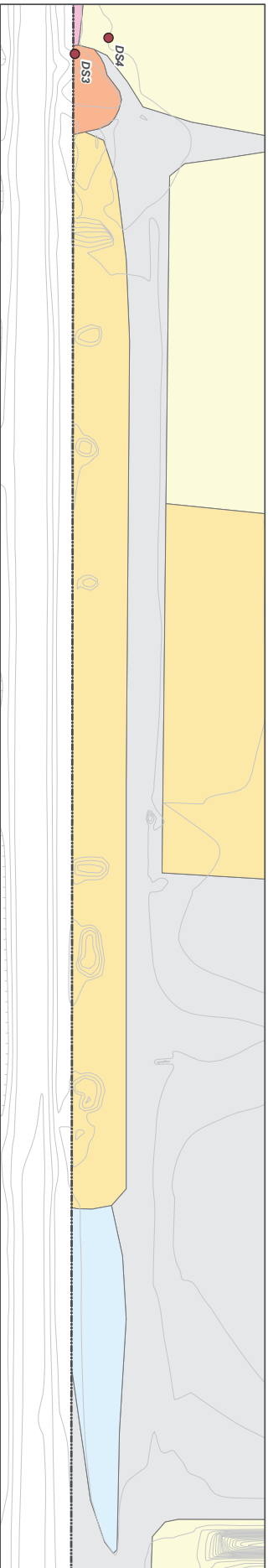
FIGURE
 5.4-3

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MATCH LINE - SEE BELOW



Villages of San Jacinto Vegetation Communities

-  Agriculture
-  Cismontane Alkali Marsh
-  Disturbed Habitat/Developed
-  Freshwater Marsh
-  Herbaceous Wetlands
-  Open Water
-  Ruderal
-  Southern Willow Woodland

-  Disturbed Herbaceous Wetlands
-  Disturbed Herbaceous Wetlands (CDFG only)

-  Project Site (Number indicates width of unvegetated channel.)
-  Waters of the U.S.
-  Data Station

TOPO SOURCE: RBF Consulting, September 2004



Villages of San Jacinto EIR
 Southerly Detailed Area - Biological Resources Map

FIGURE
 5.4-4

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Mammals

Three sensitive mammal species or their sign were observed on site: black-tailed jackrabbit, bobcat and coyote, all are covered species in the MSHCP. Three additional species were assumed to utilize habitat on site, although were not observed: long-tailed weasel, gray fox and brush rabbit. Brush rabbit is a covered species in the MSHCP while long-tailed weasel and gray fox are not.

Invertebrates

No sensitive invertebrate species were observed on site during general wildlife surveys or are expected to occur within the project study area due to lack of suitable habitat (see Table 5 in Biological Resources Report). The vernal pool branchiopod survey that was conducted during the 2004-2005 wet season was negative for sensitive branchiopod species (see Appendix D of the Biological Resources Technical Report [included as *Appendix C* to this EIR] for vernal pool branchiopod survey report).

Fish

No sensitive fish species were observed on site during general wildlife surveys or are expected to occur within the project study area due to lack of suitable habitat (see Table 5 in Biological Resources Technical Report, included as *Appendix C* to this EIR).

Wildlife Corridors and Habitat Linkages

Wildlife corridors are linear features that connect large patches of natural open space and provide avenues for the immigration and emigration of animals. Habitat linkages may function as wildlife corridors for some species and permanent habitat for others. Wildlife corridors and habitat linkages contribute to population viability in several ways: (1) they assure the continual exchange of genes between populations which helps maintain genetic diversity; (2) they provide access to adjacent habitat areas representing additional territory for foraging and mating; (3) they allow for a greater carrying capacity of species populations; and (4) they provide routes for colonization of habitat lands following local population extinctions or habitat recovery from ecological catastrophes (e.g., fires).

As illustrated in *Figure 3-3, Site Location Map*, the project study area is surrounded by agricultural lands to the north, east, and southwest; a water reclamation facility lies to the southeast of the site. Therefore, the project study area is not of high importance as a regional wildlife corridor or habitat linkage, i.e., it does not connect larger habitat areas or provide for regional wildlife movement. Furthermore, the site is not included a MSHCP Linkage or Constrained Linkage which has been identified constructed to maintain regional habitat linkages.

5.4.3 Significance Criteria

Based on the criteria identified in Appendix G of the CEQA Guidelines, the proposed project would have a significant impact on biological resources if it would:

1. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive or special status species in local or regional plans, policies or regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?
2. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Services?
3. Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption or other means?
4. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?
5. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?
6. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan or other approved local, regional, or state habitat conservation plan?

5.4.4 Biological Resource Impacts

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

No sensitive reptiles or amphibians were observed on site, and no state- or federally-listed reptiles or amphibians are expected to occur. Three sensitive mammal species or their sign were observed on site: black-tailed jackrabbit, bobcat and coyote, all are covered species in the MSHCP (see full discussion of consistency with the MSHCP below). No sensitive invertebrate species were observed on site during general wildlife surveys or are expected to occur within the project study area due to lack of suitable habitat. No sensitive fish species were observed on site during general wildlife surveys or are expected to occur within the project study area due to lack of suitable habitat.

Focused surveys for the western burrowing owl were conducted per MSHCP requirements for the project site. One pair of burrowing owls and several burrows were observed during the surveys. In order to avoid potential indirect impacts related to burrowing owls, mitigation is provided (see *Section 5.4.5, Mitigation Measures*, Mitigation Measure 5.4-b).

Two individuals of Swainson's hawk (*Buteo swainsoni*), a state-listed threatened species, were observed perched on trees within the site (*Figure 5.4-2*). Ferruginous hawk, northern harrier, and horned lark were observed foraging within the study area; the loggerhead shrike, a federal species of concern and CSC species, was observed nesting and foraging on site (*Figure 5.4-2*). White-tailed kite and turkey vulture were observed foraging on site (*Figure 5.4-2*). White-faced ibis was observed flying over the site during one survey visit. Because impacts to other sensitive wildlife species are covered under the MSHCP, no additional mitigation is proposed for impacts to these species. The project will therefore, not have substantial adverse impacts on any sensitive specieThe project would impact 100% of all onsite habitats, many of which are suitable habitat for special-status species regulated by local plans/policies (i.e., MSHCP) or the US Fish and Wildlife Service or California Department of Fish and Game. *Table 5.4-3, Impacts to Vegetation Communities and Land Covers*, provides a summary of on-site habitats.

Table 5.4-3
Impacts to Vegetation Communities and Land Covers

Vegetation Community/Land Cover Type	Impact Acreage
Native Plant Communities/Land Cover Types	
Open Water	4.22
Freshwater Marsh	0.23
Southern Willow Woodland	0.07
Herbaceous Wetlands	0.03
Disturbed Herbaceous Wetlands	0.18
Cismontane Alkali Marsh	0.01
Intermittent Unvegetated Stream Channel	0.01
<i>Subtotal</i>	4.75
Uplands	
Agriculture	307.08
Ruderal	126.87
Disturbed/Developed	36.42
<i>Subtotal</i>	470.37
Total	475.12

Impacts to upland habitat types are not considered significant from a biological resources perspective. Impacts to wetland habitats are considered significant (see below for a discussion of these impacts in the context of Section 404 of the Clean Water Act and the MSHCP).

Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?

Please see discussion below regarding the project's relationship with the MSHCP. Please see discussion above regarding the project's potential impacts to wetland or riparian habitats which may be protected under local or regional plans, policies regulations or by the California Department of Fish and Game or US Fish and Wildlife Service.

Would the project have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption or other means?

Direct impacts associated with the development of the proposed project were calculated and are shown in *Table 5.4-4, Impacts to Jurisdictional Waters (Including Wetlands) Present on the Villages of San Jacinto Project Site*. As is shown in the table, all biological resources within the project boundaries were considered 100% lost. This includes 4.22 acres of open water, 0.23 acre of freshwater marsh, 0.07 acre of southern willow woodland, 0.03 acre of herbaceous wetlands (including 0.18 acre of disturbed herbaceous wetlands) and 0.01 acre of intermittent unvegetated stream channel (see *Table 5.4-4*).

Table 5.4-4
Impacts to Jurisdictional Waters (Including Wetlands)
Present on the Villages of San Jacinto Project Site

Plant Community	Impact Area (Acres)	MSHCP Riverine/Riparian?	RWQCB and/ or CDFG-Jurisdictional
Freshwater Marsh	0.23	No	Both RWQCB and CDFG
Southern Willow Woodland	0.07	No	Both RWQCB and CDFG
Herbaceous Wetlands	0.03	No	Both RWQCB and CDFG
Disturbed Herbaceous Wetlands	0.02	No	Both RWQCB and CDFG
Disturbed Herbaceous Wetlands	0.16	No	CDFG only
Intermittent Unvegetated Ephemeral Stream Channel	0.01	No	Both RWQCB and CDFG
Open Water	4.22	No	Both RWQCB and CDFG

Impacts to these habitats are considered significant, therefore mitigation is provided (see *Section 5.4.5, Mitigation Measures*, Mitigation Measure 5.4.-a).

Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

As discussed above, under Existing Conditions, the project study area is surrounded by agricultural lands to the north, east, and southwest; a water reclamation facility lies to the southeast of the site. Therefore, the project study area is not of high importance as a regional wildlife corridor or habitat linkage, i.e., it does not connect larger habitat areas or provide for regional wildlife movement. Furthermore, the site is not included a MSHCP Linkage or Constrained Linkage which has been identified constructed to maintain regional habitat linkages. Therefore, the project will not have a significant impact on established migratory wildlife corridors.

Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

The project site is located within the MSHCP Planning Area. Consistency with this plan is discussed below. There are no other local policies ordinances protecting biological resources that would affect the proposed project.

Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan or other approved local, regional, or state habitat conservation plan?

As indicated in *Section 5.4.2, Existing Conditions*, the project has been determined not to be subject to reserve assembly criteria under the MSHCP due to the determination that cell designations located on the project site are the result of a mapping/registration error. Therefore, from a reserve assembly perspective (or absence of criteria area), the project is consistent with the MSHCP. That said, the project was also subject to additional MSHCP requirements, namely narrow endemic plant surveys, burrowing owl surveys, fairy shrimp surveys and riparian/riverine resources guidelines.

On-site water resources were also analyzed for consistency with riparian/riverine resources. While the project supports numerous wetland and water habitat, the man-made nature of these resources (largely for use in agricultural operations) eliminate them from being characterized as riparian/riverine per the MSHCP (see below for further discussion of MSHCP consistency). Therefore, the proposed project would be consistent with the MSHCP in terms of preservation of riparian/riverine resources. Suitable habitat on the project site was surveyed for sensitive fairy shrimp species. While common fairy shrimp species were observed in on-site habitat, sensitive fairy shrimp species were not observed. Therefore, the project would be consistent with MSHCP fairy shrimp survey and conservation directives. Suitable habitat was surveyed for all NEPSA 3 plant species. These species were not observed on site, therefore the project would not conflict

with MSHCP narrow endemic survey and conservation requirements. Two sensitive plant species, Coulter's goldfields (seven individuals) and smooth tarplant (approximately 170 individuals), were observed within the proposed impact area. Coulter's goldfields and smooth tarplant are covered species under the MSHCP but are not considered narrow endemic species by the MSHCP plan. These plants would be directly impacted by the proposed project. Impacts to these species would not be considered significant; the loss of 170 individuals of smooth tarplant and seven individuals of Coulter's goldfields are relatively small impacts to these species, which are fairly well distributed throughout the MSHCP plan area. In addition, these species are not MSHCP narrow endemic plants, and impacts to these species on the Villages of San Jacinto Project Site do not require any project-specific conservation measures such as salvaging for transplantation on another site. Because these species are covered under the plan, avoidance or impact minimization measures such as transplantation or seed salvaging is not necessary.

One pair of burrowing owls was observed on site. The project's impacts to these species are covered in accordance with the Species Conservation Objectives for the burrowing owl listed in the MSHCP. The project site does not support long-term conservation value for burrowing owl because of limited occupation of the species on the site. That said, in order to comply with the specific Burrowing Owl Survey Area provisions of the MSHCP, passive relocation to avoid direct impacts to known individuals will be required. In order to comply with MSHCP Burrowing Owl requirements, mitigation is provided. (see *Section 5.4.5, Mitigation Measures*, Mitigation Measure 5.4-b).

Adjacent MSHCP Lands

The Villages of San Jacinto Project is directly east of Criteria Cells 2775 and 2878. Although no development or establishment of MSHCP conservation areas has occurred as of yet in these criteria cells, some level of conservation may occur in the easternmost portions of the cells, directly adjacent to the Villages of San Jacinto Project site. Depending on proximity of these MSHCP conservation lands to the Villages of San Jacinto Project site, some level of edge effects on the conservation area may occur. Section 6.1.4 of the MSHCP, Guidelines Pertaining to the Urban/Wildlands Interface, addresses the indirect effects associated with locating development in proximity to the MSHCP conservation area and discusses measures to minimize these indirect effects. Several types of potential indirect effects on adjacent MSHCP conservation areas are discussed: drainage, toxics, lighting, noise, and exotic species.

Drainage

MSHCP requires that proposed developments in proximity to the MSHCP conservation area shall incorporate measures required through the NPDES requirements, to ensure that the quantity and quality of runoff discharged to the MSHCP conservation area is not altered in an adverse way. In particular, measures shall be put in place to avoid discharge of untreated surface runoff from developed and paved areas into the MSHCP conservation area. Stormwater systems shall

be designed to prevent the release of toxins, chemicals, petroleum products, exotic plant materials or other elements that might degrade or harm biological resources or ecosystem processes within the MSHCP conservation area.

The Villages of San Jacinto Project contains an extensive system of drainage basins, greenbelts, and detention basins/lakes engineered to provide for treatment of surface runoff prior to leaving the site. In addition, a SWPPP addressing construction-related and post-construction related erosion and runoff issues will be prepared and implemented (see *Section 5.8, Water Quality and Hydrology*). Therefore, indirect impacts on potential adjacent MSHCP conservation area lands due to drainage of harmful elements are not anticipated.

Toxics

Land uses proposed in proximity to the MSHCP conservation area that use chemical bioproducts such as manure that are potentially toxic or may adversely affect wildlife species, habitat, or water quality are required to incorporate measures to ensure that application of such chemicals does not result in discharge to the MSHCP conservation area. Although chemical bioproducts such as manure are not anticipated to be used on the Villages of San Jacinto Project site, project design measures and implementation of the SWPPP as discussed above would also prevent discharge of potential toxics into any adjacent MSHCP conservation areas. Therefore, indirect impacts on potential adjacent MSHCP conservation area lands due to toxic materials on the Villages of San Jacinto Project site are not anticipated.

Lighting

Due to the land uses proposed by the project, an increase in night lighting is anticipated. In order to avoid potential indirect impacts related to night lighting, mitigation is provided (see *Section 5.4.5, Mitigation Measures*, Mitigation Measure 5.4-c).

Noise

The MSHCP requires that "proposed noise-generating land uses affecting the MSHCP conservation area shall incorporate setbacks, berms or walls to minimize the effects of noise on MSHCP Conservation Area resources." For planning purposes, wildlife within the MSHCP Conservation Area should not be subject to noise that would exceed residential noise standards. Since the proposed land uses on a portion of the project site would be located adjacent to offsite MSHCP criteria cells include residential, school, park, and commercial/mixed use, noise is not expected to exceed residential noise standards (see *Section 5.11, Noise*). Therefore, impacts on potential adjacent MSHCP conservation lands due to increased noise are not anticipated.

Invasives

Due to the project's location adjacent to land that could potentially be conserved through the MSHCP Plan, potential indirect impacts related to invasive species may occur. In order to avoid potential impacts, mitigation is provided (see *Section 5.4.5, Mitigation Measures*, Mitigation Measure 5.4-d).

Indirect impacts to adjacent vegetation communities primarily would result from adverse "edge effects" as cited above. For the proposed project, the potential indirect impacts resulting from construction activities include dust, noise, and general human presence that may temporarily (or in the case of general human presence, permanently) disrupt species and habitat vitality and lead to construction-related soil erosion and runoff. However, all project grading will be subject to the typical restrictions (e.g., Best Management Practices) and requirements that address erosion and runoff, including the federal Clean Water Act, NPDES, and preparation of a SWPPP. In addition, as the site is surrounded by agriculture and an EMWD water reclamation facility, impacts to sensitive vegetation types adjacent to the project site are highly unlikely. See *Section 5.8, Water Quality and Hydrology*.

Non-MSHCP Covered Species

The June 17, 2003, Final MSHCP EIR/EIS analyzed other, non-covered species considered to be sensitive in the western Riverside County area. This EIR determined that other species which were not covered under the plan, would not be significantly affected by adoption of the plan. Therefore, any non-covered species in the MSHCP would not be considered significant.

5.4.5 Mitigation Measures

Project Specific Mitigation Measures

5.4-a Mitigation for impacts to jurisdictional wetlands and non-wetlands waters as required by RWQCB and CDFG, will consist of: (1) off-site creation, (2) a combination of off-site creation and enhancement of wetlands of equal or higher habitat quality, or (3) purchase of wetlands mitigation credits in an approved mitigation bank. Because wetlands/waters on the Villages of San Jacinto project site are isolated, of low overall quality (contain large quantities of non-native species), and are surrounded by agricultural lands, they do not provide high quality habitat for riparian-dependant wildlife species, therefore mitigation onsite would not result in equal or greater wetland habitat value. Mitigation for on-site wetlands/waters impacts would be a biologically equivalent or superior alternative to avoidance of these impacts. The above notwithstanding, wetlands areas created, enhanced, or preserved through the project's wetlands mitigation plan would be connected to other wetlands/riparian/riverine areas and would provide overall biological value to the peregrine falcon and other sensitive wildlife and plant species. Wetland

mitigation ratios are based on past experience developing appropriate mitigation for impacts to similar wetland and/or Waters of the US.

Herbaceous Wetlands, Open Water, Freshwater Marsh and Intermittent Stream Channel

Mitigation for impacts to 4.22 acres of open water, 0.23 acre of freshwater marsh, 0.21 acre of herbaceous wetlands, and 0.01 acre of intermittent unvegetated stream channel would be accomplished through the creation or purchase of wetlands mitigation credits from an approved mitigation bank at a 1:1 ratio (i.e., 4.67 acres total) (see Table 5.4-5, *Mitigation Requirements for Impacts to Sensitive Vegetation Communities on the Villages of San Jacinto Project Study Area*).

Cismontane Alkali Marsh

Mitigation for impacts to 0.01 acre of cismontane alkali marsh would be accomplished through the creation, or a combination of creation and enhancement, of wetlands of equal or higher habitat quality at a 3:1 ratio (i.e., 0.03 acre). Mitigation can also be accomplished through the purchase of wetlands mitigation credits in an approved mitigation bank.

Southern Willow Woodland

Mitigation for impacts to 0.07 acre of southern willow woodland would be required at a ratio of 4:1 (i.e., 0.28 acre) (see Section 5.4 in the EIR). Mitigation can be accomplished through the creation, or a combination of creation and enhancement of wetlands of equal or higher habitat quality. Mitigation can also be accomplished through the purchase of wetland mitigation credits in an approved mitigation bank.

**Table 5.4-5
Mitigation Requirements for Impacts to Sensitive Vegetation Communities
on the Villages of San Jacinto Project Study Area**

Plant Community/Land Cover Type	Impact Acreage	Mitigation Ratio	Required Mitigation Acreage
Open Water	4.22	1:1	4.22
Freshwater Marsh	0.23	1:1	0.23
Herbaceous Wetlands	0.03	1:1	0.03
Disturbed Herbaceous Wetlands	0.18	1:1	0.18
Intermittent Unvegetated Stream Channel	0.01	1:1	0.01
Cismontane Alkali Marsh	0.01	3:1	0.03
Southern Willow Woodland	0.07	4:1	0.28
Total	4.75		4.98

- 5.4-b** Per MSHCP, because of the site does not support long term conservation value for burrowing owls, mitigation for impacts to this pair of owls can include passive or active relocation of owls following accepted protocols per the burrowing owl Species Account in Volume II-B of the MSHCP. In addition, MSHCP requires that:

Pre-construction presence/absence surveys for burrowing owl within the survey area where suitable habitat is present will be conducted for all Covered Activities through the life of the permit. Surveys will be conducted within 30 days prior to disturbance. Take of active nests will be avoided. Passive relocation (use of one way doors and collapse of burrows) will occur when owls are present outside the nesting season.

Because impacts to other sensitive wildlife species are covered under the MSHCP, no additional mitigation is proposed for impacts to these species. However, if construction activity is to take place during the breeding season (i.e., January through October), a one-time biological survey for nesting bird species would be conducted within the proposed impact area no earlier than 72 hours prior to construction. This survey is necessary to assure avoidance of impacts to nesting native birds (per the federal Migratory Bird Treaty Act). If nesting birds are detected within vegetation which is to be impacted, the nest location(s) will be protected. A buffer of 25 to 300 feet (specific width to be determined by the project biologist according to species of bird) around the nest will be avoided until fledging.

- 5.4-c** MSHCP requires that night lighting shall be directed away from the MSHCP conservation area. Shielding will be incorporated by the project to ensure that ambient lighting in the MSHCP conservation area is not increased; therefore impacts on potential adjacent MSHCP conservation area lands due to increased lighting would be avoided.
- 5.4-d** Table 6.2 of the MSHCP lists landscape plant species that shall be avoided for all portions of developments that are located adjacent to (within 1,000 feet) the MSHCP conservation areas. These plant species will be avoided on the areas of the Villages of San Jacinto project site adjacent to Criteria Cells 2775 and 2878 to the west of the project site. This would be achieved by including language in the residential sale documents to ensure that future property owners understand the types of plants that are restricted. Sample language for inclusion in sale documents would be submitted to the Planning Department for approval prior to approval of a certificate of occupancy. Therefore no indirect effects due to invasive species are anticipated.

5.4.6 Residual Impacts/Level of Significance after Mitigation

The proposed project is consistent with the Western Riverside County MSHCP which, aside from Clean Water Act requirements, fully mitigates for impacts to biological resources within western Riverside County. Implementation of suggested mitigation measures will ensure that project impacts are mitigated to a level below significance.

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5.5 CULTURAL RESOURCES

5.5.1 Introduction/Methodology

The following discussion focuses on the project's relationship to existing cultural resources, potential impacts to these resources and mitigation measures required to reduce these impacts to a level below significance. A residual impact statement has been included in order to characterize the level of significance of impacts after mitigation measures have been applied.

Preparation of this section involved summarizing information contained in the December 2004 Cultural Resources Study for the project site, prepared by ASM Affiliates. This section summarizes existing condition information, and uses the City of San Jacinto CEQA Significance Thresholds, specifically the cultural resource thresholds, to determine if cultural resource impacts were considered significant under CEQA. Mitigation measures were developed by cultural resource consultants, ASM Affiliates.

For reference purposes, the March 2005 Cultural Resources Study for the project is included as *Appendix D* to this EIR. Methods used in the preparation of this December 2004 report are contained therein.

5.5.2 Existing Conditions

Cultural History

The project area is located in a region intermediate between the desert regions to the east and the coastal region to the west. As such, it is likely to have been affected by population movements from both the coastal and desert regions. There is a significant body of research that was developed during the Eastside Reservoir Project (now referred to as Diamond Valley Lake) planning and environmental study which has helped to provide a cultural resource chronology baseline for the western slopes of the Santa Rosa and San Jacinto Mountains. These sources can be applied for the purposes of a general cultural history, especially for the Late Prehistoric period, assuming that Native American mobility and resource use practices extended across the environmental zones from the deserts to the mountains, as evident from ethnohistoric sources. These sources can not provide clarification on patterns of social organization, settlement, territoriality and seasonality as they relate to the deep past. It is likely that these patterns changed over time with changing environmental conditions, resident tribal affiliation and demographics.

The prehistoric chronology is divided into three periods, each characterized by differing patterns of socio-political organization, technology, resource focus and land use. They include the Paleoindian, Archaic and Late Prehistoric periods.

Paleoindian Period

The Paleoindian period is represented by several archaeological complexes, including what are referred to as the related Fluted-Point and Western Pluvial Lakes traditions in the Mojave Desert, and the Paleo-Coastal tradition on the Pacific coastal plane. Among the best known archaeological complexes of tool types and settlement distributions in the desert is the Lake Mojave complex. On the coastal plane and Imperial Valley is the San Dieguito complex.

Small, highly mobile bands of hunters and gatherers depended on various game animals and an extensive rather than intensive pattern of plant exploitation. Sites tend to occur along former pluvial lakes and desert pavements, or along major stream channels. Milling tools are absent in the desert and rare on the coast, suggesting minimal use of hard seeds. The stone tool kit included foliate points or knives, long-stemmed points, lanceolate bifaces, discoidals, burins, crescents, flake and core scrapers, choppers, hammerstones, cores, drills, graters and casual flake tools.

Archaic Period (8000–1500 B.P.)

Over the long duration of the Archaic period, there was a gradual shift from small, highly mobile hunters and gatherers practicing a forager pattern to larger groups with a diversity of settlement types involving residential bases, temporary camps, strategically located cache sites and specialized resource collecting localities. This pattern reflects increasing intensification and a shift from foragers to collectors who practiced logistical patterns of mobility to accommodate seasonally available resources. Coincident with these changes were the diversification of food resources and new specialized technologies with which to exploit them. Projectile points reflect the shift to the use of atlatl and dart. Milling tools become ubiquitous and reflect increased exploitation of seeds and nuts. Larger residential base sites tend to occur at reliable water sources such as springs or tanks, with temporary camps near seasonal stream channels, extinct rivers, playas, high terraces above sinks and rockshelters.

Some later Archaic sites are known, however, from the Colorado Desert that indicate occupations along the boundary between the low desert and Peninsular Ranges and at more favored habitats at springs and tanks. The most substantial Colorado Desert site is Indian Hill Rockshelter in Anza-Borrego Desert State Park where 1.5 m of Archaic period deposits were excavated below a Late Prehistoric component. Most significant were 11 rock-lined cache pits and numerous hearths indicative of either a residential base or a temporary camp in which food and tool storage was integral to the hunting and gathering settlement-subsistence strategy. Also recovered were numerous Elk-eared dart points, flaked and milling stone tools and three inhumations, one of which was radiocarbon dated to 4070 "100 B.P." Two similar rock-lined pits were excavated at a small rockshelter in Tahquitz Canyon near Palm Springs. The small quantity

of artifacts at that site suggested strategically stored food and seed processing equipment of small mobile groups.

Late Historic Period (1500–100 B.P.)

The major archaeologically visible technological and cultural innovations of this period are the introduction of pottery making by the paddle-and-anvil technique, bow-and-arrow technology around 1200 B.P., a shift from inhumation to cremation burial and the introduction of floodplain agriculture on the Colorado River about the same time, although exact dating of early domesticates is lacking. This was also the period when obsidian trade relations shifted from the Coso sources in the Mohave Desert to the Obsidian Butte source in the Salton Trough, when Lake Cahuilla did not submerge it. Ceramics and cultigens were introduced from either Mexico or through the Hohokam culture of the Gila River.

The ancestral Cahuilla were certainly exposed to domesticates at an early time, although opinions differ on when they adopted horticulture as a substantial part of their economy. It may have been a secondary pursuit for the production of specialty foods and fibers or gourds in the prehistoric period, although that has not been established archaeologically, as yet. Agricultural intensification and ditch irrigation techniques may not have occurred until after exposure to the mission system in historic times.

Bow-and-arrow technology, seed-beaters and other sophisticated hunting and gathering technology may also be related to the spread of Numic and Takic peoples from the southern Great Basin. Late Holocene flooding of Lake Cahuilla may have accelerated contacts between people of the ancestral Yumans of the Colorado River and the ancestors of the Cahuilla in the Coachella Valley and Peninsular Ranges. Such contacts through ceremonial and economic exchange may have resulted in a cultural dynamic that formed the Patayan Pattern and the resulting cultures of the ethnohistoric period. Long-range travel to special resource collecting zones and ceremonial locales, trading expeditions, and possibly some warfare are reflected by the numerous trail systems throughout the Colorado Desert. Pot drops, trailside shrines and other evidence of transitory activities are associated with these trails. Many of the pictographic, petroglyphs, and bedrock grinding surfaces in the Colorado Desert have also been associated with the Patayan pattern, although direct dating and cultural affiliation of such features is often difficult.

Ethnohistoric Period

Cahuilla and related Takic ("Shoshonean") speakers of the Uto-Aztecan linguistic stock such as the Luiseño, Serrano, and Gabrieleño, migrated from the southern Great Basin into California to displace the groups who had been occupying those territories. Those displaced groups are presumed to be the ancestors of the modern Hokan speakers who now occupy the areas to the

south (Kumeyaay) and the north (the Chumash). The specific time, duration, and process of this migration remains unclear. Some estimates based on glottochronology and distribution of archaeological assemblages put the transition somewhere between 1000 to 2000 B.P., mostly likely around 1500 B.P. but possibly as early as 2500 B.P.

The first documented description of Cahuilla Indians is provided by the chroniclers of the Anza Expeditions, whose mission was to bring colonists from Sonora to coastal California. Their first trip brought them through Cahuilla territory in March 1774, the second in December 1775. Their first substantive encounter was at San Gregorio in the Borrego Valley, where they found Cahuilla ("Jecuiche") in apparent co-residence with Kumeyaay ("Cajuenches"). They continued to encounter Cahuilla through lower Collins Valley, Coyote Canyon, Cahuilla Valley, Tripp Flats, on the western side of the San Jacinto Mountains. Their observations were few but included references to the early spring agave harvests, seed gathering with beater and basket, rabbit sticks, agave fiber capes, and bows and arrows. Although possibly Serrano, a rockshelter composed of boulders and covered with brush is also described. The Spaniards describe the Cahuilla as weary of their presence, suggesting little or no previous contact, and apparently undergoing food stress, especially during the winter of 1775–1776 visit. This might be expected if stored foods in fall had been depleted and prior to the agave harvest.

The distance of Cahuilla territory from the California missions, first founded in 1769, meant they were not recruited in as great numbers, nor assimilated as rapidly as the coastal tribes. The first to enter Mission San Gabriel, possibly as early as 1783, were western Cahuilla of the kupakik lineage at Warner's Hot Springs. Next were Cahuilla wives of Serrano in the Cajon Pass area in the 1796. Members of western Cahuilla villages first appear in baptism records of 1797. In addition, runaway neophytes, especially Serrano, sought refuge among the desert tribes, exposing more isolated Cahuilla to mission ideology and material culture, not to mention diseases. It is not until after 1810, however, that Cahuilla individuals begin to appear in more substantial numbers in the registers of Mission San Gabriel, San Juan Capistrano, and San Luis Rey.

The impact of the Spanish mission system and colonization was generally much less immediate and profound to the isolated desert and mountain groups than coastal groups. More direct influence was not felt until after the establishment of the San Bernardino estancia in 1819 and, thereafter, a cattle ranch at San Geronio. When the Romero Expedition passed through the area in 1823–1824, it was clear that non-missionized Cahuilla were used to seeing vaqueros, employed by the rancho, driving cattle through the area. Certainly by 1823–1824, they were not only familiar with Hispanic ways but were comfortable in dealing with them, as evidenced by their reaction to the members of the Romero Expedition. The expedition also reported that the Cahuilla at Toro were engaged in agricultural pursuits (growing corn and melons) and were already familiar with the use of horses and cattle. While the Cahuilla may have already had some

experience in cultigens from their contact with the Colorado River tribes, agriculture probably became a more important supplement to their hunting and gathering economy after their exposure to ditch irrigation methods at the missions. Irrigation ditches were certainly being constructed by the Cahuilla in the Palm Springs area by the 1840s, and possibly several decades earlier.

Cahuilla political leadership with regard to external relations became more centralized in the Spanish and Mexican periods as high ranking or charismatic clan leaders were recognized by Europeans as representing entire tribal areas (Strong 1929:149). Emerging as central figures were Juan Antonio among the Mountain Cahuilla and Chief Cabazon in the desert. As early as 1844, Juan Antonio led several mountain clans to the San Gorgonio pass area to provide security for San Bernardino Rancho. His group played a significant role during the Mexican-American War, siding with the Mexicans against the Luiseño who supported the American invasion.

The 1848 Treaty of Hidalgo with Mexico obligated the Americans to preserve the liberty and property of the inhabitants of California, an obligation that obviously failed. The U.S. government in 1850 appointed three commissioners to conduct negotiations with tribal leaders across California to settle all land rights issues. One of the 18 treaties to be drafted covered the Cahuilla, Serrano, and Luiseño and was signed in Temecula on January 5, 1852. The tribal leaders were promised supplies, food, and technical training in return for accepting specified reservation lands. But as was so often repeated throughout the west, local Euro-Americans lobbied against the treaty and Congress never ratified it. The effect was to further alienate the traditional territorial base of the Cahuilla as whites flooded into the area to claim the best farming and grazing lands. Outside the reservations, Cahuilla men and women sought wage work on ranches in the San Jacinto and Santa Rosa mountains, and on farms, orchards, and urban households in the Riverside and San Bernardino valleys. This greatly accelerated the process of acculturation and Cahuilla participation in the regional socio-economic milieu.

European diseases were probably beginning to take their toll on the Cahuilla in the early 1800s but became particularly severe in the 1860s. The most dramatic was the great smallpox epidemic of 1863 that killed Juan Antonio as well as many bearers of tribal wisdom and culture. Survivors of previously autonomous clans assembled into the remaining villages or founded new settlements in an accelerated process of population aggregation and cultural reorganization. This process continued through the following decades. Isolated canyons now became places of refuge from disease and from contacts with Euro-Americans in general. Many previously occupied areas were abandoned in the 1860s and 1870s as residential bases but were still used for hunting and gathering into the twentieth century.

The Cahuilla land base was substantially reduced in the 1860s and 1870s as the federal government ceded every other section within ten miles of the new transcontinental railroad to the

railroad companies. Sections 16 and 36 of every township were also removed from federal control as a school tax base. Any de facto control of larger territorial bases was completely eliminated in 1876 when President Grant by Executive Order set aside small reservations for all groups classified as "Mission Indians." This included the sections or parcels in which they had aggregated in the previous decades and in which they had made improvements for farming, etc. The following year, another Executive Order by President Hayes set aside every even numbered section and certain other unsurveyed portions of townships for Indian reservations. The result was a checkerboard of Indian-controlled land, encompassing 48 sections, spread across the eastern edge of the Santa Rosa and San Jacinto mountains and the Coachella Valley. With various additions and withdrawals over time, this has remained the permanent home of the Cahuilla to the present.

As traditional lifeways became more difficult to pursue, the Cahuilla adapted to their new geographical and political environment by taking jobs in American ranches, towns, and cities. The 1860s through 1880s was a time of increased acculturation as new technologies, material goods, and practices were incorporated into the traditional lifeways of the reservation. Traditional ceremonial practices and beliefs continue along side Catholic and Protestant beliefs for many Cahuilla. Ceremonial houses still existed through the 1950s, 1960s, and early 1970s and many cultural traditions remain part of westernized lifestyles. The Cahuilla retain an acute interest in their cultural heritage and the cultural resources of their traditional territories.

Record Search Results

One historic resource was identified within the project area. The site is a bungalow style home located in the south-central portion of the project area adjacent to other existing buildings. The house was first recorded in 1982 by Laura Swift of the Riverside County Historical Commission.

In addition to onsite resources, five previously identified resources were identified within one mile of the site. Two of the resources are historic structures associated with farming in the area. One resource is the former location of historic structures and a Mission-era adobe rancho built around 1820. Another resource consists of the Colorado Aqueduct. The Aqueduct was built from 1933 to 1928 to transport water from the Colorado River to the Los Angeles Basin. One resource is the location of a historic event, the landing site of a record-setting trans-polar flight. This occurred on July 14, 1937, when a crew of three Russians landed their ANT-25 plane in agricultural fields after low fuel and fog forced them to abandon an attempted landing at San Diego. The 6,295-mile flight set a distance record and was only the second to cross the North Pole. The flight began in Moscow and lasted 62 hours, 2 minutes.

Site Survey Results

The site survey resulted the discovery of two isolated prehistoric artifacts. One previously recorded historic structure also exists within the project area. These resources include:

Historic Structure

The historic structure is a single-family home first recorded in 1981 by Laura Swift of the Riverside County Historical Commission. Swift estimated that it was built around 1926. However, a structure appears at the location on 1901 30-minute quadrangle maps. It is possible that the current home replaced an earlier structure. Evidence of such a replacement was not noted during the field survey.

The house is a front-gabled craftsman-style bungalow with a partial width front porch. The porch is also front gabled and both porch and house gable have triangular slatted vents under the gables. The front porch is enclosed by a low wall and rounded pilasters support the porch roof. The roof has widely overhanging eaves with exposed beams and triangular knee braces. The windows are all wood-framed double hung sashes with wooding casing.

The house has been abandoned since first recorded and is no longer maintained. It lies directly on an active fault (Casa Loma Fault) and the northeast corner has subsided 2-4 inches producing cracks on interior walls. All kitchen and bathroom cabinets, facilities and appliances were replaced, probably in the 1970s. Minor remodeling to interior spaces and partitions has also occurred. The north half of the attic was converted into a small bedroom loft with modern faux wood paneling. A small storage cellar is also located under the north half of the structure and is accessible by a stairwell in the kitchen. The unusual arrangement of windows on the north face of the house suggests other alterations may have occurred. Based on photos of the house taken during the original site survey (November 2004), the structure has further deteriorated with most of the windows being broken out and being marked with extensive graffiti.

One outbuilding which probably served as a tractor shed or garage was noted in the original field survey, but is no longer present at the site.

ISO-1 (Isolated Bifacial Mano)

An isolated bifacial mano (hand-held milling stone) was found near the crest of a subtle escarpment formed by an active fault that crosses the San Jacinto Valley. The floodplain of the San Jacinto River lies north of the escarpment. Otherwise, the area would have been a featureless alluvial plain in prehistory. The mano measures 10×8.2×5.7 cm and is made of coarse-grained granite. Both ends have been battered either to shape the mano into a desirable form or by being used as a pestle.

ISO-2 (Isolated Bifacial Mano)

An isolated bifacial mano (hand-held milling stone) was discovered 36 m south of ISO-1. The mano measures 8.5 cm in diameter and is 5 cm thick. It is made of hard, semi-crystalline quartz. About 70% of the circumference has been battered, probably to shape the object.

Despite good ground visibility and extensive searching, no additional artifacts were found in the vicinity of the two manos.

5.5.3 Significance Thresholds

Based on the criteria identified in Appendix G of the CEQA Guidelines, the proposed project would have a significant impact on cultural resources if it would:

1. Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?
2. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 10564.5?
3. Disturb any human remains, including those interred outside of formal cemeteries?

NOTE: Due to the length of CEQA Section 15064.5, it is not repeated verbatim. Please refer to www.ceres.ca.gov for a description of CEQA Section 15064.5.

5.5.4 Impacts

The following discussion outlines potential impacts for the proposed project.

Would the project cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?

While the historic structure has many features of a Craftsman-style bungalow, it has been substantially altered. All cabinets and plumbing fixtures have been destroyed. Interior walls have been altered by graffiti and many parts of the walls and ceiling have been punctured with holes that are beyond repair. The original wooden siding has been replaced by unusual textured pink stucco. In addition, a corner picture window has been inserted at the rear of the house.

The importance of a historic structure is related to survival of characteristics that existed during the period of significance. Historical resources must retain enough of their character or appearance to be recognizable as historical resources and to convey the reasons for their significance. Integrity is evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling and association. The bungalow has been altered to the extent

that it has lost integrity of design, materials, workmanship and feeling. In fact, it is now barely identifiable as a Craftsman-style bungalow. It is unlikely that the bungalow retains sufficient integrity to be eligible for listing on the California Register of Historical Resources. Therefore, a less than significant impact to this formerly historic resource would occur.

Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 10564.5?

No significant archaeological resources were identified within the project by either a records search or survey. One previously recorded historic structure and two newly identified isolated prehistoric artifacts were identified by the survey. Five previously recorded sites are located within one mile of the project. Due to the presence of these resources and the fact that the project is located within an alluvial setting, potentially significant archaeological resources could be unearthed during site grading. In order to reduce this potentially significant impact from occurring, mitigation is provided (see *Section 5.5.5, Mitigation Measures, Mitigation Measure 5.5-a*).

Would the project disturb any human remains, including those interred outside of formal cemeteries?

There are no known human remains within the site or vicinity. Additionally, the Native American Heritage Commission (NAHC) conducted a search of their Sacred Lands File, but found that Native American cultural resources were not present within one-half mile of the project area (See Appendix B). However, in the unlikely event human remains are found during construction activities, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur in the immediate area until the County Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code Section 5097.98. If the coroner recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, he or she shall contact, by telephone within 24 hours, the NAHC who will then contact the appropriate tribal representative. Should local Native American groups find that the site supports potential buried ancestral remains, the Soboba Consulting Services Agreement allows for Native American monitoring during construction. Consequently, the project's adherence with the State Health and Safety, Public Resources Codes and Soboba Consulting Services Agreement shall ensure any potential impacts would be less than significant.

5.5.5 Mitigation Measures

5.5-a In order to reduce the potential for disturbance or damage to unknown archaeological resources, monitoring of mass grading activities of the site by a qualified archaeologist is required. Should the monitor observe disturbance of resources that could be important

archaeological artifacts, the monitor shall have the power to stop grading in the immediate area of discovery in order to allow for a resource study and recovery/curation effort (if necessary) to occur.

5.5.6 Residual Impacts/Level of Significance after Mitigation

Due to the lack of significant historic resources present, significant impacts would not occur. In order to reduce potentially significant impacts to unknown archaeological resources, mitigation is provided and would reduce any potentially significant impacts to a level below significance.

5.6 GEOLOGY AND SOILS

5.6.1 Introduction/Methodology

This section consists of a summary of existing geological conditions, anticipated impacts related to these conditions and mitigation measures required to reduce these impacts to a level below significance. A residual impact statement has been included to characterize the level of significance after applied mitigation measures.

A fault investigation for the project was performed by Leighton and Associates and their preliminary findings are presented in their report dated March 31, 2004. In order to evaluate the potential for surface fault rupture in the existing onsite Earthquake Fault Hazard Zone, ten exploratory fault trenches were excavated over a period of seven months. Findings were coordinated and reviewed with the County of Riverside Geologist and previous investigations completed on adjacent sites were also reviewed. In response to questions and comments received from the County Geologist, Leighton also prepared three additional investigations (reports dated August 31, 2005, June 30, 2006, and October 31, 2006). These investigations are included in *Appendix E* of this EIR and summarized in this section. Leighton and Associates conducted a preliminary geotechnical investigation which is summarized in the February 28, 2005, Preliminary Geotechnical Investigation. This second report is included as *Appendix F* to this EIR.

5.6.2 Existing Conditions

Subsurface Soil and Rock Conditions

The earth materials encountered throughout the site consist of undocumented fill, topsoil and alluvium. These units are described in the following sections in order of increasing age.

Undocumented Fill

Undocumented fills are related to grading activities to construct onsite access roads, perimeter unimproved dirt roads, site agricultural leveling and exploratory excavations (fault trenches). Other undocumented fills exist associated with limited water retention berms to collect seasonal runoff and the livestock run-off retention basin. All undocumented fills are considered unsuitable for support of additional fill or structures or other planned improvements in their present condition.

Topsoil

The majority of the site is composed of topsoil that is located on the upper 10 to 24 inches of the ground surface. Uniform in composition and thickness, this material general consists of a light

yellow-brown to yellow brown, silty sand, silty clay to sandy clay with scattered gravel sized clasts.

Alluvium (Qal)

Alluvial soil was encountered in all areas of the site and was deposited as part of a complex fluvial/channel dispositional environment. This alluvium consists of yellow-brown to medium gray, dry to damp, silty, very fine to fine sand, with interbedded lenses of silt. Channel deposits of homogeneous, friable, dry, medium to coarse sand with interbedded lenses and lamination of gray, loose to medium dense, dry to damp, very fine to fine sand were also observed. There are abundant in-filled animal burrows containing finer silt and sands.

Subsurface Water Conditions

Perched groundwater was encountered at multiple depths below the surface, as shallow as 5 feet and as deep as 22 feet. Regional groundwater is anticipated below 150 feet and likely, as much as 200 feet below grade. However, groundwater can be expected to fluctuate seasonally within the subject site and during periods of heavy regional rainfall, or groundwater withdrawal by the local residences, agricultural developments and water utility companies. During drought conditions, groundwater levels could temporarily deepen significantly.

Faulting and Seismicity

Based on the commonly accepted definition provided by the California Geological Survey, an "active fault" is a fault that has had surface displacement within Holocene time (about the last 11,000 years) and a "potentially active fault" is a fault considered to have had surface displacement during Quaternary time (last 1,600,000 years). These definitions are used in delineating Earthquake Fault Zones as mandated by the Alquist-Priolo Geologic Hazards Zones Act (California Public Resources Code Sections 2621–2630). The intent of this act is to prohibit the location of structures on the traces of active faults, thereby mitigating potential damage due to fault surface rupture.

The project site is located within seismically active southern California. The subject site contains an Earthquake Fault Zone (as created by the Alquist-Priolo Earthquake Fault Zone Act). According to the Leighton & Associates Fault Investigation, the active San Jacinto-Casa Loma fault transverses the northwestern and southern portions of the project site. Fault lineaments are shown by geomorphic evidence, aerial photography, and in the San Jacinto 7.5 minute Quadrangle of the Alquist-Priolo Earthquake Fault Map (see *Figure 5.6-1, Faults and Fault Zones*).

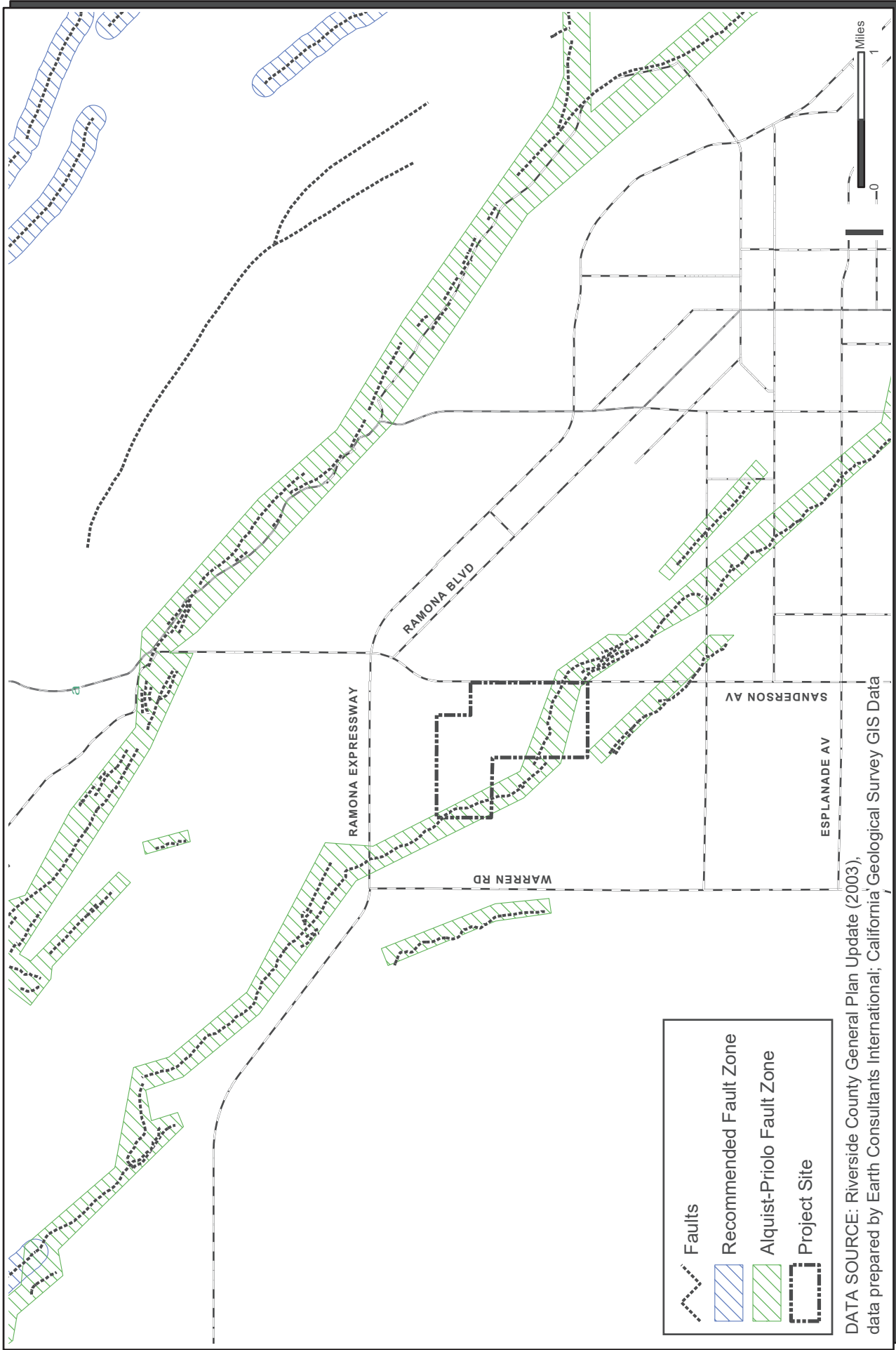


FIGURE . -

Villages of San Jacinto EIR
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In addition to the on-site Casa Loma, several other active faults are located in the project area. The San Jacinto Valley Segment of the San Jacinto Fault is located approximately 0.8 mile northwest of the site, the San Jacinto-Anza Fault is located 7.2 miles to the southeast, and San Andres Fault lies 15.7 miles to the northeast. *Figure 5.6-1* summarizes regional faults within the area. The San Jacinto Fault Zone is estimated to accommodate a plate slip of approximately 12–20 millimeters per year. Since the mid-18th century, at least six major earthquakes have occurred along the San Jacinto Fault Zone, ranging from 6.2Mw to 7.2Mw. Of all the fault systems in California, the San Jacinto and San Andreas Fault complexes are among the most active. The U.S.G.S. measures hundreds of minor earthquakes annually within the San Jacinto Valley. Most of these earthquakes are in the bedrock underlying the alluvium unit at depths of 3 to 5 miles.

Subsidence/Ground Rupture

Ground rupture is generally considered most likely to occur along pre-existing active faults. As such, the potential for site ground rupture during a seismic event is considered moderate to high. Based on historic occurrence data, ground rupture is believed to occur at normal recurrence intervals which may not provide adequate time for erosion to conceal fault features. Subsidence/rupturing of a portion of the San Jacinto graben has occurred at an apparent average rate of between 0.125 and 0.5 inch per year for at least the past 15,000 to 40,000 years (see *Figure 5.6-2, Subsidence Hazard Areas*).

Liquefaction

Liquefaction occurs when strong seismic activity creates excess pore pressures in cohesionless soils. Research and historical data indicate that loose granular soils or soils of low plasticity below a near surface groundwater table are most susceptible to liquefaction. Liquefaction is characterized by a loss of shear strength in the affected soil layers, thereby causing the soil to flow as a viscous liquid. This effect may be manifested at the ground surface by settlement and/or sand boils. In order for the potential effects of liquefaction to be manifested at the ground surface, the soils generally have to be granular or of low plasticity, loose to medium dense, saturated relatively near the ground surface and must be subjected to a sufficient magnitude and duration of ground shaking. Increased soil mobility can lead to lateral spreading, consolidation and settlement of loose sediments, ground oscillation, flow failure, loss of bearing strength, ground fissuring and other damaging formations. As depicted on *Figure 5.6-3, Liquefaction Hazard Areas*, the proposed project is located in an area with moderate potential for liquefaction. Upon further analysis, the Leighton Associates Report identifies the northern one-third to one half of the project site as having a potentially high possibility for liquefaction to occur given current site conditions.

Landslide, Mudflow or Other Erosion Hazards

Landslides are anticipated when severe weather events weaken certain agglomerations of hillside soils. As a result, unstable soil slips downhill. The proposed site is relatively flat with site elevations varying from approximately 1,457 feet above mean sea level along the northwestern boundary to an elevation of approximately 1,493 feet near the southeast corner. No previous landslides were identified during the investigation (see *Figure 5.6-4, Landslide Hazard Areas*).

Similar to landslides, mudflows occur during severe weather events in or adjacent to mountainous terrain. Large boulders and sediment are mobilized as a result of a sudden onslaught of water. This hazard is prone to occur in areas affected by fire that are relatively void of vegetation. The project is located in the San Jacinto River Valley, away from mountainous terrain. This hazard is expected to be minimal at this project site.

Any exposed soil surface may be susceptible to wind or water erosion. There are no naturally occurring drainages on site, therefore the likelihood of water-based erosion is unlikely.

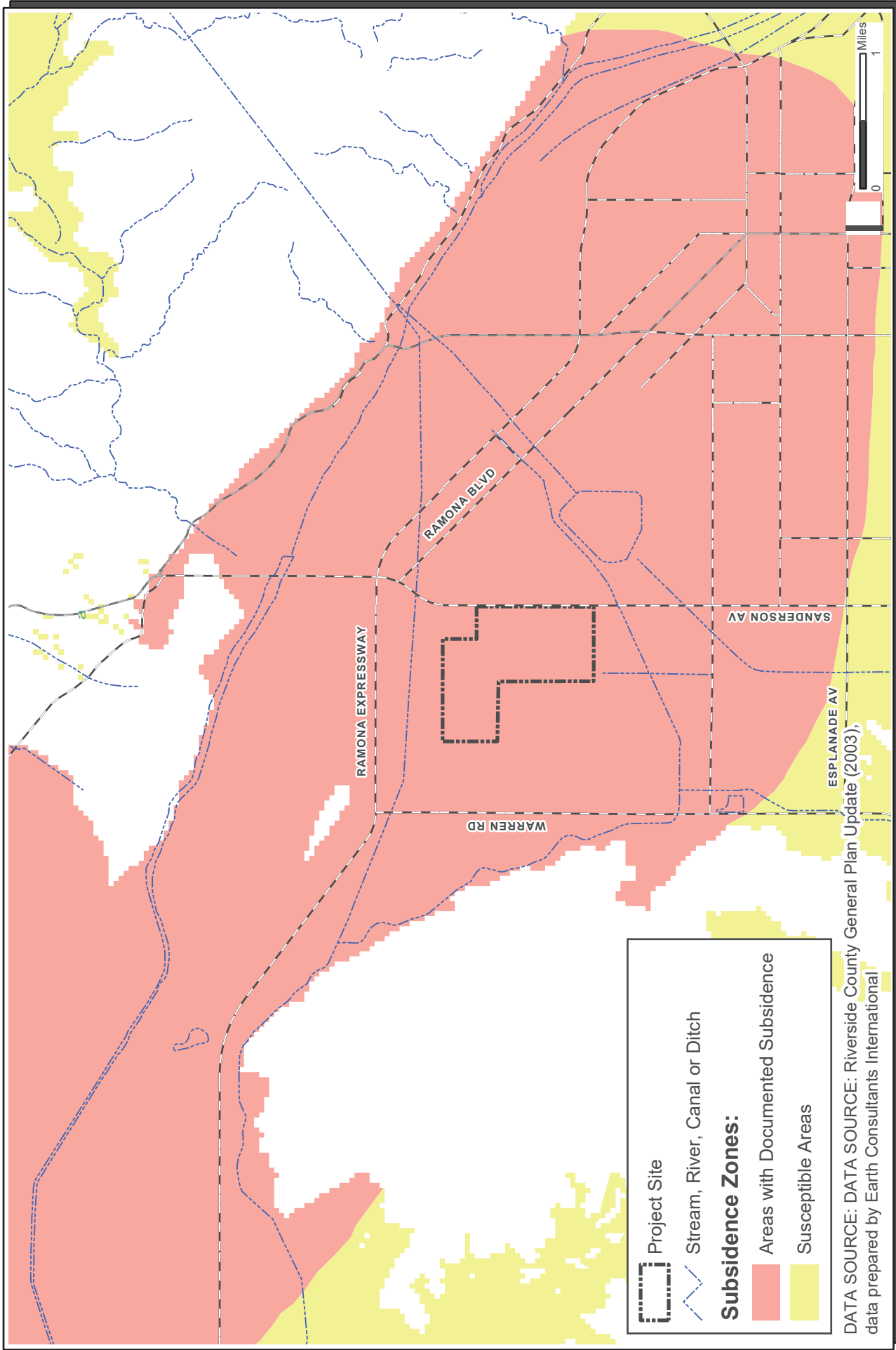
Seiches and Tsunamis

A tsunami is a sea wave generated by submarine earthquakes, landslides or volcanic activity, which displaces a relatively large volume of water in a very short period of time. Seiches are defined as oscillations in a semi-confined body of water due to seismic shaking. The proposed project site is not located near a significant body of water or the Pacific Ocean. Therefore, these hazards are not anticipated at the project site.

5.6.3 Significance Thresholds

Based on the criteria identified in Appendix G of the CEQA Guidelines, the proposed project would have a significant impact on geology and soils if it:

1. Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - a. Rupture of a known earthquake fault, as delineated in the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault
 - b. Strong seismic ground shaking
 - c. Seismic-related ground failure, including liquefaction
 - d. Landslides.



FIGURE

Villages of San Jacinto EIR

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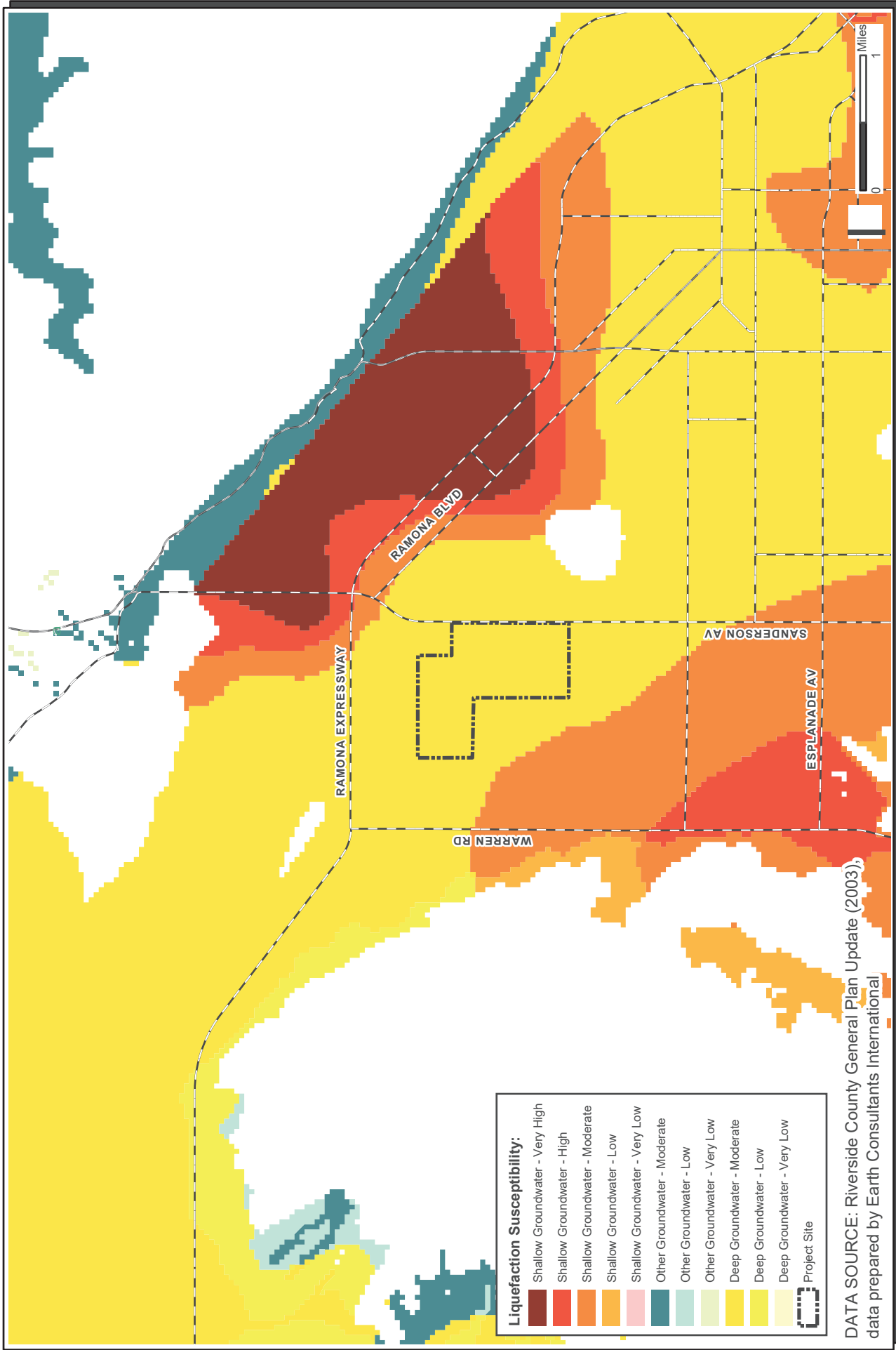


FIGURE
-3

Villages of San Jacinto EIR
Liquefaction Susceptibility

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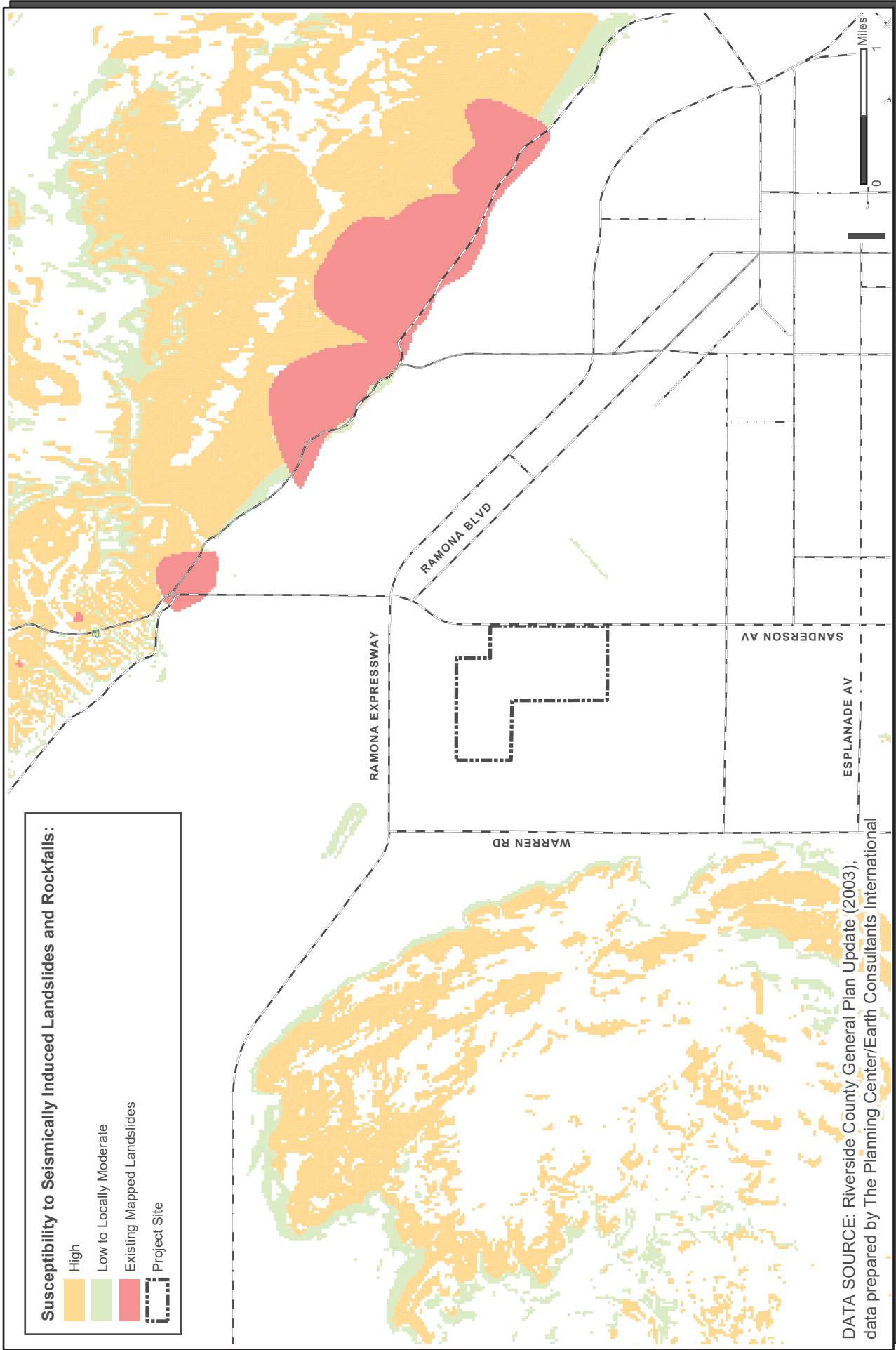


FIGURE . .

Villages of San Jacinto EIR
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2. Result in substantial soil erosion or the loss of topsoil.
3. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse.
4. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property.
5. Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water.

5.6.4 Impacts

Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

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

Potential site ground rupture, as determined by the Leighton and Associates Fault Investigation, is considered moderate to high. Ground rupture due to onsite faults could potentially affect existing and future facilities (such as gas, electrical, water mains, etc.) that traverse fault zones on the site. In order to mitigate for potential impacts associated with seismic ground shaking, mitigation is provided (see *Section 5.6.5, Mitigation Measures, Mitigation Measure 5.6-c*).

Strong seismic ground shaking?

The project site is located in seismically active southern California with numerous fault systems in the region. Structures will be designed in accordance with the values and parameters given within the Universal Building Code (UBC) as required by state law. With the incorporation of UBC seismic design parameters in construction of structures on site, the impacts associated with exposure of people to geological hazards is less than significant. These measures are a standard part of the Building Permit process and additional mitigation measures are not required.

Seismic-related ground failure, including liquefaction?

Liquefaction potential analyses and earthquake-induced settlement calculations were performed utilizing the computer program LiquefyPro. Considering the potential ground motions resulting from the design basis ground motion (0.9g) and a maximum moment magnitude event for the

San Jacinto Fault (6.9Mw), the program follows the latest study procedures. Leighton used the boring data, CPT data and groundwater data (perched groundwater table ranging from 5 to 22 feet) as assumptions in the model.

Based on the above-described model, the relatively loose saturated alluvial deposits onsite are considered susceptible to liquefaction hazards. Liquefaction occurs when loose material becomes mobile during a seismic event. In order to compensate for hazards associated with liquefaction, mitigation is provided (see *Section 5.6.5, Mitigation Measures*, Mitigation Measures 5.6-b and 5.6-e). With implementation of these measures, liquefaction potential for the project will be less than significant.

Landslides?

Due to the flat nature of the site and the existing topsoil and Quaternary-aged alluvium, the subject site is not prone to landslide hazards. That said, manufactured slopes that are planned for construction on the site would be susceptible to slope stability hazards. In order to prevent any significant impacts from occurring, mitigation is provided (see *Section 5.6.5, Mitigation Measures*, Mitigation Measure 5.6-f).

Slopes adjacent to severe flow direction changes may be susceptible to increased scour erosion and slope stability. In order to reduce this potential impact to a level below significance, mitigation is provided (see *Section 5.6.5, Mitigation Measures*, Mitigation Measure 5.6-g).

Would the project result in substantial soil erosion or the loss of topsoil?

Short-term erosion effects during the construction phase of the project would be minimized through implementation of the City of San Jacinto construction Best Management Practices (see *Section 5.8.5, Mitigation Measures*, Mitigation Measure 5.8-d)

Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or offsite landslide, lateral spreading, subsidence, liquefaction, or collapse?

The volume change of excavated onsite materials upon recompaction is expected to vary with materials, density, moisture content, location and intended compaction effort. This variance in material could potentially result in shrinkage, which would result in potential subsidence risk. In order to reduce potential impacts to a level below significant, mitigation is provided (see *Section 5.6.5, Mitigation Measures*, Mitigation Measure 5.6-d and 5.6-e).

Many portions of the site are characterized as having unsuitable near surface compressible soils not suitable for structural support. Location of a structure on an unstable geological unit or soil

would be a significant impact; thus, mitigation is provided (see *Section 5.6.5 Mitigation Measures, 5.6-a*).

Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?

Expansive soils are those with a significant amount of clay particles that have the ability to shrink or swell depending on water content. The Geotechnical Report indicated that based on limited laboratory testing and visual classification, onsite earth materials generally possess a very low to medium expansion potential; however, high to very high expansive silt and clay materials may be encountered locally during rough grading. Compliance with recommendations for ground preparation as outlined in the February 28, 2005, Leighton and Associates Geotechnical Investigation will reduce risk hazards associated with expansive soils to a less than significant level.

Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

No septic tanks or alternative wastewater disposal systems are proposed as part of the project. As a result, no impact would result.

5.6.5 Mitigation Measures

5.6-a The on-site soils are suitable for reuse as compacted fill, provided they are relatively free of organic materials, debris and oversize materials. The optimum lift thickness to produce a uniformly compacted fill will depend on the type and size of compaction equipment used. In general, fill will be placed in uniform lifts not exceeding 8 inches in thickness. Fill soils will be placed and compacted to a minimum 92 percent relative compaction at a minimum of 2 percent above the optimum moisture content.

Fill slopes shall be overbuilt a minimum of 2 feet and trimmed back to the compacted core or rolled with a weighted sheepsfoot compaction roller as the fill slope height increases in maximum 4-foot increments. Placement and compaction of fill shall be performed in accordance with City grading ordinances and minimum compacted standard under the observation and testing of a qualified geotechnical engineer.

All loosely packed exploration trench backfill shall be removed and recompacted in accordance with project geotechnical guidelines. An engineering geologist shall be present to observe all excavations to confirm limits of faulting. If exposures differ from

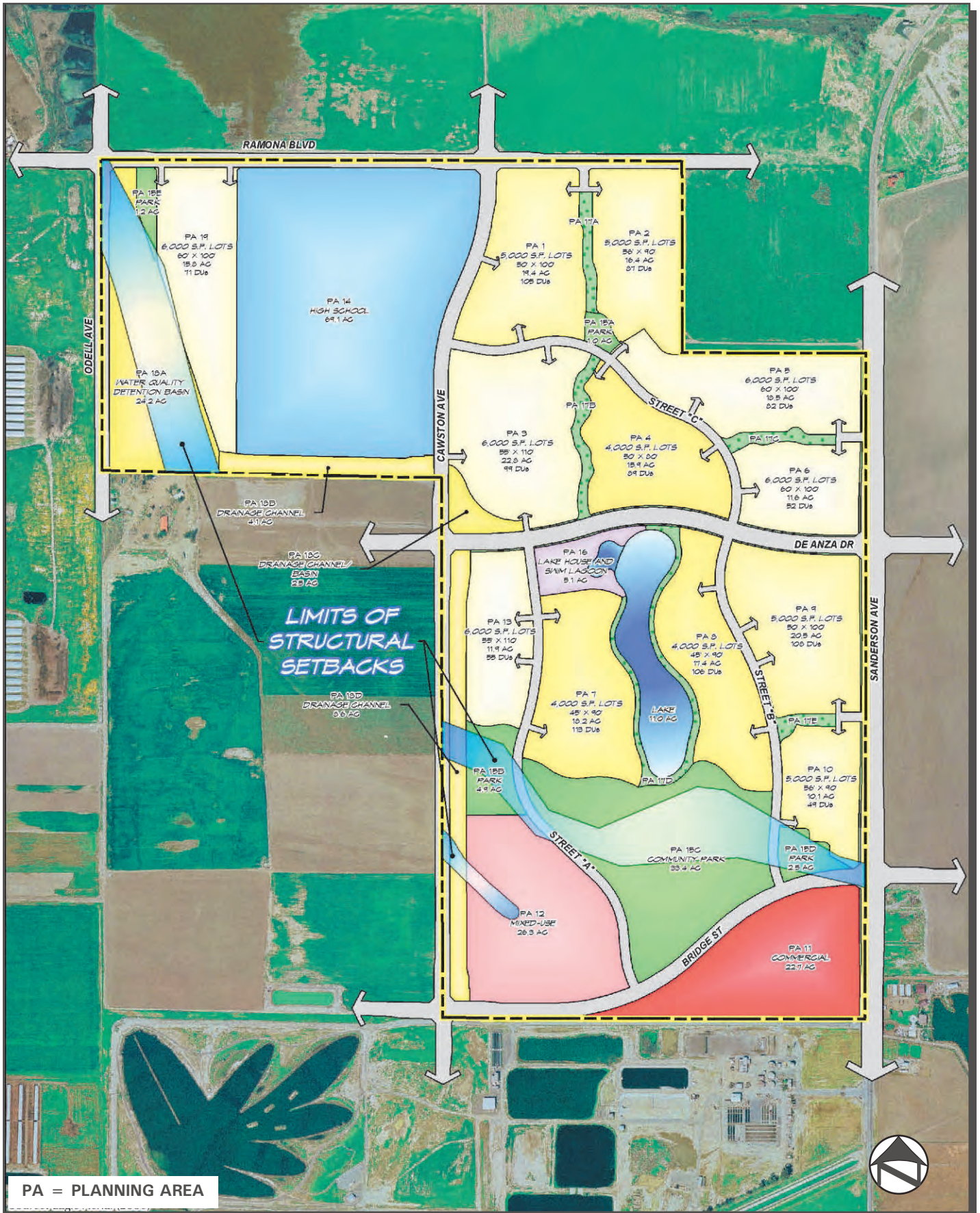
anticipated conditions, further investigations and/or additional structural setbacks can be required.

- 5.6-b** To facilitate the grading operations, on-site irrigation water shall be reduced or ceased for a period of 3 to 6 months prior to the start of grading. Further, the contractor will pothole the upper 12 to 14 feet of soil prior to the start of grading operations to determine if shallow groundwater will affect the planned grading.

In localized areas where shallow groundwater conditions exist such that removals cannot be performed to the required depths or where deeper excavations (such as in the proposed “lake” areas) are proposed at or below the existing perched groundwater, methods of localized dewatering will be required including the use of well points and/or interceptor ditch methods. Alternative ground stabilization methods such as deep dynamic compaction shall be required. Deep dynamic compaction is a means of physically compacting the subsurface soils by repeatedly dropping a heavy weight (typically a large concrete block) to densify the underlying soils to a predetermined density. After proposed grading plans are developed, these areas shall be further reviewed by a qualified geotechnical engineer.

- 5.6-c** A structural setback zone of 50 feet on either side of the encountered fault zone, and as much as 75 feet on the “down-block” side shall be observed for structures intended for human occupancy (2,000 hours/year). This preliminary setback zone will be refined as the grading concept is developed and possible additional site studies are performed. The Fault Location Map (Plate 2) within the Fault Investigation shows required preliminary structural setbacks. However, the final setback limits shall be determined during grading or future studies as the fault trace is exposed, identified and surveyed for lateral and vertical location. The setbacks shall be shown on all project plans.

To reduce the effects and magnitude of the earthquake-induced settlements, remedial grading shall occur. Following remedial grading, differential dynamic settlements are anticipated to be approximately 2 inches in a horizontal distance of 40 feet. Additional analysis will be performed by a qualified geotechnical specialist to further refine earthquake-induced settlement. Based on a review of the rough grading plans by a qualified geotechnical specialist, remedial grading requirements will be revised.



SPECIFIC MAP SOURCE: T&B PLANNING CONSULTANTS, May 2009

Villages of San Jacinto EIR Land Use Plan with Geotechnical Setback Recommendations

FIGURE 5.6-5

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To reduce the potential adverse secondary seismic effects, mitigation of compressible alluvial soils to support the planned development at areas such as free-face slopes ("green belt" detention basins, channels etc.), the project perimeter (where removals may be limited by property restraints) and planned lake areas will require additional geotechnical stability design by a qualified geotechnical engineer after project plans are developed.

5.6-d While it is difficult to determine the level of subsidence and shrinkage risk, site grading must include a balance area or ability to adjust import quantities to accommodate some variation. Relative compaction rates must be followed as they appear in the February 28, 2005, Leighton and Associates Technical Report. As stated in the February 28, 2005, Leighton Report, due to the agricultural discing of the surface soils, a subsidence value of 0.2 feet must be applied when evaluating earthwork volumes.

5.6-e To reduce the potential for liquefaction and earthquake-induced settlements at the site, the following guidelines will be implemented. For preliminary design purposes, a minimum removal and recompaction of 10 feet (as measured from finish grade) will be used in cut areas on that portion of the site designated as having a high potential for liquefaction (roughly the northern one third to one half of the site).

In cut areas outside the area designated as high potential for liquefaction, a minimum overexcavation of 5 feet below finish grade must be used. For areas designated as "fill" a minimum removal of 5 feet will be used, provided a minimum total thickness of 10 feet of properly compacted fill is maintained below the lowest adjacent finish grade (including lowest adjacent street elevation). The removal depths for the infrastructure roadways shall be a minimum 5 feet below pavement subgrade. These estimates are for preliminary design planning only and will be revised based on our review of rough grading plans. These preliminary estimates will be revised upon review of the proposed grading concept plan. These alluvial soils must be removed down to medium dense to dense, relatively non-porous alluvium material as determined by the geotechnical consultant. Undercuts will be made 1:1 next to existing roadways that will remain after grading. Cut slopes shall be replaced as properly compacted fill.

The excavated materials will be moisture conditioned or dried back, as appropriate, to achieve the required minimum relative compaction. Saturated soils may need to be dried back or mixed with drier on-site materials and shall be thoroughly mixed prior to fill placement. The resultant excavation will be filled and compacted in this lifts to a minimum 92 percent relative compaction at a minimum of 2 percent above the optimum moisture content. A minimum 90 percent relative compaction may be acceptable in the southern portion of the site. This will be determined during review of rough grading plans.

After completion of the required removal of unsuitable soils, the approved surface will be scarified, moisture conditioned as needed and compacted prior to placing fill. If subgrade conditions at the approved bottoms are wet and “pumping” near the required removal depth, the scarification and moisture conditioning will not be necessary. Stabilization measures where shallow groundwater conditions are expected at or near the required removal depth may include the use of a stabilization fabric and/or coarse gravel/graded rock and gravel. Where shallow groundwater conditions are present, alternative ground improvement guidelines shall be followed (see Mitigation Measure 5.5-b). Further evaluation of these specific areas will be necessary after draft grading plans are prepared.

- 5.6-f** All slopes will be provided with appropriate surface drainage features and landscaped with drought-tolerant, slope-stabilizing vegetation as soon as possible after grading to reduce the potential for erosion. Berms will be provided at the top of fill slopes to direct water away from slope faces. Lot drainage shall be directed such that runoff on slope faces is minimized. Oversteepening of slopes must be avoided during fine grading and building construction. Although not anticipated, if seepage is encountered in slopes, special drainage features may be necessary.
- 5.6-g** For slopes that are will be adjacent to ditches or other water conveyance features, proper protection including rip rap or other slope protection devices as designed by the project civil engineer would be required. Slope stability and the potential for scour shall be required in the design drainage alignment.

5.6.6 Residual Impacts/Level of Significance After Mitigation

The mitigation measures, which include further monitoring of onsite geotechnical risk as grading plans are finalized for a qualified geotechnical engineer, would reduce impacts related to geology and soils. All mitigating geotechnical features shall be designed/implemented pursuant to the Uniform Building Code and State of California seismic engineering standards. These mitigation measures will therefore reduce geotechnical hazards to less than significant levels.

5.7 PALEONTOLOGICAL RESOURCES

5.7.1 Introduction/Methodology

This section presents a discussion of paleontological resources that would be affected by the proposed project and alternative. Paleontological resources are the fossil or trace remains of past life forms, including both vertebrate and invertebrate species, as well as plants. Fossil remains such as bones, teeth, shells, leaves, etc. are found in the geologic deposits (formations) within which they were originally buried. The geologic composition of an area; therefore enables scientists to evaluate the potential for resources to occur, based on knowledge of resources that have been uncovered from similar geologic formations elsewhere.

Existing condition information is derived from the February 28, 2005, Leighton and Associates, Inc. Preliminary Geotechnical Investigation for the Villages of San Jacinto project. This report is included as *Appendix F* to this EIR. Methods utilized in the February 28, 2005, Leighton Report are contained therein. Paleontological sensitivity data was obtained from the 2003 Riverside County General Plan Update Multipurpose Open Space Element.

5.7.2 Existing Conditions

Sediments derived from the San Jacinto River have been deposited across the river valley. The sediment thickness is thought to be highly variable with a minimum thickness of 500+ feet in the southwest portion of the valley. Paleoeustuary silts and sands, Quaternary-aged terrace deposits and fanglomerates flank major abandoned drainage channels and the base of mountain slopes. Near the City of San Jacinto, a boring excavated northeast of the Casa-Loma Fault segment did not reach basement rocks to the depth explored of 1,430 feet. In general, seismic and gravity surveys indicate that approximately 6,500 feet to 7,900 feet of alluvial sediment overlie the basement bedrock in the valley.

As indicated on Figure OS-8 of the 2003 Riverside County General Plan Update Multipurpose Open Space Element, the project is located within an area characterized as having a high likelihood of supporting fossils (see *Figure 5.7-1, Paleontological Sensitivity*). The San Jacinto Valley is designated as "High B (Hb)" which means a resource's probability to occur is based on the occurrence of fossils at a specified depth below the surface. This category indicates that fossils are likely to be encountered at or below four feet of depth and may be impacted during excavation by construction activities (County of Riverside, 2003, pg. OS-36 to OS-37, Figure OS-8).

5.7.3 Significance Criteria

Based on the criteria identified in Appendix G of the CEQA Guidelines, the proposed project would have a significant impact on paleontological resources if it:

1. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.

5.7.4 Impacts

Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

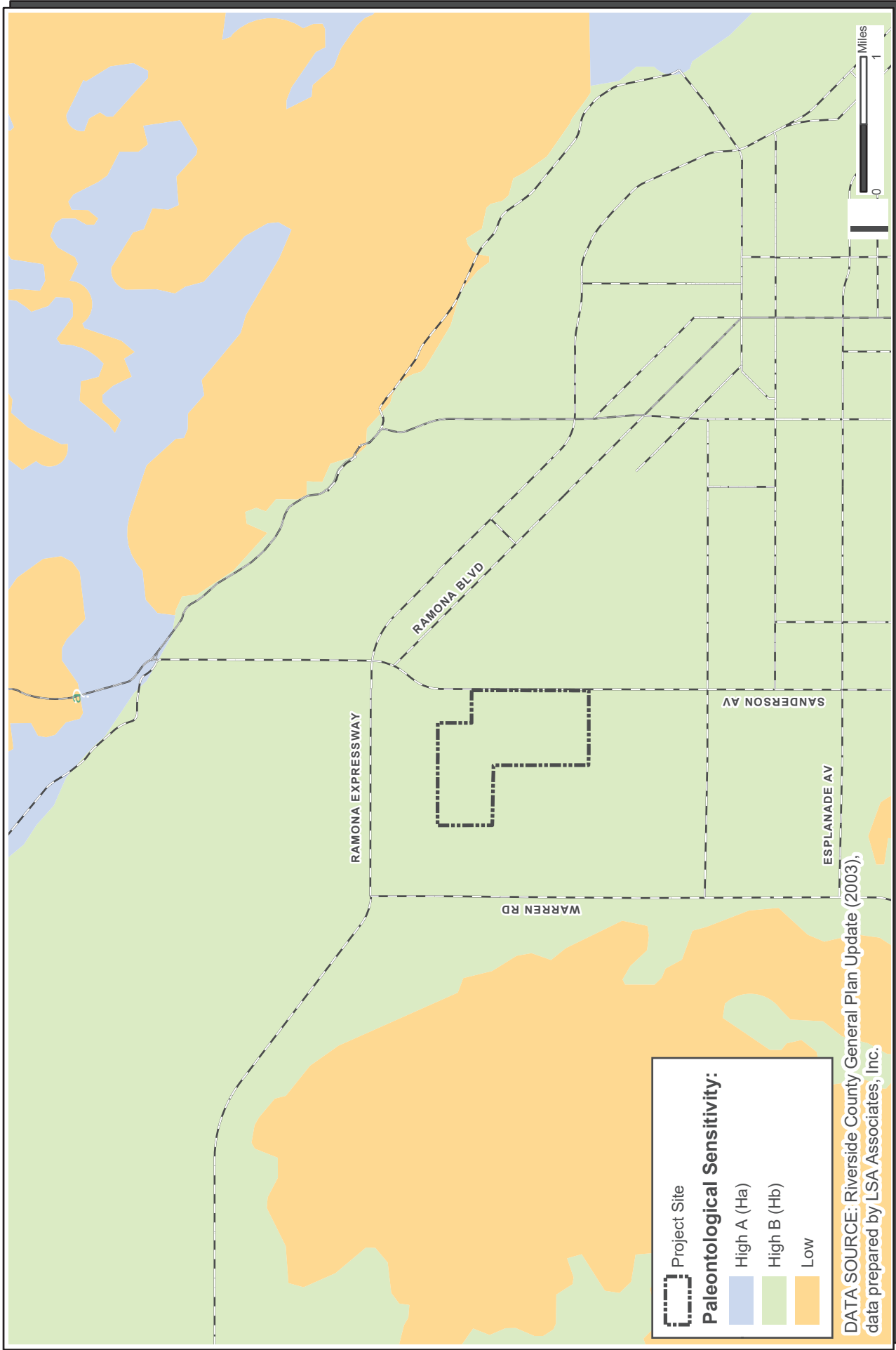
Since the proposed project lies within a geologic formation with high resource bearing potential and the project would necessitate recompaction of potential fossil bearing alluvium, impacts to paleontological resources are considered to be significant. Impacts to paleontological resources could occur during excavation and site development when geologic formations that have resource bearing potential are disturbed. Impacts would occur when fossils are physically destroyed by such activities. In order to reduce potential construction-related impacts to paleontological resources, mitigation is provided (see *Section 5.7.5, Mitigation Measures, Mitigation Measure 5.7-a*).

5.7.5 Mitigation Measures

5.7-a Prior to beginning any excavation work, the developer or its contractor shall demonstrate that a qualified paleontologist has been retained to carry out a paleontological resources mitigation program. A paleontological monitor shall be on site at all times during grading activities that disturb non-undocumented fill soils or formations. If fossils are discovered, the paleontologist or paleontological monitor shall have the authority to halt construction in the immediate area of discovery until such a time that a complete assessment of the resources can be conducted. If resources are found that are determined to be significant, the paleontological monitor shall direct activities to recover the resources. Prepared fossils, along with copies of all pertinent field notes, photos and maps shall be deposited in a scientific institution with paleontological collections, such as the San Bernardino County Museum.

5.7.6 Residual Impacts/Level of Significance after Mitigation

With the implementation of the construction monitoring program (outlined as Mitigation Measure 5.7-a, above), impacts to paleontological resources would not be significant.



FIGURE

Villages of San Jacinto EIR
Paleontological Sensitivity

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5.8 WATER QUALITY AND HYDROLOGY

5.8.1 Introduction/Methodology

This section consists of a summary of existing hydrologic conditions, anticipated impacts related to these conditions, and mitigation measures required to reduce these impacts to a level below significance. A residual impact statement has been included to characterize the level of significance after applied mitigation measures.

This analysis is based on information contained in the February 2009 *Villages of San Jacinto Specific Plan, Drainage Plan* by T&B Planning Consultants; the May 2006 *Preliminary Drainage Study for Tentative Tract Map 34081* by RBF Consulting; the August 2006 *Phase 1 and 2 Preliminary Drainage Study for Tentative Tract Map 34081* by RBF Consulting; the January 15, 2007, *Summary Preliminary Drainage Analysis for TTM 34081 Phases 1, 1A, 1B & 1C* by RBF (included as *Appendix G* to this EIR); and the February 23, 2009, *Preliminary Hydrology and Hydraulics Study for the Villages of San Jacinto* by JLC Engineering & Consulting Inc. Floodplain resource information was obtained through the September 7, 2006, letter from RBF to Riverside County Flood Control and Water Conservation District. Water quality management information was obtained from the February 23, 2009, *Preliminary Hydrology and Hydraulics Study* referenced above and the *Lake Preliminary Design Report* (Pacific Aquascape, Inc. March 2009). Additional hydrologic resource setting and existing conditions information was used from the February 28, 2005, Leighton and Associates Geotechnical Investigation for the proposed project (included in *Appendix F* to this EIR); discussions with Leighton and Associates geotechnical staff; and publications by the Santa Ana Regional Water Quality Control Board (RWQCB) (1995, 2003, 2004). Once existing condition information was summarized, the City of San Jacinto Significance Thresholds, specifically Hydrology and Water Quality Resource Thresholds, were used to determine if hydrologic impacts were considered significant from a CEQA perspective. Mitigation measures were developed in part by recommendations in the February 2009 *Villages of San Jacinto Specific Plan, Drainage Plan Report* by T&B Planning Consultants and experience with past projects of a similar size and character.

5.8.2 Existing Conditions

The San Jacinto and broader Inland Empire climate is mild. Winters are characterized as mild and sometimes cool, springs can be rainy, and the summer and fall hot and dry. The San Jacinto area climate is characterized by relatively low rainfall, with warm summers and mild winters. Annual precipitation averages about 13 inches, with over 70% of that falling between December and March. Average monthly temperatures range from a high of 98° Fahrenheit in August to a low of 37° Fahrenheit in December (City-Data.com, Accessed April 30, 2009).

The San Jacinto River is the dominant hydrologic feature of the central western Riverside County area. Rainwater and urban runoff drain through a series of reservoirs, canyons, and/or storm drain facilities into this drainage system. This hydrologic feature runs along the northern and eastern edge of the City (see *Figure 5.8-1, Existing Hydrologic Features*).

5.8.2.1 Surface Water

The main surface hydrologic feature of the San Jacinto Valley is the San Jacinto River. This waterway is a natural channel that has been disturbed by historical filling and farming activities. This river flows from east to west and serves as the main drainage point for precipitation runoff from higher elevations to the east and urban runoff throughout the watershed.

Within the river valley, various channels and ephemeral creeks feed the river system. This watercourse is located approximately 1 mile northeast of the project site. General off-site drainage occurs through a northern sheet-flow pattern off the project site toward the San Jacinto River. Surface water runoff often ponds on site and throughout the river plain to form an alkali playa hydrologic feature. Currently, on-site water drains in a sheet flow manner to the north toward the San Jacinto River. On-site irrigation channels also assist in drainage of the site.

5.8.2.2 Groundwater

Groundwater is defined as subsurface water that exists in soils and geologic formations that are fully saturated. The water table is considered to be the top of the saturated zone. Groundwater bearing formations sufficiently permeable to transmit and yield significant quantities of water are called aquifers. The principal groundwater basins in the San Jacinto Region are the Lakeview/Hemet-North, San Jacinto-Upper Pressure, and Hemet-South. The project site straddles the Lakeview/Hemet-North basin to the west and the San Jacinto-Upper Pressure basin to the east. The San Jacinto River had historically kept all the groundwater basins in that part of the region full. Now, there is essentially no surface flow beyond the mouth of the canyon, where it exits the mountains; the riverbed is typically dry (State of California 1995, p. 1-5).

Similar to most Riverside County rivers, the San Jacinto River is supported by a groundwater basin. Groundwater was locally encountered on the site at depths between 5 and 40 feet below existing ground surface elevations. It is suspected that groundwater may be as deep as 200 feet below ground surface on the project site. The groundwater table likely fluctuates seasonally in response to long periods of heavy rainfall or groundwater withdrawal (Leighton 2005, p. 7).

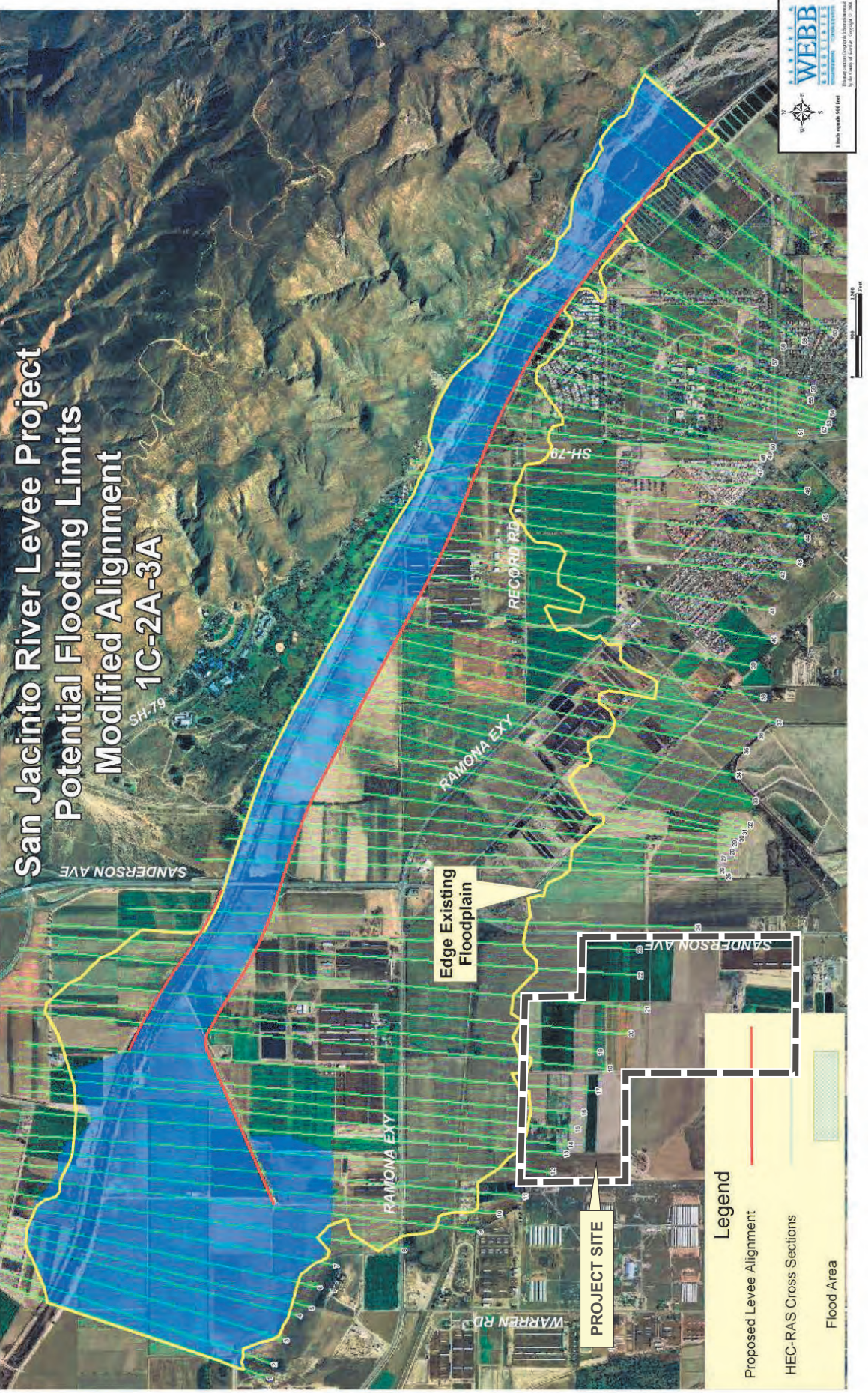


FIGURE
5.8-1

Villages of San Jacinto EIR
Existing Hydrologic Features

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5.8.2.3 Flooding

As depicted on *Figure 5.8-1, Existing Hydrologic Features*, the northwest corner of the project is located within Zone A of the San Jacinto River, as mapped by the Federal Emergency Management Agency (FEMA). Zone A is defined as the area of the 100-year floodplain with base flood elevations and flood hazard factors not determined.

The San Jacinto River Valley has a very unique flood flow regime. Flood flows every 5 or 10 years have contributed to the broad, shallow "Mystic Lake" in the riverbed north of the City. The shallow, periodic flooding of this river has contributed to the wildlife and alkali-playa-dependent plant species that characterize the area.

5.8.2.4 Water Quality

Water quality refers to the effect of natural and human activities on the composition of water. Water quality is expressed in terms of measurable physical and chemical qualities that can be related to planned water use. In general, stormwater can potentially contain a host of pollutants, such as trash and debris, bacteria and viruses, oil and grease, sediments, nutrients, metals, and toxic chemicals. These contaminants can adversely affect receiving and coastal waters, flora and fauna, and public health. Water quality issues are especially prevalent during rainy periods; however, due to the amount of urban runoff that is transferred to the storm drain and natural drainage system, pollution is a problem year-round.

Regulatory Background

Several important federal and state legislative actions have an impact on how water quality is measured, controlled, and addressed during the planning process. Important legislation and regulatory mechanisms are therefore outlined below.

Federal Water Pollution Control Act (Clean Water Act)

The basic federal law regulating surface water quality control is referred to as the Federal Water Pollution Control Act of 1972, commonly referred to as the Clean Water Act. The main objective of the Clean Water Act is to "restore and maintain the chemical, physical and biological integrity of the Nation's waters and to make all waters fishable and swimmable." The Clean Water Act established seven goals and guidelines for water quality, including the elimination of pollutants to navigable waters by 1985, provision of quality water to allow for propagation of fish and other marine life, prohibition of pollutants in toxic amounts, provision of financial assistance to waste treatment management plans, development of technology necessary to carry out goals, and development and implementation of programs for control of non-point source pollution. Clean

Water Act provisions have been written in conjunction with applicable plans and policies of the federal Endangered Species Act and the National Environmental Policy Act.

The Clean Water Act, in part, establishes requirements for state water quality planning, management, and implementation with regard to surface waters. These requirements call for the restoration and maintenance of chemical, physical, and biological integrity of state waters; attainment of a level of water quality that provides for the protection and propagation of fish, shellfish, and wildlife and recreation in and on the water; and consideration of water resources for state water supplies and other beneficial uses. The Clean Water Act requires that the goals and guidelines established by varying state agencies be reviewed on a triennial basis. This process involves public hearings at least once every 3 years for the purpose of review and/or revisions (State of California 1995, p. 1-2).

Other provisions of the Clean Water Act related to basin planning include Section 208, which authorizes the preparation of waste treatment management plans, and Section 319, which mandates specific actions for the control of pollution from non-point sources. 1987 amendments to the Clean Water Act identified the importance of non-point source pollutants and their impact on local water quality. As stated in the Water Quality Control Plan for the Santa Ana River Basin (State of California 1995), non-point source pollutants represent the greatest threat to water quality. Non-point source pollutants are often chemicals from lawns or gardens, automobile residues, urban runoff, or household cleaning agents or compounds. Most non-point source pollutants enter the water supply in large quantities and sudden surges, largely due to storm events. Control of this type of pollution source has proven to be difficult. Because the release of a non-point source pollutant is exempt from National Pollution Discharge Elimination System (NPDES) regulations, the RWQCB has more recently focused on non-point source pollution issues. The RWQCB has encouraged all community members to use best management practices (BMPs) to eliminate or reduce non-point source pollution.

National Pollution Discharge Elimination System (NPDES)

NPDES, established under the Clean Water Act, regulates the discharge of pollutants from point sources into regional water resources. The NPDES permit regulates discharges of wastes for the purpose of limiting the quantity of pollutants and volume of waste discharged to surface waters. NPDES permits contain prerequisite conditions that must be met by dischargers to ensure protection of the receiving water. Any agency or private party proposing to discharge pollutants into surface waters must submit a report of waste discharge at least 180 days in advance of the planned date of release. Concurrence with pollution elimination levels and approval of the report of waste discharge would culminate in the granting of an NPDES permit. Responsibility of enforcement of NPDES guidelines and permits falls within jurisdiction of the RWQCB (Region 8 for the San Jacinto Basin), and is subject to review by the Environmental Protection

Agency (EPA) Regional Administrator (EPA Region IX, San Francisco Office) (State of California 1995, p. 5-2).

The EPA has published NPDES permit application requirements for municipal, industrial, and construction stormwater discharges under the urban runoff management strategy. The application requirements for municipalities were directed at municipalities that own and operate separate storm drain systems servicing populations of 100,000 or more or that contribute significant pollutants to waters of the United States and require such agencies to obtain coverage under municipal stormwater NPDES permits. Municipalities were required to develop and implement an urban runoff management program to address activities to reduce pollutants in urban runoff and stormwater discharges that were contributing a substantial pollutant load to their systems.

In order to control water quality, the State Water Resources Control Board has organized basin plans for all drainage systems within California. Goals and plans set forth in the Water Quality Control Plan for the Santa Ana River Basin (State of California 1995) are carried out through the use of the NPDES permitting and monitoring system.

303(d) Status Listing

Under Section 303(d) of the 1972 Clean Water Act, states, territories, and authorized tribes are required to develop a list of water quality limited segments. These waters on the list do not meet water quality standards, even after point sources of pollution have installed the minimum required levels of pollution control technology. The law requires that these jurisdictions establish priority rankings for water on the lists and develop action plans, called Total Maximum Daily Loads (TMDL), to improve water quality.

California Water Code

The California Water Code is the principal policy that governs the use of water resources within the State of California. This code controls water rights, policies governing the construction and management of dams and reservoirs, flood control, conservation, development and utilization of state water resources, water quality protection, and management and management of water-oriented agencies (State of California 1995, pp. 1-1 to 1-2). The water quality provisions set forth in the California Water Code have been written to supplement certain provisions of the California Health and Safety Code, Public Resources Code, Fish and Game Code, Food and Agriculture Code, Government Code, Harbors and Navigation Code, California Environmental Quality Act, and the California Endangered Species Act.

Porter-Cologne Water Quality Control Act

Division 7 of the California Water Code, commonly referred to as the Porter-Cologne Water Quality Control Act, is the principal mechanism for water quality control within California. This act establishes a regulatory program to protect water quality and beneficial uses of all state waters. The Porter-Cologne Act established the State Water Resources Control Board and RWQCB as principal state agencies responsible for water quality control. Water quality of the Santa Ana River Basin is controlled by Region 8 Regional Water Quality Control Board of the State Water Resources Control Board (State of California 1995, p. 1-1).

Relevant Plans and Policies

Water Quality Control Plan for the Santa Ana River Basin (Region 8)

The federal Clean Water Act, and, specifically the NPDES program as well as the California Water Code (specifically, the Porter-Cologne Water Quality Control Act) require that the Regional Water Quality Control Board adopt a water quality control plan to guide and coordinate the management of water quality in the Region. The Santa Ana River Basin Plan's purpose is to (1) designate beneficial uses of the Region's surface water and groundwater, (2) designate water quality objectives for the reasonable protection of those uses, and (3) establish an implementation plan to achieve the objectives. This basin plan was adopted in 1995 and has been subject to several amendments over the last 10 years. This plan outlines water quality planning guidelines for the Upper and Lower Santa Ana Region watersheds, the San Jacinto River watershed and several other small drainage areas in southwestern San Bernardino County, western Riverside County, and northwestern Orange County (State of California, Santa Ana RWQCB 1995).

The Villages of San Jacinto project is located approximately 1 mile southwest of the San Jacinto River. The Santa Ana River Basin Plan divides the County into "Hydrologic Units" (HU). Each HU has a "Hydrologic Area" (HA). Each HA can be divided into "Hydrologic Sub Areas" (HSAs). The project is located within the San Jacinto River Basin HU and the San Jacinto River HA. The project is located near Reach 4 - Nuevo Road to North-South Mid-Section Line (T4S/R1W-S8). Beneficial uses have been identified for each of the water bodies the project could potentially impact (State of California 1995, p. 3-21).

Inland Surface Waters

San Jacinto River HA: Beneficial uses include Municipal and intermittent beneficial uses include Agricultural, Groundwater, Recreation (1), Recreation (2), Warm Freshwater Habitat and Wildlife Habitat (State of California 1995, p. 3-21).

The Basin Plan identifies Water Quality Objectives for each water body within the Santa Ana River Watershed. The project is located within an inland surface stream area, specifically Reach 4 of the San Jacinto River. Guidelines pertain to algae, un-ionized ammonia, acute (1-hour) ammonia-nitrogen, fecal coliform bacteria, boron, chemical oxygen demand, chloride, residual chlorine, color, total filterable dissolved solids, floatables, fluoride, hardness, inorganic nitrogen, metals, methylene blue-activated substances, nitrate, total inorganic nitrogen, oil and grease, total dissolved oxygen, pH, radioactivity, sodium, suspended and settleable solids, sulfate, sulfides, surfactants, taste and odor, temperature, toxic substances, and turbidity. The Basin Plan mandates that all waters of the region shall be maintained in accordance with each pollutant-specific objective and shall not be exceeded as a result of controllable water quality factors (State of California 1995, p. 4-34)

Groundwater

San Jacinto-Upper Pressure and Hemet-South: Beneficial uses include Municipal, Agricultural, Industrial, and Industrial Process Supply (State of California 1995, p. 3-27 and Figure 3-4).

The Basin Plan identifies Water Quality Objectives for each groundwater body within the Santa Ana River Watershed. The project is located within a groundwater area, specifically the San Jacinto – Upper Pressure basin. The Basin Plan quantifies limits or designates guidelines for discharge into the San Jacinto River. Guidelines pertain to arsenic, fecal coliform bacteria, boron, barium, chloride, color, cyanide, total dissolved solids, fluoride, hardness, metals, methylene blue-activated substances, nitrate, oil and grease, pH, radioactivity, sodium, sulfate, taste and odor, total inorganic nitrogen, and toxic substances. The Basin Plan mandates that all waters of the region shall be maintained in accordance with each pollutant-specific objective and shall not be exceeded as a result of controllable water quality factors (State of California 1995, pp. 4-11 to 4-13, 4-34).

Lake Elsinore and Canyon Lake Nutrient TMDL Allocation and Implementation Plan

According to the California 2002 303(d) list (approved by the USEPA on July 2003) published by the Santa Ana RWQCB, the San Jacinto River is not listed as an impaired water body. That said, Lake Elsinore, which is located downstream of the project site and is fed by the San Jacinto River, is listed on the 303(d) list as an impaired water body. The pollutants of concern in Lake Elsinore include nutrients, organic enrichment/low dissolved oxygen, sedimentation/siltation, and other pollutants where toxicity is unknown. Watershed-wide waste discharge requirements for discharges of stormwater runoff associated with new developments have been adopted for the San Jacinto River Watershed. These discharge objectives include the following:

NPDES Stormwater Discharge Construction Permit (Water Quality Order 99-08-DWQ)

Section 402 of the Clean Water Act establishes a framework for regulating municipal and industrial stormwater discharges under the NPDES program. This permit regulates stormwater runoff from construction sites where clearing; grading; or disturbances to the ground, such as stockpiling or excavation that results in soil disturbances of at least 1 acre of total land area, occurs.

5.8.3 Significance Criteria

Based on the criteria identified in Appendix G of the CEQA Guidelines, the proposed project would have a significant impact on water resources and water quality if it:

1. Violates any water quality standards or waste discharge requirements.
2. Substantially depletes groundwater supplies or interferes substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted).
3. Substantially alters the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on- or off-site.
4. Creates or contributes runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources or polluted runoff.
5. Places housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map.
6. Place within a 100-year flood hazard area structures which would impede or redirect flows.
7. Exposes people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam.
8. Otherwise substantially degrades water quality.

5.8.4 Impacts

Would the project violate any water quality standards or waste discharge requirements?

Perched groundwater was encountered at multiple depths below the surface, as shallow as 5 feet and as deep as 22 feet. Regional groundwater is anticipated below 150 feet and is likely to occur

as much as 200 feet below grade. However, groundwater can be expected to fluctuate seasonally within the subject site and during periods of heavy regional rainfall or groundwater withdrawal by the local residences, agricultural developments, and water utility companies. During drought conditions, groundwater levels could temporarily deepen significantly.

The project would not impact regional groundwater (Leighton 2006). All lake and drainage features on site would be constructed so they are above the regional groundwater table so as to prevent intermixing of ground and surface waters. That said, it is possible that, during project construction, perched groundwater may be encountered. In order to avoid potential impacts to regional groundwater resources in the San Jacinto River Valley, mitigation is provided (see *Section 5.8.5, Mitigation Measures*, Mitigation Measure 5.8-b).

Construction Impacts

Development of the proposed project may result in an increase in pollutant load due to sedimentation. Sediments are soils or other surficial materials eroded and then transported or deposited by the action of wind, water, or gravity. Sediment from erosion, primarily during construction, is quite often a major project pollutant of concern. A potentially significant impact could occur during construction related to sedimentation; therefore, mitigation is provided (see *Section 5.8.5, Mitigation Measures*, Mitigation Measures 5.8-d and 5.8-e).

As indicated above, groundwater may be encountered during construction. In order to prevent impacts to groundwater resources, mitigation is provided (see *Section 5.8.5, Mitigation Measures*, Mitigation Measure 5.8-b).

Operational Impacts

Based upon guidelines within the Riverside County Flood Control & Water Conservation District (RCFC&WCD) BMP Handbook and the Santa Ana RWQCB General Permit for Riverside County, the proposed development must treat potential contaminants produced and associated with the proposed land use types within the project site. As a result, a water quality extended detention basin is being proposed to provide water quality treatment for the runoff emanating from the project site. The volume calculations for the water quality basins are based upon the method included in the RCFC&WCD BMP Handbook. A water quality/extended detention basin is a permanent basin sized to detain and slowly release the design volume of stormwater, allowing particles and associated pollutants to settle out. An inlet forebay section and inlet energy dissipater will minimize erosion from entering flows, while erosion protection at the outlet prevents damage from existing flows. The bottom of the basin slopes toward the outlet and a low flow channel conveys incidental flows directly to the outlet end of the basin. The basin should utilize vegetated earth in order to allow some infiltration to occur, although highly pervious soils may require an impermeable liner to prevent groundwater contamination. Proper

turf management is also required to ensure that the vegetation does not contribute to water pollution through pesticides, herbicides, or fertilizers. The City of San Jacinto will maintain all aspects of the basin pertaining to water quality. RCFC&WCD will maintain all aspects of the basin that pertain to detention.

Lake Preliminary Design Report

This report (Pacific Aquascape, Inc. 2009) discusses safety features for the proposed lake shoreline, water depth and temperature, and treatment of runoff and water quality management. The treatment process involves reduced concentration of dissolved pollutants, nutrients, and salts through flushing of the lake water volume by utilizing the lake as the irrigation supply source; reduction of nutrient concentrations from inflows, nitrogen, and phosphorous; prevention of algae blooms by using constructed gravel biofilter beds that utilizes "biological filtration"; and maintaining oxygen levels through aeration promoting oxygen exchange to prevent anaerobic conditions, which allows natural process to occur, such as denitrification for removal of nitrogen. The lake operation and maintenance program also includes routine debris removal, algae control, aquatic weed control, pump maintenance, and biofilter maintenance. These processes ensure continued aesthetic appeal and desirable water quality as well as control of vectors, such as mosquitoes and flies

Agricultural Operations

The current and previous land uses on the project site generate nitrogen and phosphorous, which may have an impact on existing on-site and off-site water quality. Due to the elimination of agriculture, the project site will likely result in a beneficial impact due to a reduction in nitrogen and phosphorous.

Pollutants of Concern

Due to the intensification of land uses on the site, in combination with an increase in impervious surfaces, the project may result in potentially significant impacts to water quality attributable to urban pollutants contained in stormwater runoff. The constituents described below commonly are found on similar developments as a result of urban runoff and could, therefore, affect the proposed project's water quality. The development of a final Water Quality Management Plan (WQMP) as specified in Mitigation Measure 5.8-f, ensures that overall reduction is achieved for all pollutants listed below. An extended detention basin and vegetated swale (vegetated channel) as proposed, has low to high removal effectiveness for all pollutants per the *Riverside County Stormwater Quality BMP Design Handbook* (RCFC&WCD, July 21, 2006). Other project specific measures are proposed which will ensure that the project will not violate any water quality standards or waste discharge requirements.

Nutrients

Nutrients are inorganic substances, such as nitrogen and phosphorus. The primary sources of nutrients in urban runoff are fertilizers and eroded soils. Due principally to the type of land use, the project is anticipated to result in the transport of fertilizers from landscape areas by stormwater or water from irrigated sprinklers and wash down activities, resulting in a potentially significant impact. In order to reduce this potential impact, mitigation is provided (see *Section 5.8.5, Mitigation Measures*, Mitigation Measure 5.8-f).

Heavy Metals

metals are raw material components in non-metal products, such as fuels, adhesives, paints, and other coatings. Under the proposed project, it is anticipated that heavy metals from vehicles on parking lots and streets may be transported to the storm drain system, resulting in a potentially significant impact (see *Section 5.8.5, Mitigation Measures*, Mitigation Measure 5.8-f).

Organic Compounds

Commercially available or naturally occurring carbon-based organic compounds are found in pesticides, solvents, and hydrocarbons. Landscaping associated with the proposed project may result in release of organic compounds, therefore mitigation is provided (see *Section 5.8.5, Mitigation Measures*, Mitigation Measure 5.8-f).

Trash and Debris

The introduction of a suburban population to the area will contribute to an increase in trash and debris pollution, which will result in a potentially significant impact. In order to reduce potentially significant impacts, mitigation is provided (see *Section 5.8.5, Mitigation Measures*, Mitigation Measure 5.8-f).

Oxygen-Demanding Substances

Biodegradable organic materials on site could react with dissolved oxygen in the water to form other compounds. It is anticipated that an increase in population in the area would result in a likely increase of oxygen-demanding substances in urban runoff, therefore creating a significant impact. In order to reduce this potential impact, mitigation is provided (see *Section 5.8.5, Mitigation Measures*, Mitigation Measure 5.8-f).

Oil and Grease

Oil and grease are characterized as high-molecular-weight organic compounds. The primary source of oil and grease of concern to the proposed project would be leaky cars. Because of their

respective increase in parking facilities, it is anticipated that the mixed-use, commercial, school, and public park uses would result in potentially significant impacts related to oil and grease. In order to reduce this potential impact, mitigation is provided (see *Section 5.8.5, Mitigation Measures*, Mitigation Measure 5.8-f).

Bacteria and Viruses

Pathogens such as bacteria and viruses are typically caused by the transport of animal or human fecal wastes from the watershed primarily through improper or non-disposal of pet wastes. Water, containing excessive bacteria and viruses can alter the aquatic habitat and create a harmful environment for humans and aquatic life. Also, the decomposition of excess organic waste causes increased growth of undesirable organisms in the water. In order to compensate for this potentially significant impact, mitigation is provided (see *Section 5.8.5, Mitigation Measures*, Mitigation Measure 5.8-f).

Pesticides

Herbicides used for controlling nuisance plant growth are a potential source of pollutants. Because the project will introduce new landscaping to the project site, the introduction of herbicides into stormwater runoff is considered a potentially significant impact. In order to reduce this potentially significant impact, mitigation is provided (see *Section 5.8.5, Mitigation Measures*, Mitigation Measure 5.8-f).

Would the project substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted)?

The Water Supply Assessment Report prepared for the project (*Appendix K*) indicates that the total projected water demand for the proposed development would remain within the limits of the projected demand of the Eastern Municipal Water District's Urban Water Management Plan 2000 (refer to *Section 5.12.8* for a detailed discussion of domestic water supply).

The project would result in an increase in impervious surfaces due to the change from an existing agricultural operation (which supports natural percolation) to that of a suburban housing/commercial/retail development (which will support pavement and other impervious surfaces). Although the project would not result in the exact same local groundwater recharge characteristics, the project drainage plan would facilitate complete retention/detention of water onsite to mirror pre-development flows. Therefore, during weather events, water will be directed to the urban drainage system which will collect at the northwest of the site in a detention basin.

This basin will result in the percolation or evaporation of all onsite water which would in effect help mirror existing, pre-development groundwater recharge.

Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on- or off-site?

A Drainage Plan has been incorporated into the Specific Plan for the project and is based on the findings in the February 2009 JLC Engineering Hydrology Study referenced above. Proposed drainage facilities are shown on *Figure 5.8-2, On-Site Drainage Plan*. The project site generally drains in a northwesterly direction toward the San Jacinto River, primarily in a sheet flow pattern. The northerly portion of the project site is within the 100-year floodplain. The Drainage Plan provides 100-year flood protection for the project site for the interim and ultimate conditions as described below.

Interim Condition

The interim condition assumes that the off-site area is undeveloped in the existing condition, and the on-site development of the Villages of San Jacinto and corresponding infrastructure is functional. These interim drainage facilities would be developed concurrently with phase I, and are required to control and convey the interim flow rates originating from the off-site area. Interim condition calculations were used to determine the points where flows enter the site and to size the corresponding facilities. Following is a summary of the interim drainage facilities:

- Culvert V, shown on *Figure 5.8-2*, is a proposed culvert south of the Bridge Street and Cawston Avenue intersection that will collect the runoff that overtops the Casa Loma Canal Siphon. The proposed culvert will discharge the runoff into the Line V Channel. The culvert will provide 100-year flood protection for Bridge Street. The ultimate flow rate will substantially decrease once the San Jacinto Master Drainage Plan (MDP) facilities Line D and Casa Loma Basin are constructed.
- Culvert E shown on *Figure 5.8-2* is a proposed culvert located north of the intersection of Sanderson Avenue and the Casa Loma Canal. Based on the current topography, the runoff emanating from the east side of Sanderson Avenue will overtop Sanderson Avenue and enter the project site. As a result, a culvert and earthen channel system have been proposed at the southeast corner of PA 11. These facilities will convey the 100-year flow rate to the Line E system. The San Jacinto MDP proposes drainage system Line E2 will ultimately collect the flows emanating east of Sanderson Avenue.
- The earthen roadway on the land east of Sanderson Avenue, north and south of the intersection of DeAnza Drive and Sanderson Avenue, is not a permitted structure and diverts substantial runoff to the project site, indicated as Off-site Flow 3 on *Figure 5.8-2*.

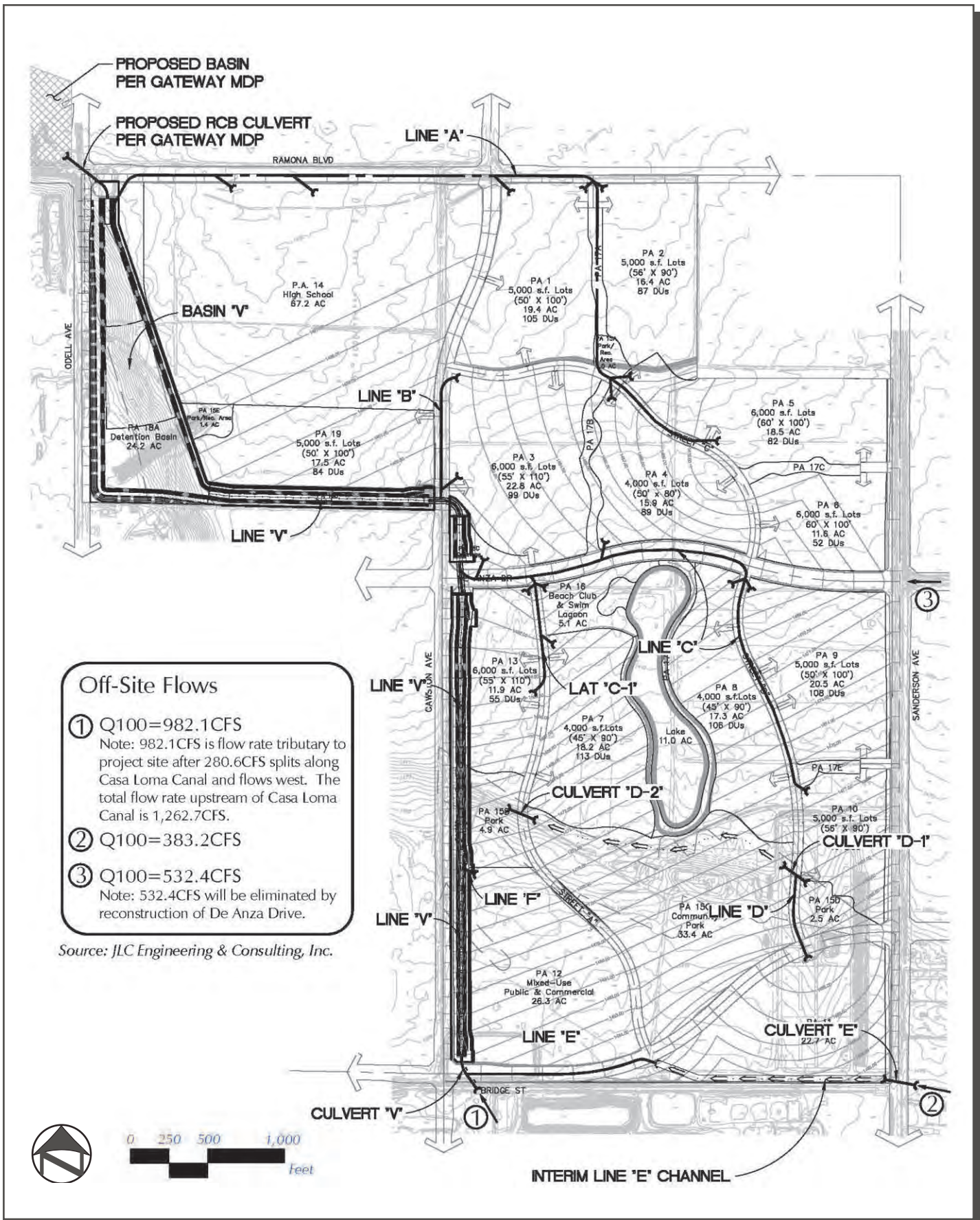
This diversion occurs because the height of the earthen roadway produces a ponding condition south of the earthen roadway, which forces flows to overtop Sanderson Avenue. The roadway will be reconstructed and lowered to an elevation that will eliminate the ponding condition and allow flows to overtop this roadway, thereby eliminating the overtopping condition on Sanderson Avenue.

Ultimate Condition

The ultimate condition assumes that the San Jacinto MDP systems are in place and functional. With these facilities in place, the off-site area that is tributary to the Villages of San Jacinto is reduced to the area between the Casa Loma Canal and Bridge Street.

Figure 5.8-2 provides the locations where the existing off-site runoff enters the project site (1, 2, and 3) and the corresponding 100-year peak flow rate for the interim condition. However, the runoff entering the project site will eventually be eliminated with the implementation of the San Jacinto MDP.

The implementation of the San Jacinto MDP is based on the timing of the development of the surrounding area. As a result, the construction timeline for the proposed San Jacinto MDP drainage facilities is unknown. Consequently, the project incorporates a drainage plan that will not impact upstream and downstream property owners but will provide flood protection for the overall project site. The drainage plan will incorporate a vegetative channel and a detention/water quality basin, which are designated as Line V and Detention Basin V. These two facilities are the major backbone infrastructure that will collect the runoff that emanates from off-site and on-site areas. Line V and Detention Basin V have been designed to convey and control the interim flow rate and ultimate flow rate. As discussed previously, the interim flow rate results in a runoff rate that exceeds the ultimate condition flow rate. The Line V Channel will allow for the connection of several storm drain laterals. The limits of the storm drain laterals are based on the street design policy implemented by the City of San Jacinto and the County of Riverside. These storm drain laterals will provide 100-year flood protection for the on-site planning areas and ensure that downstream properties would not be impacted by increased flows released from the project site.



SOURCE: T&B PLANNING CONSULTANTS, FEBRUARY 2009

Villages of San Jacinto EIR
On-Site Drainage Plan

FIGURE
5.8-2

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Because the San Jacinto MDP facilities would be designed to handle the increase in drainage from the project site once developed, impacts to surface water would not be significant. However, in accordance with San Jacinto requirements, the project shall be required to participate in the San Jacinto River levee financing project (see *Section 5.8.5, Mitigation Measures*, Mitigation Measure 5.8-a).

Would the project create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources or polluted runoff?

As discussed above, the project incorporates a drainage plan that will not impact upstream and downstream property owners but will provide flood protection for the overall project site. Implementation of the San Jacinto MDP is based on the timing of the development of the surrounding area and will further improve drainage systems in the project area.

Would the project place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?

The northern portion of the project site is located within Zone A (100-year floodplain as mapped by FEMA) of the San Jacinto River. Development within the floodplain may result in an impedence to flow and an increase in the base flood elevation. Because a portion of the proposed development is proposed to be constructed within the limits of the 100-year floodplain, development of the proposed project will result in potentially significant impacts relating to flood hazards. As discussed above, the project drainage plan will provide 100-year flood protection for the project site and will not adversely affect downstream properties. However, mitigation is required to have the project removed from the appropriate FEMA floodplain map. In order to avoid impacts, mitigation is provided (see *Section 5.8.5, Mitigation Measures*, Mitigation Measure 5.8-c).

It should be noted that the project site elevation will be raised during grading activities to ensure that future structures are outside of the 100-year floodplain.

Would the project place within a 100-year flood hazard area structures which would impede or redirect flows?

As discussed in preceding responses, the project drainage plan will ensure that adequate flood protection is provided and the placement of new structures would not impede or redirect 100-year flows or result in on-site or off-site flooding as a result of project implementation.

Would the project expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam?

The project would not expose people or structures to a significant flood risk as discussed in the preceding responses. Adequate flood protection will be provided in the absence of the planned San Jacinto River levee project, which will provide additional protection from flooding in the project area.

Would the project otherwise substantially degrade water quality?

The project would not have a significant impact on water quality as discussed in detail in the first impact response above.

5.8.5 Mitigation Measures

- 5.8-a** The project is located within the San Jacinto – Area Drainage Plan (SJ-ADP), which is a financing mechanism used to offset costs for construction of proposed Master Drainage Plan (MDP) facilities. The project will be charged a per-acre fee in order to pay a fair share of the price of area-wide drainage facilities.
- 5.8-b** If dewatering becomes necessary during construction, all discharges shall be in accordance with Santa Ana Regional Water Quality Control Board requirements which mandate that dewatered groundwater be tanked and hauled to a legal disposal site for treatment. Dewatering shall not occur in on-site drainages or water features. In addition, if dewatering becomes necessary during construction, a National Pollution Discharge Elimination System dewatering permit shall be obtained from the Santa Ana Regional Water Quality Control Board.
- 5.8-c** All buildings shall be located outside of the 100-year floodplain. The applicant shall process a Flood Insurance Rate Map (FIRM) map revision. Further, the applicant shall obtain a Conditional Letter of Map Revision (CLOMR) prior to issuance of building permits. The project applicant, or subsequent property owners, shall obtain flood insurance, to the extent required by law, to protect against any damage that might occur during a flood event. It must be noted that at the time of EIR publication, the applicant and City had initiated the CLOMR process with the Riverside County Flood Control and Water Conservation District.

5.8-d During construction, the project will incorporate all City of San Jacinto construction Best Management Practices (BMPs). These BMPs include the following:

- Erosion control BMPs, including temporary seeding and permanent seeding
- Soil stabilization BMPs
- Sediment control BMPs, including silt fence perimeter controls, surface roughening, tree or natural vegetation preservation and protection, temporary gravel construction entrance/exit, temporary diversions, permanent diversions, outlet stabilization, inlet protection, temporary sediment basins, and gravel bay barriers.
- Wind erosion BMPs
- Minimize contact with stormwater BMPs, including BMPs for construction vehicles and equipment maintenance, fueling, and washing; materials maintenance; and construction material loading, unloading, and access area controls.
- Non-stormwater BMPs.

5.8-e The project applicant will need to develop a Stormwater Pollution Prevention Plan (SWPPP) pursuant to NPDES Stormwater Discharge Associated with Construction Activity Guidelines (Water Quality Order 99-08-DWQ). The SWPPP will identify all BMPs that will prevent construction pollutants from contacting stormwater. Measures shall also be designed so as to prevent all products of erosion from moving off site into receiving waters. Provisions will also be included to ensure that BMPs are monitored and success recorded.

5.8-f Structural BMPs are required for new development to improve water quality of stormwater runoff. In order to meet NPDES regulations, the design volume or design flow to be treated must reduce pollutants to the Maximum Extent Practicable (MEP). This project will incorporate a water quality extended detention basin to provide water quality treatment for the runoff emanating from the project site, a volume-based BMP, and a flow-based BMP. Once the project is complete, maintenance will be the responsibility of the Villages of San Jacinto homeowners association.

In addition to sizing techniques, several quantity-control BMPs shall be implemented to control runoff:

- Rainfall shutoff devices shall be used to prevent irrigation during and after precipitation
- Irrigation systems shall utilize a dripping system to eliminate nuisance runoff
- Backflow preventer/pressure regulators shall be installed.

The project applicant will need to develop a Water Quality Management Plan pursuant to NPDES Permit No. CAS 618033, order No. R8-2002-001. The Water Quality Management Plan will identify all final site BMP requirements.

The following BMPs may be incorporated into final site designs:

- Construct community streets, sidewalks, and parking lot aisles to the minimum widths necessary
- Incorporate landscape treatment for parking lot runoff
- Use unit pavers or other equivalent porous material to construct walkways, alleys, and other low-traffic areas
- Utilize trees in landscaping plans to maximize canopy interception and water conservation
- Plant native trees and maximize canopy interception and water conservation
- Drain rooftops into adjacent landscaping prior to discharging to the storm drain
- Vegetate slopes with native or drought tolerant vegetation
- Install energy dissipaters at the outlets of new storm drains that enter the regional storm drain system that eventually feeds into the San Jacinto River.
- Utilize and install “high to medium efficiency” Post Construction BMP filtration system within the proposed water quality basin that would help reduce as many bacteria and viruses as possible from entering the downstream local stormwater collection system. This system must follow the specifications of the California Stormwater Handbook to ensure that the system provides maximum bacteria/viral capture.

5.8.6 Residual Impacts/Level of Significance after Mitigation

After application of the proposed mitigation measures, any potentially significant impacts relating to hydrology, groundwater, or water quality that are attributable to the development and operation of the proposed project would be reduced to a level below significant. Therefore, no significant unavoidable impacts are expected.

5.9 TRANSPORTATION, CIRCULATION, AND ACCESS

5.9.1 Introduction and Methodology

The following analysis of potential traffic, circulation and access impacts associated with project implementation is based on *the Villages of San Jacinto Traffic Impact Analysis* prepared by Urban Crossroads, April 24, 2009, included in *Appendix H* of this report. This latest report is an update of the May 23, 2005, Traffic Impact Analysis prepared by Urban Crossroads for the April 2006 DEIR. The original report was revised to reflect changes in project land uses, revised phasing plan, and revisions to the Mid-County Parkway southerly alignment within the project study area.

The traffic study analyzes the potential impacts of cumulative conditions representing the phased occupancy timing of the project, including Phase I, year 2015; Phase II, Year 2017; Phase III, Year 2023; and General Plan build-out conditions in Year 2035. The traffic impact analysis documents existing traffic conditions in the vicinity of the project site, Existing Plus Ambient Plus Project conditions for Phase I, Phase II and Phase III conditions; Existing Plus Ambient Plus Cumulative conditions (EAC 2015); Existing Plus Ambient Plus Cumulative plus Phase I conditions (EACP 2015); Existing Plus Ambient Plus Cumulative conditions (EAC 2017); Existing Plus Ambient Plus Cumulative Plus Phase I and Phase II conditions (EACP 2017); Existing Plus Ambient Plus Cumulative conditions (EAC 2023); Existing Plus Ambient Plus Cumulative Plus Phases I through III conditions (EACP 2023); evaluation of General Plan build-out (2035) with project conditions; and identifies on-site and off-site improvements and system management actions to achieve adequate level of service requirements as required by the City of San Jacinto.

The traffic analysis utilizes information obtained from City of San Jacinto staff to define the study area intersections and identify other development and area-wide growth calculations used in traffic counts. Due to the project's size and phased implementation plan, the traffic analysis was reflective of the phasing plan. Because the mitigation measures will be implemented as the project is constructed and traffic improvements become necessary, the phasing plan is reflected in the on-site mitigation measures. The City of San Jacinto and Riverside County General Plan Circulation Elements were used to identify the regional and City street network and roadway cross-sections in the study area. The traffic study has been prepared in conformance with the goals and requirements of the San Jacinto General Plan Circulation Element. Traffic operations and level of service conditions were evaluated pursuant to the 2000 Highway Capacity Manual (HCM).

As indicated in *Section 3.0, Project Description*, the proposed project would result in 1,016 low to medium density single-family dwelling units, a 2,000 student-high school, 247,000 square feet

of neighborhood retail commercial uses, 343,000 square feet of mixed-use development and approximately 43 acres of park land. However, in the event that the high school is not built, an additional 313 single-family housing units would be constructed, which would result in the potential for 1,329 units to be developed on site. While on the surface it may seem that the 1,329 unit count scenario would result in more traffic, traffic analyses are based on peak hour measurements, which for this project, would be more trip-intensive in the school scenario. Therefore, this traffic analysis reflects the 1,016 unit project with high school scenario, in order to provide the public with a "worst case scenario."

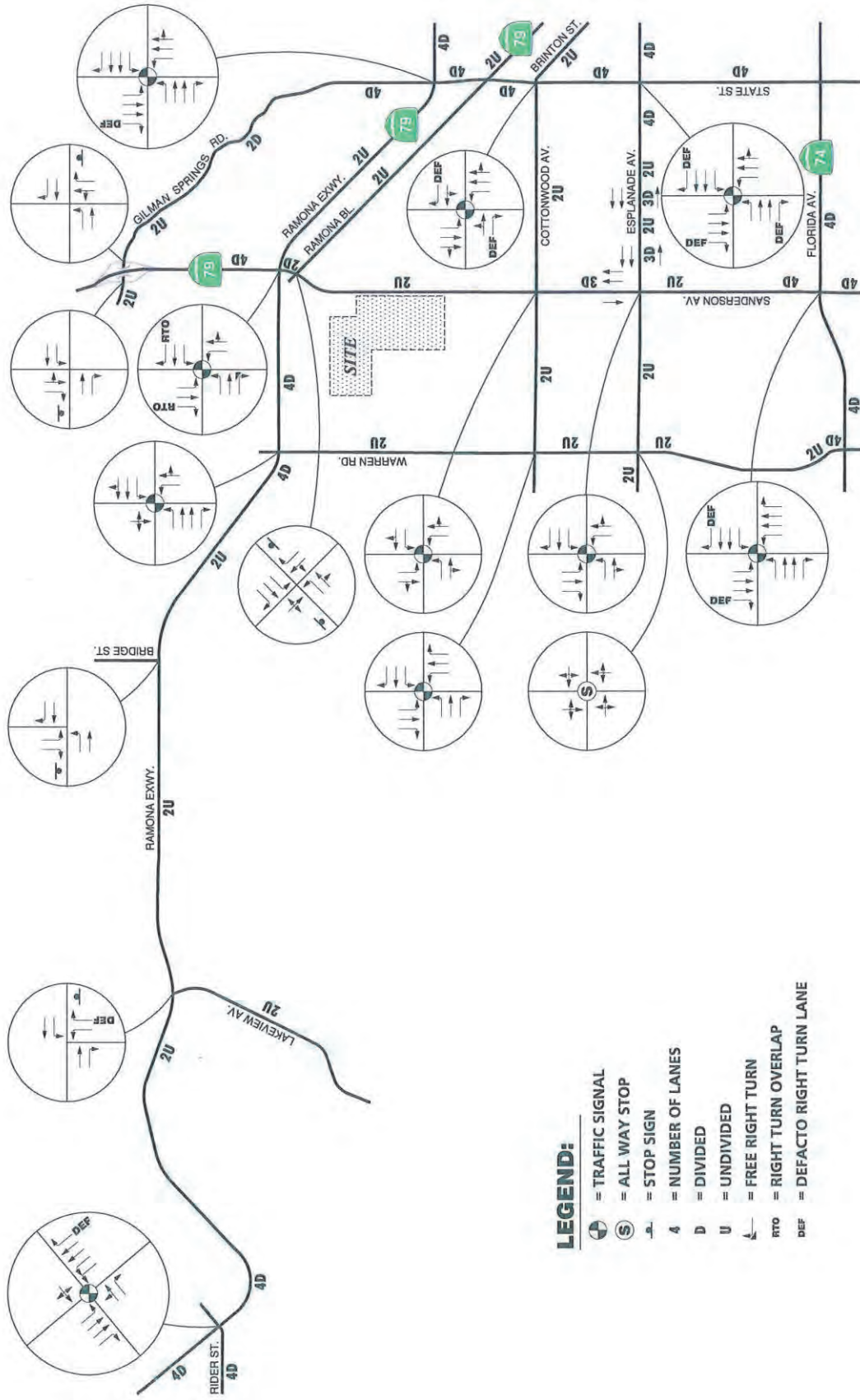
5.9.2 Existing Conditions

The project site is generally located south of Ramona Expressway and directly west of North Sanderson Avenue in the City of San Jacinto. North Sanderson Avenue is identified as an urban arterial roadway in the City of San Jacinto General Plan Circulation Element. *Figure 5.9-1, Existing Lane and Intersection Conditions*, illustrates the primary roadway components of the study area street network and identifies the number of traffic lanes for each roadway and existing intersection traffic controls.

Intersection Conditions

Traffic flow on arterial streets is most constrained at intersections; therefore, the traffic analysis focuses on the operating conditions of critical intersections during peak travel periods. The traffic report utilized information obtained from City of San Jacinto Transportation staff to identify the key intersections within the study area for analysis. The following intersections were analyzed in this study:

- Rider Street (NS) at:
 - Ramona Expressway (EW)
- Lakeview Avenue (NS) at:
 - Ramona Expressway (EW)
- Bridge Street (NS) at:
 - Ramona Expressway (EW)
- Warren Road (NS) at:
 - Ramona Expressway (EW)
 - Cottonwood Avenue (EW)
 - Esplanade Avenue (EW)



SOURCE: URBAN CROSSROADS, MARCH 2009

FIGURE 5.9-1

**Villages of San Jacinto EIR
Existing Lane and Intersection Conditions**

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- Sanderson Avenue (NS) at:
 - Gilman Springs Road SB Ramps (EW)
 - Gilman Springs Road NB Ramps (EW)
 - Ramona Expressway (EW)
 - Ramona Boulevard North (EW)
 - Cottonwood Avenue (EW)
 - Esplanade Avenue (EW)
 - Florida Avenue (SR-74) (EW)
- State Street (NS) at:
 - Ramona Expressway (EW)
 - Cottonwood Avenue (EW)
 - Esplanade Avenue (EW).

The existing conditions of each intersection listed above are characterized by Average Daily Trip (ADT) volumes and Level of Service (LOS) ratings. *Figure 5.9-2, Existing Traffic Volumes*, illustrates existing ADT volumes on arterial streets in the study area. *Figure 5.9-3, Existing AM Peak Hour Intersection Volumes*, and *Figure 5.9-4, Existing PM Peak Hour Intersection Volumes*, depict the distribution of existing ADT volumes on the study area roadway system. Existing ADT volumes are based on direct machine counts or factored from peak hour counts conducted for Urban Crossroads, Inc. in conjunction with the project traffic study.

In evaluating the existing intersection conditions, a "Level of Service (LOS)" rating, which consists of A through F, is used. LOS A indicates excellent conditions of uninterrupted free-flow traffic operations and LOS F indicates poor conditions of interrupted flow and congested operations (gridlock). Complete definitions of LOS categories are included in the Traffic Impact Analysis, included in *Appendix H* to this EIR. Different factors are considered in determining LOS for each intersection and are dependent on the type of intersection control used (i.e., signal, street stop, etc.). For signalized intersections, average total delay per vehicle for the overall intersection is used to determine level of service. For stop sign-controlled intersections, the calculation of LOS is dependent on the occurrence of gaps occurring in the traffic flow of the main street. For all way stop controlled intersections, the LOS criteria for this type of intersection analysis are also based on average total delay per vehicle for the overall intersection. The traffic analysis considers LOS D to be the minimum acceptable operating condition for intersections consistent with the adopted standards of the City of San Jacinto.

For the project area, traffic demands are highest at key intersections during the A.M. and P.M. peak hour periods. *Table 5.9-1, Existing Intersection Conditions* summarizes the results of evaluating existing peak hour traffic operations for intersections in the study area, and includes information relative to each intersection's geometrics, traffic control device and existing LOS.

**Table 5.9-1
Existing Intersection Conditions**

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE	
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM
		L	T	R	L	T	R	L	T	R	L	T	R				
Rider Street (NS) at: • Ramona Expressway (EW)	TS	0.5	0.5	1	0	1!	0	1	2	1	2	2	1	20.8	20.6	C	C
Lakeview Ave. (NS) at: • Ramona Expressway (EW)	CSS	1	0	1	0	0	0	0	1	1	1	1	0	38.3	30.3	E	D
Bridge Street (NS) at: • Ramona Expressway (EW)	CSS	0	0	0	1	0	1	1	1	0	0	1	1	22.2	26.4	C	D
Warren Rd. (NS) at: • Ramona Expressway (EW) • Cottonwood Ave. (EW) • Esplanade Ave. (EW)	TS TS AWS	1	1	0	0	1!	0	1	2	1	1	2	0	18.2	21.4	B	C
Sanderson Ave. / SR-79 SB Ramps (NS) at: • Gilman Springs Rd (EW)	CSS	0	0	0	0.5	0.5	1	0	1	1	1	1	0	24.0	67.9	C	F
Sanderson Ave. / SR-79 NB Ramps (NS) at: • Gilman Springs Rd (EW)	CSS	0.5	0.5	1	0	0	0	1	1	0	0	1	1	32.4	32.6	D	D
Sanderson Ave. (NS) at: • Ramona Expressway (EW) • Ramona Blvd. (EW) • Cottonwood Ave. (EW) • Esplanade Ave. (EW) • Florida Ave. (EW)	TS CSS TS TS TS	1	1	0	1	1	1>	1	1	1>>	1	1	1>	56.0	45.3	E	D
		1	1	0	1	1	1	0	1!	0	0.5	0.5	1	25.1	35.3	D	E
		1	1	0	1	1	0	1	1	0	1	1	0	10.6	10.6	B	B
		1	1	0	1	1	1	1	1	0	1	1	1	23.7	30.5	C	C
		1	2	1	1	2	1	1	2	1	1	2	1	32.2	43.8	C	D
Slate St. (NS) at: • Ramona Expressway (EW) • Cottonwood Ave. (EW) • Esplanade Ave. (EW)	TS TS TS	1	2	0	1	2	1	1	2	1	1	2	1	30.5	35.5	C	D
		1	2	0	1	2	0	0.5	0.5	1	0.5	0.5	1	36.5	34.6	D	C
		1	2	0	1	2	1	1	2	1	1	2	1	30.2	31.6	C	C

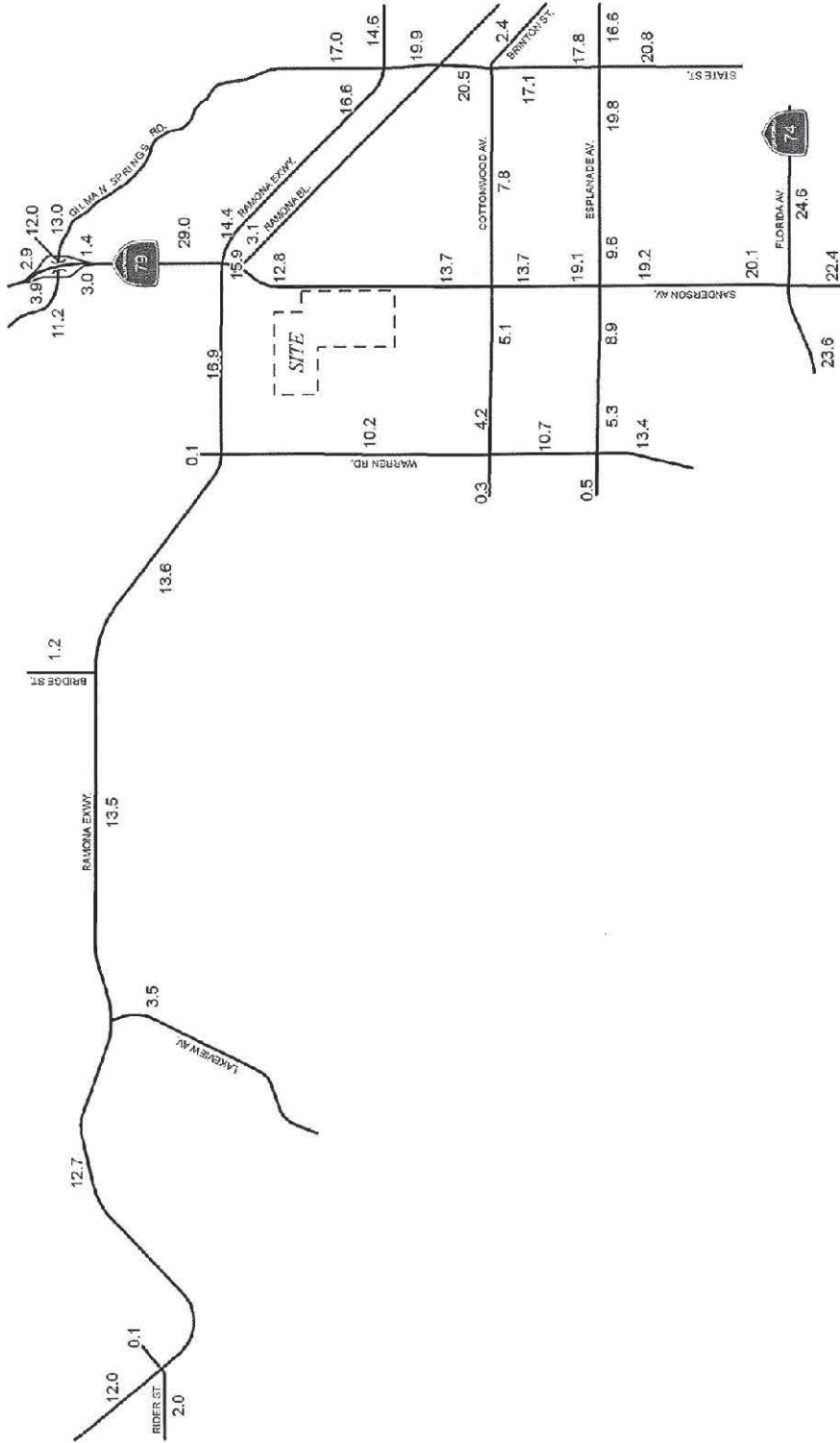
¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1! = Left-Thru-Right Lane; 1> = Right Turn Overlap; 1>> = Free-Right Turn Lane

² Delay and level of service calculated using the following analysis software: Traffix, Version 7.9 R4 (2008). Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for worst individual movement (or movements sharing a single lane) are shown.

³ TS = Traffic Signal
CSS = Cross Street Stop
AWS = All Way Stop

SOURCE: Table 3-1, Intersection Analysis for Existing Conditions, April 24, 2009 Urban Crossroads Traffic Report (see Appendix H)

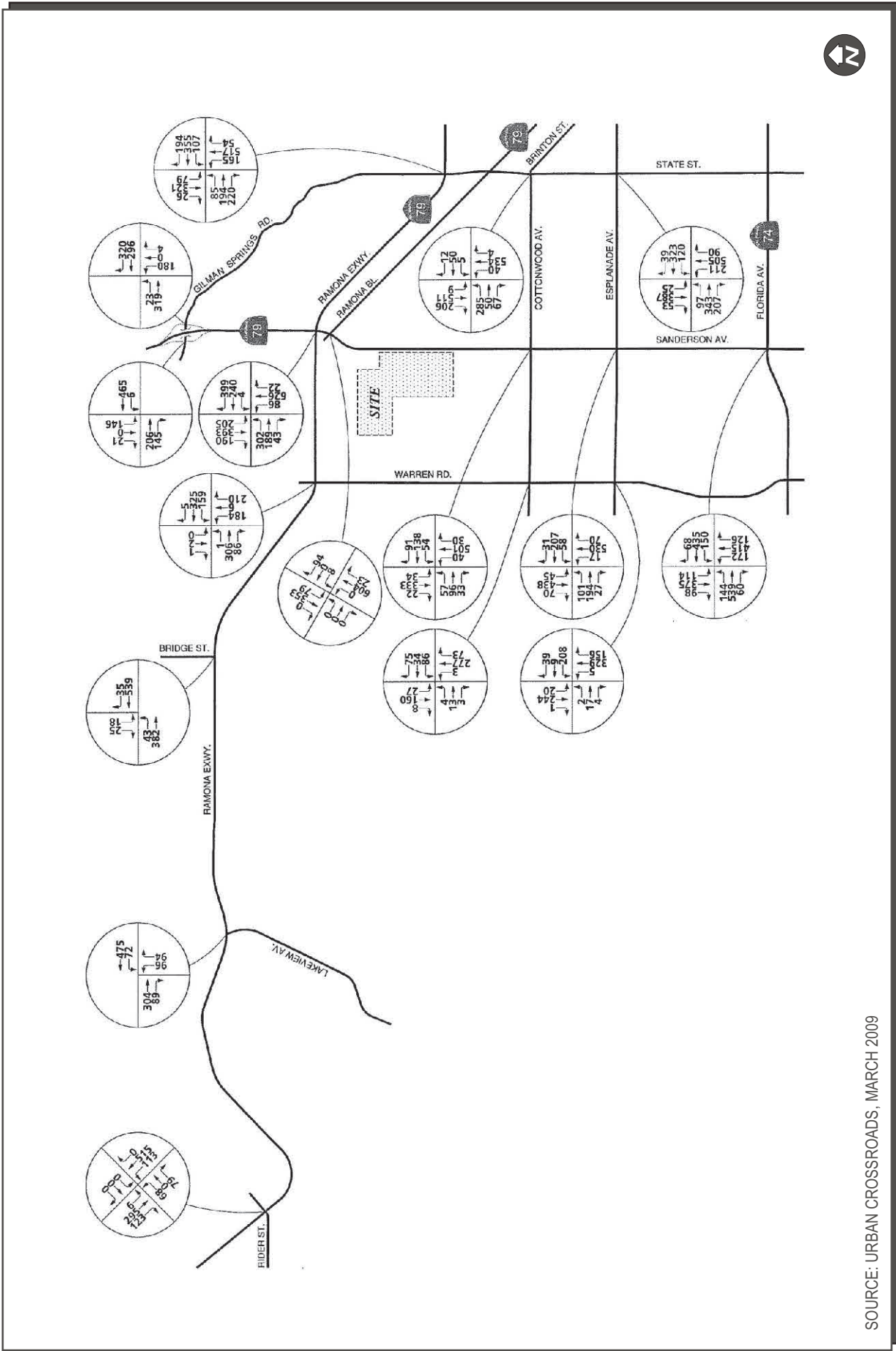


SOURCE: URBAN CROSSROADS, MARCH 2009

FIGURE 5.9-2

**Villages of San Jacinto EIR
Existing Traffic Volumes**

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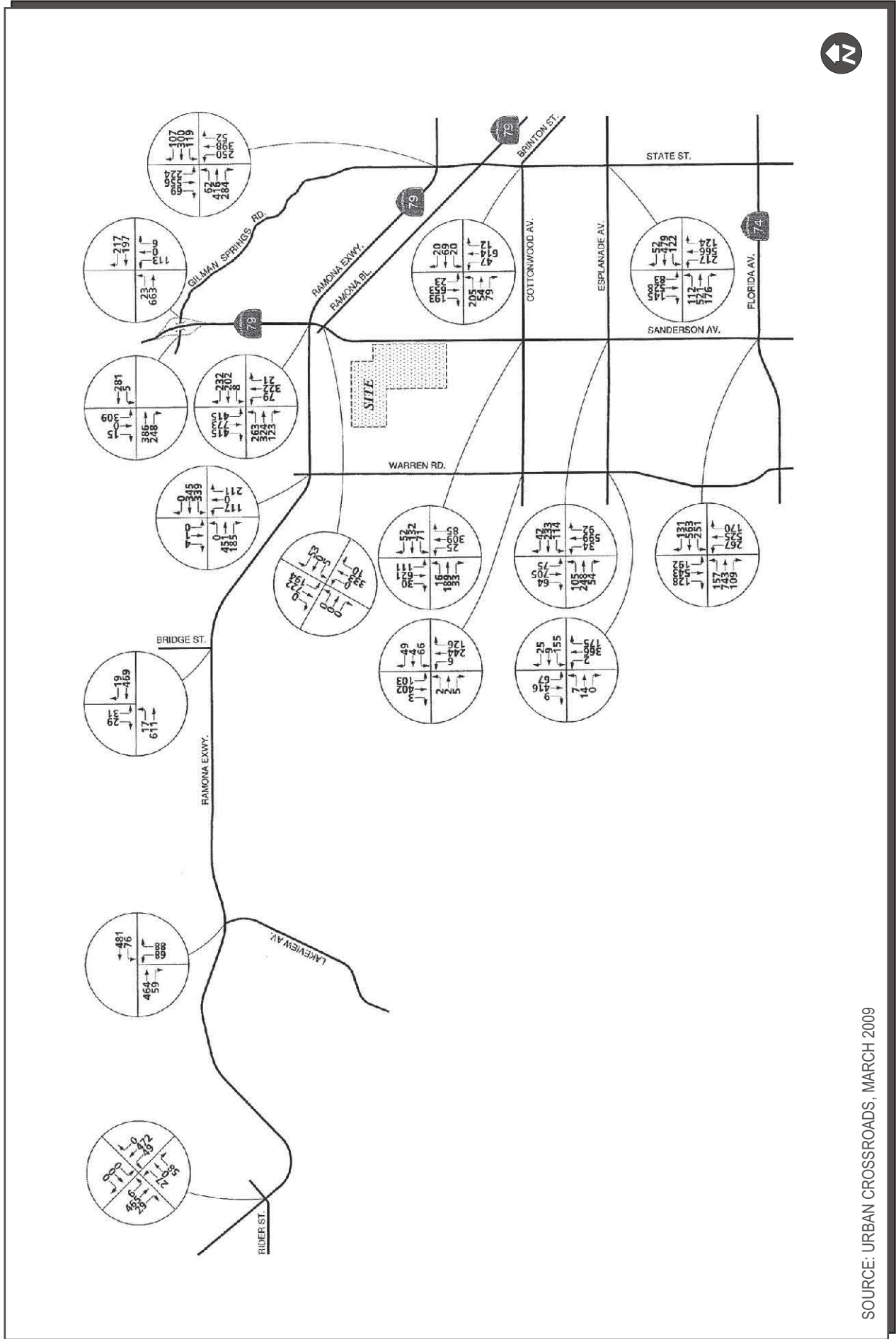


SOURCE: URBAN CROSSROADS, MARCH 2009

FIGURE 5.9-3

Villages of San Jacinto EIR
Existing AM Peak Hour Intersection Volumes

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SOURCE: URBAN CROSSROADS, MARCH 2009

FIGURE 5.9-4

**Villages of San Jacinto EIR
Existing PM Peak Hour Intersection Volumes**

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The data presented in *Table 5.9-1, Existing Intersection Conditions* indicates that the following intersections are currently operating at an unacceptable LOS (LOS E or lower):

- Lakeview Avenue (NS) at:
 - Ramona Expressway (EW)
- Sanderson Avenue (SR-79 SB Ramps) (NS) at:
 - Gilman Springs Road SB (EW)
- Sanderson Avenue (NS) at:
 - Ramona Expressway (EW)
 - Ramona Boulevard (EW).

The above outlined existing traffic conditions warrant traffic signals at the following study area intersections:

- Lakeview Avenue (NS) at:
 - Ramona Expressway (EW)
- Warren Road (NS) at:
 - Esplanade Avenue (EW)
- Sanderson Avenue (SR-79 SB Ramps) (NS) at:
 - Gilman Springs Road (EW)
- Sanderson Avenue (SR-79 NB Ramps) (NS) at:
 - Gilman Springs Road (EW).

Alternative Transportation

Public bus service in the project vicinity is provided by the Riverside Transit Agency. Three bus routes operate within the City of San Jacinto. However, there are currently no transit facilities or designated bikeways operating in the study area.

Regulatory Framework

The Western Riverside Council of Governments (WRCOG) is a council which is comprised of members representing 15 local jurisdictions in western Riverside County, including the City of San Jacinto. The WRCOG functions to facilitate collective assessment of regional issues, such as traffic, by the various representative jurisdictions. In June 2004 WRCOG adopted the

Transportation Uniform Mitigation Fee (TUMF) 10-Year Strategic Plan and Transportation Improvement Program Development Guidelines.

The purpose of the TUMF program is to establish a comprehensive funding source for infrastructure improvements to mitigate cumulative regional transportation impacts of new development on regional arterial highways (Parsons Brinckerhoff Quade & Douglas, Inc., June 2004). The TUMF program has 5 primary goals that are articulated as a basis for developing specific project priorities and selection criteria. These goals are summarized as follows:

- ***Sustain Mobility*** – Mitigate the transportation system impacts of new development
- ***System Continuity*** – Enhance the continuity of the regional arterial highway system
- ***Project Development*** – Encourage systematic project development and provide flexibility to advance TUMF projects promptly through completion
- ***Leverage Funds*** – Secure additional matching funds for TUMF system improvements
- ***Regional Benefit*** – Ensure TUMF program revenues are distributed to maximize mitigation of new development impacts.

The TUMF program is intended to address cumulative traffic impacts of new development to the region and therefore TUMF program funded improvements are focused primarily on regional arterial highways. New development in Western Riverside County places additional demand on the regional transportation system to provide safe and convenient access for new residents and employees. The additional demand on the transportation facilities reduces mobility absent adequately and timely funded infrastructure improvements implemented to meet growing demands. As such, WRCOG has developed and implemented the TUMF program which requires new development to contribute revenues to partially fund improvements that will mitigate the transportation impacts of new developments. TUMF investments are then focused on those regional facilities most impacted by new development. The TUMF program assigns impact fees on a per dwelling unit basis for residential development and a per square foot basis for non-residential uses (i.e., commercial, industrial, office).

The City of San Jacinto also implements a Development Impact Fee (DIF) which consists of a "Streets and Roads" component and a "Traffic Signals" Component. The DIF program assigns impact fees on a "per acre" basis for non-residential development and a per unit basis for residential development. Fee calculations for both the TUMF and DIF programs are shown in *Section 5.9.5*.

5.9.3 Significance Criteria

Based on the criteria identified in Appendix G of the CEQA Guidelines, the proposed project would have a significant impact on transportation, circulation and access if it:

1. Would cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)
2. Would exceed, either individually or cumulatively, a level of service standard established by the County Congestion Management Agency for designated roads or highways
3. Would result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks
4. Would substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)
5. Would result in inadequate emergency access
6. Would result in inadequate parking capacity
7. Would conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks).

5.9.4 Impacts

Would the project cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?

Would the project exceed, either individually or cumulatively, a level of service standard established by the County Congestion Management Agency for designated roads or highways?

Project Traffic

In order to characterize potential traffic impacts associated with the project, a characterization of the project's contribution to local traffic levels must occur. Site traffic is characterized by trip generation, trip distribution, modal split, and trip assignment.

As indicated in *Section 5.9.1*, the proposed project's "worst case" traffic impact scenario would be a land use scenario that includes construction of the planned high school, in effect a 1,016-unit development. Trip generation rates are based upon the proposed land use plan and data collected by the Institute of Traffic Engineers (ITE), *Trip Generation Manual, 7th Edition*. Trip generation rates for each proposed land use are shown in *Table 5.9-2, Project Trip*

Generation Rates, while daily and peak hour traffic generated by the proposed project is shown in Table 5.9-3, Trip Generation Summary.

**Table 5.9-2
Project Trip Generation Rates**

LAND USE	ITE CODE	QUANTITY	UNITS ²	PEAK HOUR TRIP RATES						DAILY
				AM			PM			
				IN	OUT	TOTAL	IN	OUT	TOTAL	
Single-Family Detached	210	Varies	DU	0.19	0.56	0.75	0.64	0.37	1.01	9.57
Park	SANDAG ³	Varies	AC	3.25	3.25	6.50	2.25	2.25	4.50	50.00
High School	530	2,000	STU	0.28	0.13	0.41	0.07	0.07	0.14	1.71
Commercial/Retail	820	247.20	TSF	0.66	0.42	1.08	2.21	2.39	4.6	49.47
PLANNING AREA 12										
Commercial/Retail (10% of PA12)	820	34.37	TSF	1.46	0.94	2.4	4.32	4.68	9.00	98.69
Government Office Complex (30% of PA12)	733	103.11	TSF	1.97	0.24	2.21	0.88	1.97	2.85	27.92
Professional Office (60% of PA12)	710	206.21	TSF	1.43	0.19	1.62	0.26	1.25	1.51	11.29

¹ Source: ITE (Institute of Transportation Engineers) Trip Generation Manual, 7th Edition, 2003.

² DU = Dwelling Units
STU = Students
TSF = Thousand Square Feet
AC = Acres

³ SANDAG = Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region. April 2002.

**Table 5.9-3
Trip Generation Summary**

LAND USE	QUANTITY	UNITS ¹	PEAK HOUR						DAILY
			AM			PM			
			IN	OUT	TOTAL	IN	OUT	TOTAL	
YEAR 2015 - PHASE 1									
Single-Family Detached	431	DU	82	241	323	276	159	435	4,125
Park	45.9	AC	149	149	298	103	103	206	2,295
PHASE 1 Subtotal			231	390	621	379	262	641	6,420
- internal capture ²			-19	-19	-38	-18	-18	-36	-496
PHASE 1 TOTAL			212	371	583	361	244	605	5,924
YEAR 2017 - PHASE 2									
Single-Family Detached	322	DU	61	180	241	206	119	325	3,082
PHASE 2 Only Subtotal			61	180	241	206	119	325	3,082
PHASE 1 + 2 Subtotal (no internal capture)			292	570	862	585	381	966	9,502
- internal capture ²			-34	-34	-68	-31	-31	-62	-552
PHASE 1 + 2 TOTAL			258	536	794	554	350	904	8,950
YEAR 2023 - PHASE 3 (AM & Daily = 263 DUs + HS; PM = 263 DUs + 322 DUs)									
Single-Family Detached	263	DU	50	147	197	168	97	266	2,517
High School	2,000	STU	560	260	820	USE SFDU (313DUs)			3,420
Single-Family Detached	313	DU	USE HIGH SCHOOL			200	116	316	USE HS
PHASE 3 Only Subtotal			610	407	1,017	368	213	582	5,937
PHASE 1 + 2 + 3 Subtotal (no internal capture)			902	977	1,879	953	594	1,548	15,439
- internal capture ²			-111	-111	-222	-36	-36	-72	-896
PHASE 1 + 2 + 3 TOTAL			791	866	1,657	917	558	1,476	14,543
YEAR 2033 (GP Buildout) - PHASE 4									
Commercial/Retail (PA11)	247.20	TSF	163	104	267	546	591	1,137	12,229
Commercial/Retail (10% of PA12)	34.37	TSF	50	32	82	148	161	309	3,392
Government Office Complex (30% of PA12)	103.11	TSF	203	25	228	91	203	294	2,879
Professional Office (60% of PA12)	206.21	TSF	295	39	334	54	258	311	2,328
PHASE 4 Subtotal			711	200	911	839	1,213	2,051	20,828
PHASE 1 + 2 + 3 + 4 Subtotal (no internal capture)			1,613	1,177	2,790	1,792	1,807	3,599	36,267
- internal capture ²			-113	-113	-226	-316	-316	-632	-5,916
- Phase 4 pass-by (shopping center only) (25%) ³			-30	-30	-59	-143	-143	-285	-3,185
NET EXTERNAL TRIPS TOTAL			1,470	1,034	2,505	1,333	1,348	2,682	27,166

¹ DU = Dwelling Units
STU = Students
AC = Acres
TSF = Thousand Square Feet

² Internal Capture is the reduction of the overall traffic due to the compatibility of land uses (proposed residential, high school, park, office, and shopping center) within the project site.

³ "Pass-By" reduction rates have been used to account for traffic that will access the site as an intermediate stop on the way to a primary destination.

Due to the size and diversity of land uses of the proposed project a certain portion of the anticipated ADT will simply circulate internally rather than exit the development to travel to other destinations. This factor, deemed "internal capture," would include vehicle trips from the residential areas to school, residential areas to shopping center and residential areas to the mixed-use area. The number of internal capture trips was calculated for each building phase of the project. As shown in *Table 5.9-3*, the project is estimated to generate a total of 27,166 net external ADT for all four phases after accounting for internal trips and "pass-by" trips (i.e., traffic that will access the site on the way to another primary destination).

Trip distribution represents the directional orientation of traffic to and from the project site. Trip distribution is heavily influenced by the geographical location of the site, the location of employment, commercial and recreational opportunities and the proximity to the regional freeway system. Trip distribution for this project is based upon near-term conditions which include those roadway facilities which are either in place or are expected to be in place over the next several years. Roadway construction and improvements that are assumed to be in place in conjunction with each phase of the project are detailed in Section 4.2 of the Traffic Impact Analysis in *Appendix H*.

Due to the lack of anticipated public transit facilities within this portion of the City of San Jacinto, the traffic-reducing impact of public transportation facilities has not been considered for this project. Should transit facilities become a part of this area, they would in effect reduce traffic levels and reduce anticipated impacts described herein.

The assignment of traffic from the site to the adjoining roadway system has been based upon the site's trip generation, trip distribution, proposed arterial highway system and local street systems. Project generated traffic is then combined with background traffic and projected future traffic to estimate impacts on the study area roadways as described below.

Cumulative Traffic

In order to fully address traffic impacts, an impact analysis assuming the ultimate build out of other planned projects (cumulative projects), must be performed. These projects were based on information provided by the City of San Jacinto and County of Riverside and include projects that are under construction or are under review in the project area.

Several cumulative projects were identified for this analysis and have been divided into 28 traffic analysis zones (TAZ). *Table 5.9-4, 2023 Cumulative Project Trip Generation*, provides a summary of the total anticipated units (if residential) or square footage (if commercial) and daily AM and PM peak hour trips assumed in each TAZ based on known project information. Daily and peak hour trips that would be generated by the additional development proposals in the study area were calculated and the projected generated traffic was distributed and assigned to the study area street system.

**Table 5.9-4
2023 Cumulative Project Trip Generation**

TAZ	PROJECT NAME	LAND USE	QUANTITY	UNITS ¹	PEAK HOUR						DAILY
					AM			PM			
					IN	OUT	TOTAL	IN	OUT	TOTAL	
1	SP 1-01										
	- TR 30033	SFDR	146	DU	28	82	110	93	54	147	1,397
	- TR 30034	SFDR	50	DU	10	28	38	32	19	51	479
	- TR 30035	SFDR	74	DU	14	41	55	47	27	74	708
	- TR 30036	SFDR	104	DU	20	58	78	67	38	105	995
	- TR 30084	SFDR	111	DU	21	62	83	71	41	112	1,062
	- PM 30090	SFDR	5	DU	1	3	4	3	2	5	48
Subtotal					84	274	358	313	181	494	4,689
2	TR 31037	SFDR	131	DU	25	73	98	84	48	132	1,254
	TR 31282	SFDR	274	DU	52	153	205	175	101	276	2,622
	TR 31154	SFDR	135	DU	26	76	102	86	50	136	1,292
	TR 31900	SFDR	112	DU	21	63	84	72	41	113	1,072
	TR 33072	SFDR	140	DU	27	78	105	90	52	142	1,340
	TR 33138	SFDR	28	DU	5	16	21	18	10	28	268
	VTR 31384	SFDR	48	DU	9	27	36	31	18	49	459
	TR 33249	SFDR	25	DU	5	14	19	16	9	25	239
	TR 34364	SFDR	8	DU	2	4	6	5	3	8	77
Subtotal					172	504	676	577	332	909	8,523
3	TR 30814	SFDR	155	DU	29	87	116	99	57	156	1,483
	TR 30481	SFDR	126	DU	24	71	95	81	47	128	1,206
	TR 31555	SFDR	115	DU	22	64	86	74	43	117	1,101
	TR 30813 (25% completed)	SFDR	186	DU	35	104	139	119	69	188	1,780
	TR 30335	SFDR	69	DU	13	39	52	44	26	70	660
	TR 30944	SFDR	103	DU	20	59	79	66	38	104	986
Subtotal					143	423	566	489	280	763	7,216
4	VTR 31097	SFDR	214	DU	41	120	161	137	79	216	2,048
	TR 31293	SFDR	100	DU	19	56	75	64	37	101	957
	TR 29384 (41% completed)	SFDR	39	DU	7	22	29	25	14	39	373
	TR 31246	SFDR	128	DU	24	72	96	82	47	129	1,225
	TR 33106	SFDR	15	DU	3	8	11	10	6	16	144
Subtotal					94	278	372	318	183	501	4,747
5	TR 30878	SFDR	170	DU	32	95	127	109	63	172	1,627
Subtotal					94	278	372	318	183	501	4,747
6	TR 32250	SFDR	53	DU	10	30	40	34	20	54	507
	TR 30559 (85% completed)	SFDR	20	DU	4	11	15	13	7	20	191
	TR 31929	SFDR	78	DU	15	44	59	50	29	79	746
	Subtotal					29	85	114	97	56	153
7	Holgate / Hopkins (VPM 31281)	Commercial	500.0	TSF	250	160	410	870	940	1,810	19,330
		- pass by (commercial) (25%) ⁴			-63	-40	-103	-218	-235	-453	-4,833
		Industrial	62.5	TSF	75	14	89	19	62	81	798
	TOTAL (Holgate / Hopkins)				262	134	396	671	767	1,438	15,295
	Scott Martin (PM 31522)	Commercial	200.0	TSF	144	92	236	474	514	988	10,656
		- pass by (commercial) (25%) ⁴			-36	-23	-59	-119	-129	-248	-2,664
		Industrial	250.0	TSF	300	58	358	75	248	323	3,190
	TOTAL (Scott Martin)				408	127	535	430	633	1,063	11,182
	Bahan Hopkins / Real Estate Group	SFDR	500	DU	95	280	375	320	185	505	4,785
		Commercial	1,100.00	TSF	407	263	660	1463	1584	3,047	32,274
		- internal capture ³			-38	-38	-76	-197	-197	-394	-1,699
		- pass by (commercial) (25%) ⁴			-102	-63	-165	-366	-396	-762	-8,069
	TOTAL (Bahan Hopkins)				362	432	794	1220	1176	2,396	27,291
	SJ 106, LLC	SFDR	324	DU	61	180	241	205	119	324	3,072
		Commercial	250.0	TSF	165	105	270	550	585	1,145	12,320
- internal capture ³				-15	-15	-30	-114	-114	-228	-1,061	
- pass by (commercial) (25%) ⁴				-41	-26	-67	-138	-149	-287	-3,080	
TOTAL (SJ 106, LLC)				170	244	414	503	451	954	11,251	
Target Center (100%)	Commercial	771.00	TSF	324	208	532	1157	1257	2414	25,620	
	- pass by (commercial) (25%) ⁴			-81	-52	-133	-289	-314	-603	-6,405	
	TOTAL (Target Center)				243	156	399	868	943	1811	19,215
McCleish Group (Record Family)	Commercial	200.00	TSF	144	92	236	474	514	988	10,656	
	- pass by (commercial) (25%) ⁴			-36	-23	-59	-119	-129	-248	-2,664	
	TOTAL (McCleish Group)				108	69	177	355	385	740	7,992
TOTAL (TAZ 7)					1,553	1,162	2,715	2,047	1,355	14,024	132,226
8	TR 30803	SFDR	203	DU	39	114	153	130	75	205	1,943
	TR 22865	SFDR	147	DU	28	82	110	94	54	148	1,407
TOTAL (TAZ 8)					67	196	263	224	129	353	3,350

Table 5.9-4 (Continued)

TAZ	PROJECT			QUANTITY	UNITS ¹	PEAK HOUR						
	NAME	LAND USE	AM			PM			DAILY			
			IN			OUT	TOTAL	IN		OUT	TOTAL	
9	TR 29917	SFDR	134	DU	25	75	100	86	50	136	1,292	
	TR 30639	SFDR	92	DU	17	52	69	59	34	93	860	
	TR 31794	SFDR	62	DU	12	35	47	40	23	63	593	
	TR 32518	SFDR	34	DU	6	19	25	22	13	35	325	
TOTAL (TAZ 9)					60	181	241	207	120	327	3,080	
10	TR 29992	SFDR	30	DU	6	17	23	19	11	30	287	
	TR 30884	SFDR	14	DU	3	8	11	9	5	14	134	
	TR 33509	SFDR	37	DU	7	20	27	23	13	36	345	
TOTAL (TAZ 10)					16	45	61	51	29	80	766	
11	VTR 30464	SFDR	117	DU	22	66	88	75	43	118	1,120	
	TR 31566	SFDR	61	DU	12	34	46	39	23	62	584	
TOTAL (TAZ 11)					34	100	134	114	66	180	1,704	
12	TR 32053	SFDR	178	DU	34	100	134	114	66	180	1,703	
	TR 31036 (19% completed)	SFDR	108	DU	21	80	81	69	40	109	1,034	
TOTAL (TAZ 12)					55	180	215	183	106	289	2,737	
13	TR 30644 (55% completed)	SFDR	66	DU	13	37	50	42	24	66	632	
	TR 31035	SFDR	77	DU	15	43	58	49	28	77	737	
	TR 32376	SFDR	337	DU	64	199	253	216	125	341	3,225	
	TOTAL (TAZ 13)					92	289	361	307	177	4,694	
14	Shea Homes (TR 31886)	SFDR	321	DU	61	180	241	205	119	324	3,072	
	TR 32843	SFDR	143	DU	27	80	107	92	53	145	1,359	
	PM 30592	SFDR	2	DU	0	1	1	1	1	2	19	
	TR 32555	SFDR	12	DU	2	7	9	8	4	12	115	
TOTAL (TAZ 14)					90	268	358	306	177	4,576		
15	SP 1-03 (TR 30598)	SFDR	580	DU	110	325	435	371	215	586	5,551	
	TR 32080	SFDR	53	DU	10	30	40	34	20	54	507	
	TR 29341	SFDR	251	DU	48	141	189	161	93	254	2,402	
TOTAL (TAZ 15)					168	496	664	566	328	894	8,460	
16	TR 30597	SFDR	116	DU	22	65	87	74	43	117	1,110	
	TR 33420	SFDR	161	DU	31	90	121	103	60	163	1,541	
TOTAL (TAZ 16)					53	155	208	177	103	280	2,651	
17	TR 30379	SFDR	126	DU	24	71	95	81	47	128	1,208	
	TR 30923	SFDR	192	DU	38	108	144	123	71	194	1,837	
	Kasbergen Halliger Property	SFDR	147	DU	28	82	110	94	54	148	1,407	
		Commercial	30.0	TSF	47	30	77	136	147	283	3,105	
					- internal capture ³	-8	-8	-16	-30	-30	-60	-652
TOTAL (KASBERGEN)					67	104	171	200	171	371	3,860	
TOTAL (TAZ 17)					127	283	410	404	289	693	6,903	
SP 1-02 (TR 32955)	SFDR	613	DU	116	343	459	392	227	619	5,866		
					Assume 100% of Full Buildout (613 DUs)	116	343	459	392	227	619	5,866
TR 30828	SFDR	293	DU	56	164	220	188	108	296	2,804		
TR 31544	SFDR	134	DU	25	75	100	88	50	136	1,282		
Vanderham - TTM 32155	SFDR	253	DU	49	142	190	162	94	256	2,421		
Ashbrook PUD (TR 33408)	SFDR	210	DU	40	118	158	134	78	212	2,010		
7th Street and Cawston Residential	SFDR	128	DU	24	72	96	82	47	128	1,225		
The Promenade	Apartments	600	DU	60	246	306	240	132	372	4,032		
					-internal capture (Residential) ³	-11	-16	-27	-23	-15	-38	-380
	Office	39	TSF	78	11	89	21	102	123	646		
					-internal capture (Office) ³	-4	-4	-8	-5	-5	-10	-125
	Retail	40	TSF	55	35	90	164	178	342	3,744		
					-internal capture (Retail) ³	-18	-13	-31	-19	-26	-44	-493
					-Pass-By* Trips Retail (-15%) ⁴	-	-	0	-22	-23	-45	-488
Storage (Mini Warehouse)	2.71	AC	4	4	8	5	5	5	10	105		
TOTAL (The Promenade)					164	263	427	362	348	710	7,041	
TR 30943	SFDR	210	DU	40	118	158	134	78	212	2,010		
San Jacinto Ranch (Phase I,II,III,IV)	PHASE 1 - 2009											
	SFDR	27	DU	5	15	20	17	10	27	258		
	Townhouse / Condo	471	DU	33	174	207	165	80	245	2,760		
	Commercial	281,569	TSF	170	110	280	568	615	1,183	12,687		
	Office	46,163	TSF	89	12	101	22	108	131	736		
	SUBTOTAL (PHASE 1)					297	311	608	772	813	1,585	18,441
					-Pass-By* Trips (25% - Commercial Only) ⁴	-43	-28	-71	-142	-154	-296	-3,172
					-Internal Trips (Residential) ³	-8	-9	-17	-58	-48	-106	-1,076
					-Internal Trips (Commercial) ³	-11	-11	-22	-59	-63	-122	-1,205
					-Internal Trips (Office) ³	-3	-2	-5	-7	-13	-20	-143
	TOTAL REDUCTION (Phase 1 only)					-65	-50	-116	-266	-278	-544	-5,596

Table 5.9-4 (Continued)

TAZ	PROJECT NAME	LAND USE	QUANTITY	UNITS ¹	PEAK HOUR						DAILY
					AM			PM			
					IN	OUT	TOTAL	IN	OUT	TOTAL	
TOTAL (SJR PHASES 1)					232	261	493	506	535	1,041	10,845
PHASE 2 - 2012											
	SFDR		125	DU	24	70	94	80	46	126	1,196
	Townhouse / Condo		700	DU	49	259	308	245	119	364	4,102
	Commercial		388.774	TSF	214	136	350	735	797	1,532	16,414
	Office		66.607	TSF	122	16	138	27	129	156	998
	SUBTOTAL (PHASE 2)				409	481	890	1,087	1,091	2,178	22,710
	-Pass-By* Trips (25% - Commercial Only) ⁴				-96	-62	-158	-326	-353	-679	-7,275
	-Internal Trips (Residential) ³				-17	-19	-36	-162	-117	-279	-2,699
	-Internal Trips (Commercial) ³				-25	-24	-49	-143	-172	-315	-3,003
	-Internal Trips (Office) ³				-7	-6	-13	-15	-31	-46	-338
	TOTAL REDUCTION (Phases 1 and 2)				-145	-111	-256	-646	-673	-1,319	-13,315
	TOTAL (SJR PHASES 1 and 2)				561	681	1,242	1,213	1,231	2,444	25,836
PHASE 3 - 2015											
	SFDR		226	DU	43	126	171	146	84	230	2,182
	Condo		1008	DU	71	373	444	353	171	524	5,907
	Commercial		173.837	TSF	134	85	218	433	469	902	9,728
	Office		30.677	TSF	64	9	73	19	94	113	537
	SUBTOTAL (PHASE 3)				312	595	907	951	818	1,769	18,354
	-Pass-By* Trips (25% - Commercial Only) ⁴				-130	-83	-213	-434	-470	-904	-9,707
	-Internal Trips (Residential) ³				-23	-26	-49	-233	-156	-389	-3,906
	-Internal Trips (Commercial) ³				-33	-33	-66	-232	-247	-479	-4,303
	-Internal Trips (Office) ³				-10	-7	-17	-21	-83	-104	-443
	TOTAL REDUCTION (Phases 1, 2 and 3)				-196	-149	-345	-920	-956	-1,876	-18,359
	TOTAL (SJR RANCH PHASES 1, 2 and 3)				822	1,238	2,060	1,890	1,766	3,656	39,146
PHASE 4 - 2018											
	SFDR		612	DU	116	343	459	392	226	618	5,857
	Condo		317	DU	24	128	152	121	59	180	2,033
	Commercial		192.72	TSF	141	91	232	463	501	964	10,403
	Office		34.009	TSF	70	10	80	20	97	117	582
	Elementary School		600	STU	138	114	252	18	36	54	774
	SUBTOTAL (PHASE 4)				489	688	1,175	1,014	919	1,933	19,649
	-Pass-By* Trips (25% - Commercial Only) ⁴				-165	-106	-271	-550	-596	-1,146	-12,308
	-Internal Trips (Residential) ³				-53	-61	-114	-300	-201	-501	-4,952
	-Internal Trips (Commercial) ³				-42	-43	-85	-296	-313	-609	-5,451
	-Internal Trips (Office) ³				-13	-9	-22	-27	-107	-134	-557
	-Internal Trips (Elementary School) ³				-28	-23	-51	-3	-5	-8	-78
	TOTAL REDUCTION (Phases 1, 2, 3 and 4)				-301	-242	-543	-1,176	-1,222	-2,398	-23,346
	NET TOTAL (SJR PHASES 1, 2, 3 and 4)				1,208	1,831	3,037	2,648	2,419	5,087	53,808
18	TR 34665	SFDR	20	DU	4	11	15	13	7	20	191
TR 35447	SFDR	10	DU	2	6	8	6	4	10	96	
TR 34814	SFDR	63	DU	12	35	47	40	23	63	603	
	Commercial		230	TSF	156	101	257	520	564	1084	11,670
	- pass by (commercial) (25%) ⁴				-39	-25	-64	-130	-141	-271	-2,918
	TOTAL (CUP 03-03)				117	76	193	380	423	813	8,752
	Commercial		21.24	TSF	38	24	62	108	117	225	2,481
	- pass by (commercial) (25%) ⁴				-10	-6	-16	-27	-29	-56	-620
	TOTAL (CUP 10-04)				28	18	46	81	88	169	1,861
	TOTAL (TAZ 19)				145	94	239	471	511	982	10,613
	Commercial		118.2	TSF	105	67	172	336	364	700	7,571
	- pass by (commercial) (25%) ⁴				-26	-17	-43	-84	-91	-175	-1,893
	TOTAL (PM 33196)				79	50	129	252	273	525	5,678
	CUP 17-04	Fast Food Restaurant	3.66	TSF	96	93	189	64	59	123	1,766
	CUP 18-04	Mini-Storage	34.4	TSF	3	2	5	4	4	8	86
	SR 13-04	Commercial	4.2	TSF	14	9	23	37	40	77	865
	SR 14-04	Commercial	16.2	TSF	32	20	52	90	98	188	2,080
	SR 03-05	Commercial	3.4	TSF	13	8	21	32	35	67	754
	- internal capture (20%) ³				-32	-26	-58	-45	-47	-92	-1,110
	Subtotal				126	106	232	182	189	371	4,441
	- pass by (commercial) (25%) ⁴				-32	-27	-59	-46	-47	-93	-1,110
	TOTAL (TAZ 18)				94	79	173	136	142	278	3,331
	Commercial		5	TSF	18	10	28	42	45	87	969
	- pass by (commercial) (25%) ⁴				-4	-3	-7	-11	-11	-22	-242
	TOTAL (SR 06-08)				12	7	18	31	34	65	727
	Commercial		11.5	TSF	26	17	43	72	78	150	1,665
	- pass by (commercial) (25%) ⁴				-7	-4	-11	-18	-20	-38	-416
	TOTAL (SR 13-06)				19	13	32	54	58	112	1,249
	Commercial		8.2	TSF	21	14	35	58	62	120	1,336
	- pass by (commercial) (25%) ⁴				-5	-4	-9	-15	-16	-31	-334
	TOTAL (SR 10-06)				16	10	26	43	46	89	1,002
	Commercial		21.5	TSF	38	24	62	109	118	227	2,500
	- pass by (commercial) (25%) ⁴				-10	-6	-16	-27	-30	-57	-625
	TOTAL (SR 04-07)				28	18	46	82	88	170	1,876

Table 5.9-4 (Continued)

PROJECT		QUANTITY	UNITS ¹	PEAK HOUR						DAILY	
				AM			PM				
TAZ	NAME	LAND USE		IN	OUT	TOTAL	IN	OUT	TOTAL		
SR 16-06		Medical Office	12.2	TSF	24	6	30	12	33	45	441
SR 19-06		Medical Office	74	TSF	145	38	183	74	201	275	2,674
SR 20-06		General Office	63.8	TSF	115	16	131	26	124	150	944
23	SR 12-06	Commercial	105.3	TSF	99	63	162	311	337	648	7,022
		- pass by (commercial) (25%) ⁴			-25	-16	-41	-78	-84	-162	-1,756
		TOTAL (SR 12-06)			74	47	121	233	253	486	5,266
SR 19-06 Phase 3		Industrial Office	45	TSF	31	7	38	8	31	39	313
SR 03-07		Commercial	13.3	TSF	28	18	46	79	86	165	1,830
		- pass by (commercial) (25%) ⁴			-7	-5	-12	-20	-22	-42	-458
		TOTAL (SR 03-07)			21	13	34	59	64	123	1,372
CUP 08-07		Commercial	171.3	TSF	132	84	216	428	464	892	9,636
		- pass by (commercial) (25%) ⁴			-33	-21	-54	-107	-116	-223	-2,400
		TOTAL (SR 08-07)			99	63	162	321	348	669	7,227
CUP 1-08		Commercial	141	TSF	117	75	192	376	409	785	8,491
		- pass by (commercial) (25%) ⁴			-29	-19	-48	-94	-102	-196	-2,123
		TOTAL (SR 1-08)			88	56	144	282	307	589	6,368
CUP 2-08		Commercial	133.7	TSF	114	72	186	364	394	758	8,202
		- pass by (commercial) (25%) ⁴			-29	-18	-47	-91	-99	-190	-2,051
		TOTAL (SR 2-08)			85	54	139	273	295	568	6,151
24	TR 30815	SFDR	322	DU	61	180	241	206	119	325	3,082
	TR 32165	SFDR	85	DU	16	48	64	54	31	85	813
	TR 32764	SFDR	12	DU	2	7	9	8	4	12	115
	TOTAL (TAZ 24)			79	235	314	266	154	422	4,010	
25	TR 33177	SFDR	12	DU	2	7	9	8	4	12	115
	TR 33178	SFDR	11	DU	2	6	8	7	4	11	105
	TOTAL (TAZ 25)			4	13	17	15	8	23	220	
26	TR 33180	SFDR	8	DU	2	4	6	5	3	8	77
TOTAL (TAZ 26)				2	4	6	5	3	8	77	
27	TR29315	SFDR	327	DU	62	183	245	209	121	330	3,129
TOTAL (TAZ 27)				62	183	245	209	121	330	3,129	
28	TR 31583	SFDR	171	DU	32	96	128	109	63	172	1,636
TOTAL (TAZ 28)				32	96	128	109	63	172	1,636	
TOTAL CUMULATIVE TRIP GENERATION FOR 2023 (ALL)					5,870	9,254	15,124	15,693	13,614	29,307	303,052

¹ DU = Dwelling Units
 TSF = Thousand Square Feet
 STU = Students
 AC = Acres

² SFDR = Single-Family Detached Residential

³ Internal Capture is the reduction of the overall traffic due to the compatibility of land uses (proposed residential, elementary) within a cumulative project site.

⁴ "Pass-By" reduction rates have been used to account for traffic that will access the site as an intermediate stop on the way to a primary destination.

In addition to project-generated traffic and anticipated traffic generation from additional approved or pending development in the study area, area wide growth (ambient growth) has been considered in the traffic analysis. Based on information obtained by City staff, future traffic volumes have been calculated by using an anticipated 3% annual growth rate for the years 2008–2015 and a 1% growth rate for the years 2015–2023, which has been added to project-related and other development-related daily and peak hour traffic volumes (see Exhibit 4-K through 4-T in Appendix H for graphical depictions of each cumulative project's location and anticipated trip distribution).

Intersection Impacts for Existing Plus Ambient Plus Project Conditions

In order to identify direct project impacts, interim year analyses were performed for three Existing Plus Ambient Plus Project (EAP) scenarios. These scenarios don't include the cumulative projects that were identified above, but do include ambient traffic growth rates for each study year which corresponds to the project phasing. The following three sets of traffic volume conditions have been forecasted:

- 2015 EAP with Project Phase I
- 2017 EAP with Project Phases I + II
- 2023 EAP with Project Phases I + II + III.

The intersection levels of service for each of the scenarios are shown in *Table 5.9-5* through *Table 5.9-7*. Those intersections shown as "Does Not Exist" would not have been built at the timing for the scenario being analyzed. The intersection turning movement volumes for each scenario are shown on Exhibits 5-A through 5-F in *Appendix H*.

**Table 5.9-5
Intersection Analysis for 2015 Existing +
Ambient Growth + Project (EAP) Phase I Conditions**

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ⁴								DELAY ² (SECS.)		LEVEL OF SERVICE					
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND		WEST-BOUND		AM	PM	AM	PM		
		L	T	R	L	T	R	L	T	R	L					T	R
Rider Street (NS) at: • Ramona Expressway (EW)	TS	0.5	0.5	1	0	1!	0	1	2	1	2	2	1	21.8	20.9	C	C
Lakeview Ave. (NS) at: • Ramona Expressway (EW) -With Improvements	CSS IS	1	0	1	0	0	0	0	1	1	1	1	0	-- ⁴ 13.9	95.5 13.2	F B	F B
Bridge Street (NS) at: • Ramona Expressway (EW) -With Improvements	CSS IS	0	0	0	1	0	1	1	1	0	0	1	1	38.8 11.0	56.7 11.4	E B	F B
Warren Rd. (NS) at: • Ramona Expressway (EW) • Cottonwood Ave. (EW) • Esplanade Ave. (EW) -With Improvements	TS TS AWS IS	1	1	0	0	1!	0	1	2	1	1	2	0	19.9 27.8 -- ⁴ 39.2	24.9 28.0 -- ⁴ 33.6	B C F D	C C F C
Odell St. (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST								--	--	--	--				
Driveway 1 (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST								--	--	--	--				
Driveway 2 (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST								--	--	--	--				
Driveway 3 (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST								--	--	--	--				
Cawston Ave. (NS) at: • Ramona Blvd. (EW) • Street "C"/Driveway 4 (EW) • De Anza Dr. (EW) • Bridge St. (EW)	-- -- -- --	DOES NOT EXIST DOES NOT EXIST DOES NOT EXIST DOES NOT EXIST								-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --				
Driveway 10 (NS) at: • Bridge St. (EW)	--	DOES NOT EXIST								--	--	--	--				
Driveway 5 (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST								--	--	--	--				
Street "A"/Driveway 6 (NS) at: • De Anza Dr. (EW)	CSS	0	0	1	0	0	0	0	1	0	1	1	0	9.3	9.3	A	A
Street "A" (NS) at: • Driveway 8 (EW) • Driveway 9 (EW)	-- --	DOES NOT EXIST DOES NOT EXIST								-- --	-- --	-- --	-- --				
Street "A"/Driveway 11 (NS) at: • Bridge St. (EW)	CSS	0	0	0	0	1!	0	0	0	0	0	1	0	9.5	9.3	A	A
Driveway 12 (NS) at: • Bridge St. (EW)	--	DOES NOT EXIST								--	--	--	--				
Street "B"/"C"/Driveway 7 (NS) at: • De Anza Dr. (EW)	CSS	0	0	1	0	0	0	0	1	0	1	1	0	9.0	8.7	A	A
Street "B"/Driveway 13 (NS) at: • Bridge St. (EW)	CSS	0	0	0	0	1!	0	0	1	0	0	1	0	10.4	10.1	B	B
Sanderson Ave. / SR-79 SB Ramps (NS) at: • Gilman Springs Rd (EW) -With Improvements	CSS IS	0	0	0	0.5	0.5	1	0	1	1	1	1	0	54.9 15.8	-- ⁴ 23.8	F B	F C

Table 5.9-5 (Continued)

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE	
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM
		L	T	R	L	T	R	L	T	R	L	T	R				
Sanderson Ave. / SR-79 NB Ramps (NS) at: • Gilman Springs Rd (EW) -With Improvements	CSS TS	0.5	0.5	1	0	0	0	1	1	0	0	1	1	-- ⁴	96.5	F	F
Sanderson Ave. (NS) at: • Ramona Expressway (EW) -With Improvements • Ramona Blvd. (EW) (Realigned) -With Improvements • Driveway 14 (EW) • De Anza Dr. (EW) • Driveway 15 (EW) • Bridge St. (EW) • Driveway 16 (EW) • Cottonwood Ave. (EW) • Esplanade Ave. (EW) • Florida Ave. (EW) -With Improvements	TS TS CSS TS -- TS CSS TS -- TS TS TS TS TS TS TS	1	1	0	1	1	1>	1	1	1>>	1	1	1>	-- ⁴	-- ⁴	F	F
		0.5	0.5	1	0	0	0	1	1	0	0	1	1	17.5	15.9	B	B
		1	1	0	1	1	1>	1	1	1>>	1	1	1>	38.5	40.8	D	D
		0	1	0	1	1	0	0	0	0	1	0	1	73.4	-- ⁴	F	F
		0	1	0	1	1	0	0	0	0	1	0	1	18.0	36.3	B	D
		DOES NOT EXIST															
		1	1	0	0	1	0	1	1	0	1	1	0	39.5	51.7	D	D
		0	1	0	0	1	0	0	0	1	0	0	0	12.2	18.2	B	B
		1	1	0	0	1	0	0	1	0	0	0	0	15.6	21.2	B	C
		DOES NOT EXIST															
		1	1	0	1	1	0	1	1	0	1	1	0	12.7	13.9	B	B
		1	1	0	1	1	1	1	1	0	1	1	1	35.1	45.0	D	D
		1	2	1	1	2	1	1	2	1	1	2	1	38.0	-- ⁴	D	F
		2	2	1	1	2	1	1	2	1	1	2	1	32.9	51.3	C	D
State St. (NS) at: • Ramona Expressway (EW) • Cottonwood Ave. (EW) • Esplanade Ave. (EW)	TS TS TS	1	2	0	1	2	1	1	2	1	1	2	1	28.2	33.2	C	C
		1	2	0	1	2	0	0.5	0.5	1	0.5	0.5	1	33.2	32.6	C	C
		1	2	0	1	2	1	1	2	1	1	2	1	28.1	29.1	C	C

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.
L = Left; T = Through; R = Right; 1! = Left-Thru-Right Lane; 1> = Right Turn Overlap; 1>> = Free-Right Turn Lane; 1= IMPROVEMENT

² Delay and level of service calculated using the following analysis software: Traffix, Version 7.9 R4 (2008). Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for worst individual movement (or movements sharing a single lane) are shown.

³ TS = Traffic Signal
CSS = Cross Street Stop
AWS = All Way Stop

* Those intersections shown as "Does Not Exist" would not have been built at the timing for the scenario being analyzed.

As shown in Table 5.9-5, the following intersections are projected to operate at unacceptable LOS (i.e., LOS E or worse) during peak hours without improvements for the 2015 EAP, Phase I scenario:

- Bridge Street (NS) at:
 - Ramona Expressway (EW)
- Warren Road (NS) at:
 - Esplanade Avenue (EW)
- Sanderson Avenue (SR-79 NB Ramps) (NS) at:
 - Gilman Springs Road (EW)
- Sanderson Avenue (NS) at:
 - Ramona Boulevard (EW) Realigned
 - Florida Avenue (SR-74) (EW).

With improvements, all of the study area intersections are projected to operate at acceptable LOS during the peak hours.

**Table 5.9-6
Intersection Analysis for Existing +
Ambient Growth + Project Phases I and II (2017) Conditions**

INTERSECTION	TRAFFIC CONTROL	INTERSECTION APPROACH LANES ¹								DELAY ² (SECS.)		LEVEL OF SERVICE					
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND		WEST-BOUND		AM	PM	AM	PM		
		L	T	R	L	T	R	L	T	R	L	T	R				
Rider Street (NS) at: • Ramona Expressway (EW)	TS	0.5	0.5	1	0	1!	0	1	2	1	2	2	1	22.1	21.1	C	C
Lakeview Ave. (NS) at: • Ramona Expressway (EW) -With Improvements	CSS TS	1	0	1	0	0	0	0	1	1	1	1	0	-- ⁴	-- ⁴	F	F
Bridge Street (NS) at: • Ramona Expressway (EW) -With Improvements	CSS TS	1	0	1	0	0	0	0	1	1	1	1	0	16.3	15.0	B	B
Warren Rd. (NS) at: • Ramona Expressway (EW) • Cottonwood Ave. (EW) • Esplanade Ave. (EW) -With Improvements	TS TS AWS TS	0	0	0	1	0	1	1	1	0	0	1	1	44.9	72.7	E	F
		0	0	0	1	0	1	1	1	0	0	1	1	11.5	13.9	B	B
		1	1	0	0	1!	0	1	2	1	1	2	0	20.5	25.6	C	C
		1	1	1	1	1	1	1	1	1	1	1	1	27.9	28.1	C	C
		0	1!	0	0	1!	0	0	1!	0	0	1!	0	-- ⁴	-- ⁴	F	F
		1	1	0	1	1	0	1	1	0	1	1	0	42.1	35.6	D	D
Odell St. (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST								--	--	--	--				
Driveway 1 (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST								--	--	--	--				
Driveway 2 (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST								--	--	--	--				
Driveway 3 (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST								--	--	--	--				
Cawston Ave. (NS) at: • Ramona Blvd. (EW) • Street "C"/Driveway 4 (EW) • De Anza Dr. (EW) • Bridge St. (EW)	-- -- -- --	DOES NOT EXIST DOES NOT EXIST DOES NOT EXIST DOES NOT EXIST								-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --				
Driveway 10 (NS) at: • Bridge St. (EW)	--	DOES NOT EXIST								--	--	--	--				
Driveway 5 (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST								--	--	--	--				
Street "A"/Driveway 6 (NS) at: • De Anza Dr. (EW)	CSS	0	1!	0	0	1!	0	1	1	0	1	1	0	9.7	10.4	A	B
Street "A" (NS) at: • Driveway 8 (EW) • Driveway 9 (EW)	-- --	DOES NOT EXIST DOES NOT EXIST								-- --	-- --	-- --	-- --				
Street "A"/Driveway 11 (NS) at: • Bridge St. (EW)	CSS	0	0	0	0	1!	0	0	0	0	0	1	0	9.4	9.3	A	A
Driveway 12 (NS) at: • Bridge St. (EW)	--	DOES NOT EXIST								--	--	--	--				
Street "B"/"C"/Driveway 7 (NS) at: • De Anza Dr. (EW)	CSS	0	1!	0	0	1!	0	1	1	0	1	1	0	12.2	14.3	B	B
Street "B"/Driveway 13 (NS) at: • Bridge St. (EW)	CSS	0	0	0	0	1!	0	0	1	0	0	1	0	10.3	10.0	B	A
Sanderson Ave. / SR-79 SB Ramps (NS) at: • Gilman Springs Rd (EW) -With Improvements	CSS TS	0	0	0	0.5	0.5	1	0	1	1	1	1	0	66.4	-- ⁴	F	F
		0	0	0	0.5	0.5	1	0	1	1	1	1	0	16.4	24.7	B	C

Table 5.9-6 (Continued)

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE		
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM	
		L	T	R	L	T	R	L	T	R	L	T	R					
Sanderson Ave. / SR-79 NB Ramps (NS) at:																		
• Gilman Springs Rd (EW)	CSS	0.5	0.5	1	0	0	0	1	1	0	0	1	1	-- ⁴	-- ⁴	F	F	
-With Improvements	TS	0.5	0.5	1	0	0	0	1	1	0	0	1	1	18.8	19.4	B	B	
Sanderson Ave. (NS) at:																		
• Ramona Expressway (EW)	TS	1	1	0	1	1	1>	1	1	1>>	1	1	1>	-- ⁴	-- ⁴	F	F	
-With Improvements	TS	1	2	0	1	2	1>	2	1	1>>	1	1	1>	41.9	43.7	D	D	
• Ramona Blvd. (EW) (Realigned)	CSS	0	1	0	1	1	0	0	0	0	1	0	1	-- ⁴	-- ⁴	F	F	
-With Improvements	TS	0	1	0	1	1	0	0	0	0	1	0	1	21.3	51.9	C	D	
• Driveway 14 (EW)	CSS	0	1	0	0	1	0	0	0	1	0	0	0	12.6	23.6	B	C	
• De Anza Dr. (EW)	TS	1	1	0	1	2	0	1	1	0	1	1	0	37.0	25.5	D	C	
• Driveway 15 (EW)	CSS	0	1	0	0	1	0	0	0	1	0	0	0	12.9	19.4	B	C	
• Bridge St. (EW)	TS	1	1	0	0	1	0	0	1	0	0	0	0	14.8	20.5	B	C	
• Driveway 16 (EW)	--				DOES NOT EXIST								--	--	--	--		
• Cottonwood Ave. (EW)	TS	1	1	0	1	1	0	1	1	0	1	1	0	13.0	14.8	B	B	
• Esplanade Ave. (EW)	TS	1	1	0	1	1	1	1	1	0	1	1	1	37.8	52.0	D	D	
• Florida Ave. (EW)	TS	1	2	1	1	2	1	1	2	1	1	2	1	38.8	-- ⁴	D	F	
-With Improvements	TS	2	2	1	1	2	1	1	2	1	1	2	1	34.3	54.7	C	D	
State St. (NS) at:																		
• Ramona Expressway (EW)	TS	1	2	0	1	2	1	1	2	1	1	2	1	28.3	33.4	C	C	
• Cottonwood Ave. (EW)	TS	1	2	0	1	2	0	0.5	0.5	1	0.5	0.5	1	33.5	32.8	C	C	
• Esplanade Ave. (EW)	TS	1	2	0	1	2	1	1	2	1	1	2	1	28.5	30.0	C	C	

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1! = Left-Thru-Right Lane; 1> = Right Turn Overlap; 1>> = Free-Right Turn Lane; 1 = IMPROVEMENT

² Delay and level of service calculated using the following analysis software: Traffix, Version 7.9 R4 (2008). Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for worst individual movement (or movements sharing a single lane) are shown.

³ TS = Traffic Signal
 CSS = Cross Street Stop
 AWS = All Way Stop

As shown in Table 5.9-6, the same intersections as in the EAP 2015 scenario are projected to operate at unacceptable LOS (i.e., LOS E or worse) during peak hours without improvements for the 2017 EAP, Phases I and II scenario. However, with improvements, all of the study area intersections are projected to operate at acceptable LOS during the peak hours.

**Table 5.9-7
Intersection Analysis for Existing +
Ambient Growth + Project Phases I, II and II (2023) Conditions**

INTERSECTION APPROACH LANES ¹																	
INTERSECTION	TRAFFIC CONTROL ³	NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			DELAY ² (SECS.)		LEVEL OF SERVICE	
		L	T	R	L	T	R	L	T	R	L	T	R	AM	PM	AM	PM
Rider Street (NS) at: • Ramona Expressway (EW)	TS	0.5	0.5	1	0	1!	0	1	2	1	2	2	1	22.7	21.6	C	C
Lakeview Ave. (NS) at: • Ramona Expressway (EW) -With Improvements	CSS TS	1	0	1	0	0	0	0	1	1	1	1	0	-- ⁴ 19.7	-- ⁴ 17.4	F B	F B
Bridge Street (NS) at: • Ramona Expressway (EW) -With Improvements	CSS TS	0	0	0	1	0	1	1	1	0	0	1	1	67.4 10.6	-- ⁴ 27.9	F B	F C
Warren Rd. (NS) at: • Ramona Expressway (EW) • Coltonwood Ave. (EW) • Esplanade Ave. (EW) -With Improvements	TS TS AWS TS	1	1	0	0	1!	0	1	2	1	1	2	0	22.1 30.1 -- ⁴ 54.5	29.4 30.0 -- ⁴ 41.7	C C F D	C C F D
Odell St. (NS) at: • Ramona Blvd. (EW)	CSS	0	0	0	1	0	0	0	0	0	0	0	1	9.3	9.4	A	A
Driveway 1 (NS) at: • Ramona Blvd. (EW)	CSS	0	1!	0	0	0	0	0	1	0	1	1	0	8.7	8.9	A	A
Driveway 2 (NS) at: • Ramona Blvd. (EW)	CSS	0	1!	0	0	0	0	0	1	0	1	1	0	8.7	8.9	A	A
Driveway 3 (NS) at: • Ramona Blvd. (EW)	CSS	0	1!	0	0	0	0	0	1	0	1	1	0	12.4	9.4	B	A
Cawston Ave. (NS) at: • Ramona Blvd. (EW) • Street "C"/Driveway 4 (EW) • De Anza Dr. (EW) • Bridge St. (EW)	CSS CSS CSS --	1	1	0	1	1	0	1	2	0	1	1	0	22.6 10.8 12.0	11.1 10.4 9.6	C B B A	B B A A
Driveway 10 (NS) at: • Bridge St. (EW)	--	DOES NOT EXIST											--	--	--	--	
Driveway 5 (NS) at: • Ramona Blvd. (EW)	CSS	0	1!	0	0	0	0	0	1	0	1	1	0	9.8	10.8	A	B
Street "A"/Driveway 6 (NS) at: • De Anza Dr. (EW)	CSS	0	1!	0	0	1!	0	1	1	0	1	1	0	16.7	11.4	C	B
Street "A" (NS) at: • Driveway 8 (EW) • Driveway 9 (EW)	-- --	DOES NOT EXIST DOES NOT EXIST											-- --	-- --	-- --	-- --	
Street "A"/Driveway 11 (NS) at: • Bridge St. (EW)	CSS	0	0	0	0	1!	0	0	0	0	0	1	0	9.4	9.3	A	A
Driveway 12 (NS) at: • Bridge St. (EW)	--	DOES NOT EXIST											--	--	--	--	
Street "B"/"C"/Driveway 7 (NS) at: • De Anza Dr. (EW)	CSS	0	1!	0	0	1!	0	1	1	0	1	1	0	32.5	17.5	D	C
Street "B"/Driveway 13 (NS) at: • Bridge St. (EW)	CSS	0	0	0	0	1!	0	0	1	0	0	1	0	10.2	9.9	B	A
Sanderson Ave. / SR-79 SB Ramps (NS) at: • Gilman Springs Rd (EW) -With Improvements	CSS TS	0	0	0	0.5	0.5	1	0	1	1	1	1	0	-- ⁴ 17.7	-- ⁴ 27.9	F B	F C

Table 5.9-7 (Continued)

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE	
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM
		L	T	R	L	T	R	L	T	R	L	T	R				
Sanderson Ave. / SR-79 NB Ramps (NS) at: • Gilman Springs Rd (EW) -With Improvements	CSS <i>TS</i>	0.5	0.5	1	0	0	0	1	1	0	0	1	1	-- ⁴	-- ⁴	F	F
Sanderson Ave. (NS) at: • Ramona Expressway (EW) -With Improvements • Ramona Blvd. (EW) (Realigned) -With Improvements • Driveway 14 (EW) • De Anza Dr. (EW) • Driveway 15 (EW) • Bridge St. (EW) • Driveway 16 (EW) • Cottonwood Ave. (EW) -With Improvements • Esplanade Ave. (EW) -With Improvements • Florida Ave. (EW) -With Improvements	TS TS <i>CSS</i> <i>TS</i> <i>CSS</i> <i>TS</i> <i>CSS</i> <i>TS</i> -- TS TS TS TS <i>TS</i> TS TS TS	1	1	0	1	1	1>	1	1	1>>	1	1	1>	-- ⁴	-- ⁴	F	F
		1	2	0	1	2	1>	2	1	1>>	1	1	1>	50.0	49.2	D	D
		1	1	0	1	1	0	1	1	0	1	1	0	-- ⁴	-- ⁴	F	F
		1	2	0	1	2	0	1	1	0	1	1	0	28.3	30.4	C	C
		0	1	0	0	1	0	0	0	1	0	0	0	12.9	27.6	B	D
		1	1	0	1	2	0	1	1	0	1	1	0	43.4	35.6	D	D
		0	1	0	0	1	0	0	0	1	0	0	0	15.6	22.8	C	C
		1	2	0	0	1	0	0	1	0	0	0	0	15.8	29.2	C	C
		DOES NOT EXIST															
		1	1	0	1	1	0	1	1	0	1	1	0	-- ⁴	23.3	F	C
		1	2	0	1	2	0	1	1	0	1	1	0	54.6	38.7	D	D
		1	1	0	1	1	1	1	1	0	1	1	1	-- ⁴	-- ⁴	F	F
		1	2	0	1	2	0	1	1	0	1	1	1	31.3	39.9	C	D
		1	2	1	1	2	1	1	2	1	1	2	1	41.4	-- ⁴	F	F
		2	2	1	1	2	1	1	2	1	2	2	1	35.7	51.8	D	D
State St. (NS) at: • Ramona Expressway (EW) • Cottonwood Ave. (EW) • Esplanade Ave. (EW)	TS TS TS	1	2	0	1	2	1	1	2	1	1	2	1	29.1	34.6	C	C
		1	2	0	1	2	0	0.5	0.5	1	0.5	0.5	1	35.0	34.7	C	C
		1	2	0	1	2	1	1	2	1	1	2	1	29.4	31.2	C	C

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1! = Left-Thru-Right Lane; 1> = Right Turn Overlap; 1>> = Free-Right Turn Lane; 1 = IMPROVEMENT

² Delay and level of service calculated using the following analysis software: Traffix, Version 7.9 R4 (2008). Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for worst individual movement (or movements sharing a single lane) are shown.

³ TS = Traffic Signal
CSS = Cross Street Stop
AWS = All Way Stop
Italicized = Lane to be constructed only with the +313 DU Project Alternative

As shown in Table 5.9-7, the following intersections are projected to operate at unacceptable LOS (i.e., LOS E or worse) during peak hours without improvements for the 2023 EAP, Phases I, II and III scenario in addition to those that are deficient under 2017 EAP conditions:

- Sanderson Avenue (NS) at:
 - Cottonwood Avenue (EW)
 - Esplanade Avenue (EW).

Table 5.9-8 summarizes the improvements needed for each of the EAP scenarios in order to achieve acceptable LOS.

Table 5.9-8
Existing + Ambient + Project (EAP) Intersection Conditions with Improvements

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE	
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM
		L	T	R	L	T	R	L	T	R	L	T	R				
Rider Street (NS) at:																	
• Ramona Expressway (EW)																	
-Existing	TS	0.5	0.5	1	0	1!	0	1	2	1	2	2	1	20.8	20.6	C	C
-EAP Phase 1	TS	0.5	0.5	1	0	1!	0	1	2	1	2	2	1	21.8	20.9	C	C
-EAP Phase 2	TS	0.5	0.5	1	0	1!	0	1	2	1	2	2	1	22.1	21.1	C	C
-EAP Phase 3	TS	0.5	0.5	1	0	1!	0	1	2	1	2	2	1	22.7	21.6	C	C
Lakeview Ave. (NS) at:																	
• Ramona Expressway (EW)																	
-Existing	CSS	1	0	1	0	0	0	0	1	1	1	1	0	38.3	30.3	E	D
-EAP Phase 1	TS	1	0	1	0	0	0	0	1	1	1	1	0	13.9	13.2	B	B
-EAP Phase 2	TS	1	0	1	0	0	0	0	1	1	1	1	0	16.3	15.0	B	B
-EAP Phase 3	TS	1	0	1	0	0	0	0	1	1	1	1	0	19.7	17.4	B	B
Bridge Street (NS) at:																	
• Ramona Expressway (EW)																	
-Existing	CSS	0	0	0	1	0	1	1	1	0	0	1	1	22.2	26.4	C	D
-EAP Phase 1	TS	0	0	0	1	0	1	1	1	0	0	1	1	11.0	11.4	B	B
-EAP Phase 2	TS	0	0	0	1	0	1	1	1	0	0	1	1	11.5	13.9	B	B
-EAP Phase 3	TS	0	0	0	1	0	1	1	1	0	0	1	1	10.6	27.9	B	C
Warren Rd. (NS) at:																	
• Ramona Expressway (EW)																	
-Existing	TS	1	1	0	0	1!	0	1	2	1	1	2	0	18.2	21.4	B	C
-EAP Phase 1	TS	1	1	0	0	1!	0	1	2	1	1	2	0	19.9	24.9	B	C
-EAP Phase 2	TS	1	1	0	0	1!	0	1	2	1	1	2	0	20.5	25.6	C	C
-EAP Phase 3	TS	1	1	0	0	1!	0	1	2	1	1	2	0	22.1	29.4	C	C
• Cottonwood Ave. (EW)																	
-Existing	TS	1	1	1	1	1	1	1	1	1	1	1	1	25.1	25.9	C	C
-EAP Phase 1	TS	1	1	1	1	1	1	1	1	1	1	1	1	27.8	28.0	C	C
-EAP Phase 2	TS	1	1	1	1	1	1	1	1	1	1	1	1	27.9	28.1	C	C
-EAP Phase 3	TS	1	1	1	1	1	1	1	1	1	1	1	1	30.1	30.0	C	C
• Esplanade Ave. (EW)																	
-Existing	AWS	0	1!	0	0	1!	0	0	1!	0	0	1!	0	20.1	24.9	C	C
-EAP Phase 1	TS	1	1	0	1	1	0	1	1	0	1	1	0	39.2	33.6	D	C
-EAP Phase 2	TS	1	1	0	1	1	0	1	1	0	1	1	0	42.1	35.6	D	D
-EAP Phase 3	TS	1	1	0	1	1	0	1	1	0	1	1	0	54.5	41.7	D	D
Odell St. (NS) at:																	
• Ramona Blvd. (EW)																	
-Existing	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 1	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 2	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 3	CSS	0	0	0	1	0	0	0	0	0	0	0	1	9.3	9.4	A	A
Driveway 1 (NS) at:																	
• Ramona Blvd. (EW)																	
-Existing	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 1	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 2	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 3	CSS	0	1!	0	0	0	0	0	1	0	1	1	0	8.7	8.9	A	A

Table 5.9-8 (Continued)

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹								DELAY ² (SECS.)		LEVEL OF SERVICE					
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND		WEST-BOUND		AM	PM	AM	PM		
		L	T	R	L	T	R	L	T	R	L	T	R				
Driveway 2 (NS) at: • Ramona Blvd. (EW)																	
-Existing	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 1	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 2	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 3	CSS	0	<u>1</u>	0	0	0	0	0	<u>1</u>	0	<u>1</u>	<u>1</u>	0	8.7	8.9	A	A
Driveway 3 (NS) at: • Ramona Blvd. (EW)																	
-Existing	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 1	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 2	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 3	CSS	0	<u>1</u>	0	0	0	0	0	<u>1</u>	0	<u>1</u>	<u>1</u>	0	12.4	9.4	B	A
Cawston Ave. (NS) at: • Ramona Blvd. (EW)																	
-Existing	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 1	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 2	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 3	CSS	<u>1</u>	<u>1</u>	0	<u>1</u>	<u>1</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>1</u>	0	22.6	11.1	C	B
• Street "C"/Driveway 4 (EW)																	
-Existing	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 1	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 2	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 3	CSS	<u>1</u>	<u>1</u>	0	<u>1</u>	<u>1</u>	0	0	<u>1</u>	0	0	<u>1</u>	0	10.8	10.4	B	B
• De Anza Dr. (EW)																	
-Existing	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 1	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 2	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 3	CSS	0	0	0	<u>1</u>	0	0	0	0	0	0	0	<u>1</u>	12.0	9.6	B	A
• Bridge St. (EW)																	
-Existing	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 1	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 2	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 3	--				DOES NOT EXIST								--	--	--	--	
Driveway 10 (NS) at: • Bridge St. (EW)																	
-Existing	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 1	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 2	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 3	--				DOES NOT EXIST								--	--	--	--	
Driveway 5 (NS) at: • Ramona Blvd. (EW)																	
-Existing	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 1	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 2	--				DOES NOT EXIST								--	--	--	--	
-EAP Phase 3	CSS	0	<u>1</u>	0	0	0	0	0	<u>1</u>	0	<u>1</u>	<u>1</u>	0	9.8	10.8	A	B

Table 5.9-8 (Continued)

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹								DELAY ² (SECS.)		LEVEL OF SERVICE					
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND		WEST-BOUND		AM	PM	AM	PM		
		L	T	R	L	T	R	L	T	R	L	T	R				
Street "A"/Driveway 6 (NS) at: • De Anza Dr. (EW)																	
-Existing	--	DOES NOT EXIST								--	--	--	--				
-EAP Phase 1	CSS	0	0	1	0	0	0	0	1	0	1	1	0	9.3	9.3	A	A
-EAP Phase 2	CSS	0	1	0	0	1	0	1	1	0	1	1	0	9.7	10.4	A	B
-EAP Phase 3	CSS	0	1	0	0	1	0	1	1	0	1	1	0	16.7	11.4	C	B
Street "A" (NS) at: • Driveway 8 (EW)																	
-Existing	--	DOES NOT EXIST								--	--	--	--				
-EAP Phase 1	--	DOES NOT EXIST								--	--	--	--				
-EAP Phase 2	--	DOES NOT EXIST								--	--	--	--				
-EAP Phase 3	--	DOES NOT EXIST								--	--	--	--				
• Driveway 9 (EW)																	
-Existing	--	DOES NOT EXIST								--	--	--	--				
-EAP Phase 1	--	DOES NOT EXIST								--	--	--	--				
-EAP Phase 2	--	DOES NOT EXIST								--	--	--	--				
-EAP Phase 3	--	DOES NOT EXIST								--	--	--	--				
Street "A"/Driveway 11 (NS) at: • Bridge St. (EW)																	
-Existing	--	DOES NOT EXIST								--	--	--	--				
-EAP Phase 1	CSS	0	0	0	0	1	0	0	0	0	0	1	0	9.5	9.3	A	A
-EAP Phase 2	CSS	0	0	0	0	1	0	0	0	0	0	1	0	9.4	9.3	A	A
-EAP Phase 3	CSS	0	0	0	0	1	0	0	0	0	0	1	0	9.4	9.3	A	A
Driveway 12 (NS) at: • Bridge St. (EW)																	
-Existing	--	DOES NOT EXIST								--	--	--	--				
-EAP Phase 1	--	DOES NOT EXIST								--	--	--	--				
-EAP Phase 2	--	DOES NOT EXIST								--	--	--	--				
-EAP Phase 3	--	DOES NOT EXIST								--	--	--	--				
Street "B"/"C"/Driveway 7 (NS) at: • De Anza Dr. (EW)																	
-Existing	--	DOES NOT EXIST								--	--	--	--				
-EAP Phase 1	CSS	0	0	1	0	0	0	0	1	0	1	1	0	9.0	8.7	A	A
-EAP Phase 2	CSS	0	1	0	0	1	0	1	1	0	1	1	0	12.2	14.3	B	B
-EAP Phase 3	CSS	0	1	0	0	1	0	1	1	0	1	1	0	32.5	17.5	D	C
Street "B"/Driveway 13 (NS) at: • Bridge St. (EW)																	
-Existing	--	DOES NOT EXIST								--	--	--	--				
-EAP Phase 1	CSS	0	0	0	0	1	0	0	1	0	0	1	0	10.4	10.1	B	B
-EAP Phase 2	CSS	0	0	0	0	1	0	0	1	0	0	1	0	10.3	10.0	B	A
-EAP Phase 3	CSS	0	0	0	0	1	0	0	1	0	0	1	0	10.2	9.9	B	A
Sanderson Ave. / SR-79 SB Ramps (NS) at: • Gilman Springs Rd (EW)																	
-Existing	CSS	0	0	0	0.5	0.5	1	0	1	1	1	1	0	24.0	67.9	C	F
-EAP Phase 1	TS	0	0	0	0.5	0.5	1	0	1	1	1	1	0	15.8	23.8	B	C
-EAP Phase 2	TS	0	0	0	0.5	0.5	1	0	1	1	1	1	0	16.4	24.7	B	C
-EAP Phase 3	TS	0	0	0	0.5	0.5	1	0	1	1	1	1	0	17.7	27.9	B	C

Table 5.9-8 (Continued)

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE	
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM
		L	T	R	L	T	R	L	T	R	L	T	R				
Sanderson Ave. / SR-79 NB Ramps (NS) at:																	
• Gilman Springs Rd (EW)																	
-Existing	CSS	0.5	0.5	1	0	0	0	1	1	0	0	1	1	32.4	32.6	D	D
-EAP Phase 1	TS	0.5	0.5	1	0	0	0	1	1	0	0	1	1	17.5	15.9	B	B
-EAP Phase 2	TS	0.5	0.5	1	0	0	0	1	1	0	0	1	1	18.8	19.4	B	B
-EAP Phase 3	TS	0.5	0.5	1	0	0	0	1	1	0	0	1	1	20.5	22.1	C	C
Sanderson Ave. (NS) at:																	
• Ramona Expressway (EW)																	
-Existing	TS	1	1	0	1	1	1>	1	1	1>>	1	1	1>	56.0	45.3	E	D
-EAP Phase 1	TS	1	2	0	1	2	1>	2	1	1>>	1	1	1>	38.5	40.8	D	D
-EAP Phase 2	TS	1	2	0	1	2	1>	2	1	1>>	1	1	1>	41.9	43.7	D	D
-EAP Phase 3	TS	1	2	0	1	2	1>	2	1	1>>	1	1	1>	50.0	49.2	D	D
• Ramona Blvd. (EW) (Realigned for Future Conditions)																	
-Existing	CSS	1	1	0	1	1	1	0	1!	0	0.5	0.5	1	25.1	35.8	D	E
-EAP Phase 1	TS	0	1	0	1	1	0	0	0	0	1	0	1	18.0	36.3	B	D
-EAP Phase 2	TS	0	1	0	1	1	0	0	0	0	1	0	1	21.3	51.9	C	D
-EAP Phase 3	TS	1	2	0	1	2	0	1	1	0	1	1	0	28.3	30.4	C	C
• Driveway 14 (EW)																	
-Existing	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 1	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 2	CSS	0	1	0	0	1	0	0	0	1	0	0	0	12.0	23.0	B	C
-EAP Phase 3	CSS	0	1	0	0	1	0	0	0	1	0	0	0	12.9	27.6	B	D
• De Anza Dr. (EW)																	
-Existing	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 1	TS	1	1	0	0	1	0	1	1	0	1	1	0	39.5	51.7	D	D
-EAP Phase 2	TS	1	1	0	1	2	0	1	1	0	1	1	0	37.0	25.5	D	C
-EAP Phase 3	TS	1	1	0	1	2	0	1	1	0	1	1	0	43.4	35.6	D	D
• Driveway 15 (EW)																	
-Existing	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 1	CSS	0	1	0	0	1	0	0	0	1	0	0	0	12.2	18.2	B	B
-EAP Phase 2	CSS	0	1	0	0	1	0	0	0	1	0	0	0	12.9	19.4	B	C
-EAP Phase 3	CSS	0	1	0	0	1	0	0	0	1	0	0	0	15.6	22.8	C	C
• Bridge St. (EW)																	
-Existing	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 1	TS	1	1	0	0	1	0	0	1!	0	0	0	0	15.6	21.2	B	C
-EAP Phase 2	TS	1	1	0	0	1	0	0	1!	0	0	0	0	14.8	20.5	B	C
-EAP Phase 3	TS	1	2	0	0	1	0	0	1!	0	0	0	0	15.8	29.2	C	C
• Driveway 16 (EW)																	
-Existing	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 1	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 2	--	DOES NOT EXIST												--	--	--	--
-EAP Phase 3	--	DOES NOT EXIST												--	--	--	--
• Cottonwood Ave. (EW)																	
-Existing	TS	1	1	0	1	1	0	1	1	0	1	1	0	10.6	10.6	B	B
-EAP Phase 1	TS	1	1	0	1	1	0	1	1	0	1	1	0	12.7	13.9	B	B
-EAP Phase 2	TS	1	1	0	1	1	0	1	1	0	1	1	0	13.0	14.8	B	B
-EAP Phase 3	TS	1	2	0	1	2	0	1	1	0	1	1	0	54.6	38.7	D	D

Table 5.9-8 (Continued)

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE		
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM	
		L	T	R	L	T	R	L	T	R	L	T	R					
• Esplanade Ave. (EW)																		
-Existing	TS	1	1	0	1	1	1	1	1	0	1	1	1	23.7	30.5	C	C	
-EAP Phase 1	TS	1	1	0	1	1	1	1	1	0	1	1	1	35.1	45.0	D	D	
-EAP Phase 2	TS	1	1	0	1	1	1	1	1	0	1	1	1	37.8	52.0	D	D	
-EAP Phase 3	TS	1	<u>2</u>	0	1	<u>2</u>	0	1	1	0	1	1	1	31.3	39.9	C	D	
• Florida Ave. (EW)																		
-Existing	TS	1	2	1	1	2	1	1	2	1	1	2	1	32.2	43.8	C	D	
-EAP Phase 1	TS	<u>2</u>	2	1	1	2	1	1	2	1	1	2	1	32.9	51.3	C	D	
-EAP Phase 2	TS	<u>2</u>	2	1	1	2	1	1	2	1	1	2	1	34.3	54.7	C	D	
-EAP Phase 3	TS	<u>2</u>	2	1	1	2	1	1	2	1	<u>2</u>	2	1	35.7	51.8	D	D	
State St. (NS) at:																		
• Ramona Expressway (EW)																		
-Existing	TS	1	2	0	1	2	1	1	2	1	1	2	1	30.5	35.5	C	D	
-EAP Phase 1	TS	1	2	0	1	2	1	1	2	1	1	2	1	28.2	33.2	C	C	
-EAP Phase 2	TS	1	2	0	1	2	1	1	2	1	1	2	1	28.3	33.4	C	C	
-EAP Phase 3	TS	1	2	0	1	2	1	1	2	1	1	2	1	29.1	34.6	C	C	
• Cottonwood Ave. (EW)																		
-Existing	TS	1	2	0	1	2	0	0.5	0.5	1	0.5	0.5	1	36.5	34.6	D	C	
-EAP Phase 1	TS	1	2	0	1	2	0	0.5	0.5	1	0.5	0.5	1	33.2	32.6	C	C	
-EAP Phase 2	TS	1	2	0	1	2	0	0.5	0.5	1	0.5	0.5	1	33.5	32.8	C	C	
-EAP Phase 3	TS	1	2	0	1	2	0	0.5	0.5	1	0.5	0.5	1	35.0	34.7	C	C	
• Esplanade Ave. (EW)																		
-Existing	TS	1	2	0	1	2	1	1	2	1	1	2	1	30.2	31.6	C	C	
-EAP Phase 1	TS	1	2	0	1	2	1	1	2	1	1	2	1	28.1	29.1	C	C	
-EAP Phase 2	TS	1	2	0	1	2	1	1	2	1	1	2	1	28.5	30.0	C	C	
-EAP Phase 3	TS	1	2	0	1	2	1	1	2	1	1	2	1	29.4	31.2	C	C	

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1! = Left-Thru-Right Lane; 1> = Right Turn Overlap; 1>> = Free-Right Turn Lane; 1 = IMPROVEMENT

² Delay and level of service calculated using the following analysis software: Traffix, Version 7.9 R4 (2008). Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for worst individual movement (or movements sharing a single lane) are shown.

³ TS = Traffic Signal
 CSS = Cross Street Stop
 AWS = All Way Stop
Italicized = Lane to be constructed only with the +313 DU Project Alternative

Intersection Analysis for Cumulative Conditions with Project

In order to identify the improvements required to achieve acceptable levels of service for each Interim Year with cumulative development (as described in *Table 5.9-4*) with project conditions, the following EACP (existing + ambient + cumulative + project) traffic forecast scenarios have been provided:

- 2015 EACP with Project Phase I
- 2023EACP with Project Phases I + II
- 2023 EACP with Project Phases I + II + III.

For EACP 2015 traffic conditions, all of the study area intersections are projected to operate at unacceptable LOS E or F during the peak hours without improvements. As shown in *Table 5.9-9*, some of the improvements required to achieve acceptable LOS exceed the General Plan typical roadway cross sections and are therefore not feasible due to the uncertainty of obtaining adequate right-of-way for such measures. These instances include the triple left turn lanes required at Warren Road at Ramona Expressway, the extensive improvements required along Sanderson Avenue (which don't provide acceptable LOS for the PM peak hour), and the three through lanes along Esplanade Avenue. The improvements which go beyond General Plan standards are due to the lack of alternative routes which would be provided upon completion of the Mid-County Parkway and SR-79 improvements which are not included in the EACP 2015 analysis. In order to minimize required improvements, a further analysis was done which includes completion of the Mid-County Parkway and SR-79 improvements for those intersections affected by these projects. The analysis also included required improvements for General Plan build-out conditions. As shown on *Table 5.9-10*, the improvements in excess of the ultimate planned roadway cross-sections at the study intersections would not be required to achieve acceptable LOS for the EACP 2015 scenario (with completion of the Mid-County Parkway and SR-79 improvements). Further, insuring that adequate right-of-way exists would entail an amendment to the Circulation Element. Because such an amendment can't be accommodated for only a portion of the City, it would result in a Circulation Element amendment that is City-wide which is not appropriate. However, it should be noted that completion of these regional improvements can't be guaranteed by the City. As such, the project would contribute to a significant unmitigable impact for EACP 2015 traffic conditions if these improvements are not in place.

Table 5.9-9
2015 Existing + Ambient + Project + Project (EACP) Phase I Intersection Conditions
with and without Improvements

INTERSECTION	TRAFFIC CONTROL	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE	
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM
		L	T	R	L	T	R	L	T	R	L	T	R				
Rider Street (NS) at: • Ramona Expressway (EW) -With Improvements ⁴	TS TS	0.5	0.5	1	0	1!	0	1	2	1	2	2	1	-- ⁴	-- ⁴	F	F
Lakeview Ave. (NS) at: • Ramona Expressway (EW) -With Improvements ⁴	CSS TS	1	0	1	0	0	0	0	1	1	1	1	0	-- ⁴	-- ⁴	F	F
Bridge Street (NS) at: • Ramona Expressway (EW) -With Improvements ⁴	CSS TS	0	0	0	1	0	1	1	1	0	0	1	1	-- ⁴	-- ⁴	F	F
Warren Rd. (NS) at: • Ramona Expressway (EW) -With Improvements ⁴	TS TS	1	1	0	0	1!	0	1	2	1	1	2	0	-- ⁴	-- ⁴	F	F
• Cottonwood Ave. (EW) -With Improvements	TS	2	1	1>>	1	1	0	1	4	1>>	3	3	0	31.9	53.5	C	D
• Esplanade Ave. (EW) -With Improvements	TS	1	2	1	2	2	1	1	1	1	1	1	1	63.7	-- ⁴	E	F
• Esplanade Ave. (EW) -With Improvements	AWS TS	0	1!	0	0	1!	0	0	1!	0	0	1!	0	38.1	52.1	D	D
Odell St. (NS) at: • Ramona Blvd. (EW)	--	1	3	0	1	2	0	1	1	0	2	1	0	-- ⁴	-- ⁴	F	F
Driveway 1 (NS) at: • Ramona Blvd. (EW)	--													--	--	--	--
Driveway 2 (NS) at: • Ramona Blvd. (EW)	--													--	--	--	--
Driveway 3 (NS) at: • Ramona Blvd. (EW)	--													--	--	--	--
Cawston Ave. (NS) at: • Ramona Blvd. (EW) • Street "C"/Driveway 4 (EW) • De Anza Dr. (EW) • Bridge St. (EW)	-- -- -- --													-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --
Driveway 10 (NS) at: • Bridge St. (EW)	--													--	--	--	--
Driveway 5 (NS) at: • Ramona Blvd. (EW)	--													--	--	--	--
Street "A"/Driveway 6 (NS) at: • De Anza Dr. (EW)	CSS	0	1!	0	0	0	0	0	1	0	1	1	0	9.3	9.3	A	A
Street "A" (NS) at: • Driveway 8 (EW) • Driveway 9 (EW)	-- --													-- --	-- --	-- --	-- --
Street "A"/Driveway 11 (NS) at: • Bridge St. (EW)	CSS	0	0	0	0	1!	0	0	0	0	0	1	0	9.5	9.3	A	A
Driveway 12 (NS) at: • Bridge St. (EW)	--													--	--	--	--
Street "B"/"C"/Driveway 7 (NS) at: • De Anza Dr. (EW)	CSS	0	1!	0	0	1!	0	1	1	0	1	1	0	9.0	8.7	A	A
Street "B"/Driveway 13 (NS) at: • Bridge St. (EW)	CSS	0	0	0	0	1!	0	0	1	0	0	1	0	10.4	10.1	B	B
Sanderson Ave. / SR-79 SB Ramps (NS) at: • Gilman Springs Rd (EW) -With Improvements	CSS TS	0	0	0	0.5	0.5	1	0	1	1	1	1	0	-- ⁴	-- ⁴	F	F
		0	0	0	0.5	0.5	1	0	1	1>>	1	2	0	14.7	29.8	B	C

Table 5.9-9 (Continued)

INTERSECTION	TRAFFIC CONTROL ²	INTERSECTION APPROACH LANES ¹								DELAY ² (SECS.)		LEVEL OF SERVICE					
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND		WEST-BOUND		AM	PM	AM	PM		
		L	T	R	L	T	R	L	T	R	L	T	R				
Sanderson Ave. / SR-79 NB Ramps (NS) at: • Gilman Springs Rd (EW) -With Improvements	CSS TS	0.5	0.5	1	0	0	0	1	1	0	0	1	1	-- ⁴	-- ⁴	F	F
Sanderson Ave. (NS) at: • Ramona Expressway (EW) -With Improvements ⁴ • Ramona Blvd. (EW) (Realigned) -With Improvements ⁴ • Driveway 14 (EW) • De Anza Dr. (EW) • Driveway 15 (EW) • Bridge St. (EW) • Driveway 16 (EW) • Cottonwood Ave. (EW) -With Improvements ⁴ • Esplanade Ave. (EW) -With Improvements ⁴ • Florida Ave. (EW) -With Improvements ⁴	TS TS CSS TS -- TS CSS TS -- TS TS TS TS TS TS TS TS	1	1	0	1	1	1>	1	1	1>>	1	1	1>	-- ⁴	-- ⁴	F	F
		3	5	1>>	3	5	1>>	3	5	1>>	3	5	1>>	29.7	-- ⁴	C	F
		1	1	0	1	1	0	1	1	0	1	1	0	-- ⁴	-- ⁴	F	F
		1	4	0	2	4	0	1	1	1	1	1	1	21.0	31.3	C	C
		DOES NOT EXIST								--	--	--	--	--	--	--	--
		1	3	0	1	3	0	1	1	1	1	1	1	21.2	48.7	C	D
		0	1	0	0	3	0	0	0	1	0	0	0	12.5	23.4	B	C
		1	2	0	0	3	0	0	1	0	0	0	0	46.5	30.5	D	C
		DOES NOT EXIST								--	--	--	--	--	--	--	--
		1	1	0	1	1	0	1	1	0	1	1	0	-- ⁴	-- ⁴	F	F
		2	4	1>	2	4	0	1	3	1	2	2	1>	29.4	52.7	C	D
		1	1	0	1	1	1	1	1	0	1	1	1	-- ⁴	-- ⁴	F	F
		1	4	0	2	3	1	2	3	1	2	3	1>>	28.0	46.5	C	D
		1	2	1	1	2	1	1	2	1	1	2	1	-- ⁴	-- ⁴	F	F
		2	4	0	2	3	1	2	4	0	2	3	1>>	34.0	53.7	C	D
State St. (NS) at: • Ramona Expressway (EW) -With Improvements • Cottonwood Ave. (EW) -With Improvements • Esplanade Ave. (EW) -With Improvements	TS TS TS TS TS TS	1	2	0	1	2	1	1	2	1	1	2	1	59.3	-- ⁴	E	F
		2	2	0	1	2	1	1	3	1>>	2	3	1	31.3	50.3	C	D
		1	2	0	1	2	0	0.5	0.5	1	0.5	0.5	1	96.1	-- ⁴	F	F
		2	2	0	1	2	1>	2	1	0	1	1	0	33.4	51.1	C	D
		1	2	0	1	2	1	1	2	1	1	2	1	43.3	-- ⁴	D	F
		2	2	1	2	2	1	1	2	1	1	2	1	29.4	49.9	C	D

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1! = Left-Thru-Right Lane; 1> = Right Turn Overlap; 1>> = Free-Right Turn Lane; **1** = IMPROVEMENT

² Delay and level of service calculated using the following analysis software: Traffix, Version 7.9 R4 (2008). Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for worst individual movement (or movements sharing a single lane) are shown.

³ TS = Traffic Signal
CSS = Cross Street Stop
AWS = All Way Stop

⁴ Geometrics shown illustrate the need for the MCP and SR-79 improvements and are not intended for construction.

**Table 5.9-10
EACP 2015 with Mid-County Parkway and SR-79 Improvements**

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE		
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM	
		L	T	R	L	T	R	L	T	R	L	T	R					
Warren Rd. (NS) at:																		
* MCP Freeway WB Ramps (EW)	TS	0	2	1>>	0	2	1>>	0	0	0	1	0	1>>	11.7	10.0	B	B	
* MCP Freeway EB Ramps (EW)	TS	0	2	1	1	2	0	2	0	1>>	0	0	0	12.5	18.3	B	B	
Sanderson Ave. (NS) at:																		
* Ramona Expressway (EW)	TS	2	3	1>	2	3	1	1	3	1>	2	3	1	20.8	28.6	C	C	
* Street C (EW)	TS	2	3	1>	2	3	1>	2	4	1>>	2	4	1>>	20.8	26.0	C	C	
* Ramona Blvd. (EW) (Realigned)	TS	2	3	0	2	3	1	1	1	1	1	1	1>	14.3	15.8	B	B	
* Cottonwood Ave. (EW)	TS	2	4	1	2	4	1	2	2	1	2	2	1>	29.1	46.4	C	D	
* Esplanade Ave. (EW)	TS	1	4	1	2	3	1	2	3	1	2	2	1>>	26.5	32.4	C	C	
* Florida Ave. (EW)	TS	2	3	1	2	3	1>	2	3	1>	2	3	1>>	26.6	36.8	C	D	
Sanderson Ave. / SR-79 SB Ramps (NS) at:																		
* Street C (EW)	TS	0	0	0	1.5	0.5	1>>	0	3	1	2	3	0	11.3	17.3	B	B	
Sanderson Ave. / SR-79 NB Ramps (NS) at:																		
* Street C (EW)	TS	0.5	0.5	1	0	0	0	0	3	1>>	0	3	1	4.6	11.4	A	B	

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1! = Left-Thru-Right Lane; 1> = Right Turn Overlap; 1>> = Free-Right Turn Lane; 1 = IMPROVEMENT

² Delay and level of service calculated using the following analysis software: Traffix, Version 7.9 R4 (2008). Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for worst individual movement (or movements sharing a single lane) are shown.

³ TS = Traffic Signal

As shown on *Table 5.9-11*, for 2017 EACP conditions all of the study intersections are projected to operate at unacceptable LOS E or F during the peak hours without improvements. As in the 2015 EACP scenario, some required improvements would exceed the General Plan typical roadway cross sections and are therefore not feasible due to the uncertainty of obtaining adequate right-of-way for such measures. As shown on *Table 5.9-12*, the improvements in excess of the ultimate planned roadway cross-sections at the study intersections would not be required to achieve acceptable LOS for the EACP 2015 scenario with completion of the Mid-County Parkway and SR-79 improvements. However, it should be noted that completion of these regional improvements can't be guaranteed by the City. As such, the project would contribute to a significant unmitigable impact for EACP 2017 traffic conditions if these improvements are not in place.

Table 5.9-11
2017 Existing + Ambient + Project + Project (EACP) Phases I + II
Intersection Conditions with and without Improvements

INTERSECTION	TRAFFIC CONTROL ¹	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE				
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM			
		L	T	R	L	T	R	L	T	R	L	T	R							
Rider Street (NS) at: • Ramona Expressway (EW) -With Improvements ⁴	TS TS	0.5	0.5	1	0	1!	0	1	2	1	2	2	1	2	2	1	-- ⁴	-- ⁴	F	F
Lakeview Ave. (NS) at: • Ramona Expressway (EW) -With Improvements ⁴	CSS TS	1	0	1	0	0	0	0	1	1	1	1	0	1	1	0	-- ⁴	-- ⁴	F	F
Bridge Street (NS) at: • Ramona Expressway (EW) -With Improvements ⁴ -With 4 EB Through Lanes ⁴	CSS TS TS	2	0	1	0	0	0	0	4	1	1	3	0	1	3	0	29.9	34.5	C	C
Warren Rd. (NS) at: • Ramona Expressway (EW) -With Improvements ⁴ • Cottonwood Ave. (EW) -With Improvements • Esplanade Ave. (EW) -With Improvements	TS TS TS AWS TS	1	1	0	0	1!	0	1	2	1	1	2	0	1	2	0	-- ⁴	-- ⁴	F	F
Odell St. (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST												--	--	--	--			
Driveway 1 (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST												--	--	--	--			
Driveway 2 (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST												--	--	--	--			
Driveway 3 (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST												--	--	--	--			
Cawston Ave. (NS) at: • Ramona Blvd. (EW) • Street "C"/Driveway 4 (EW) • De Anza Dr. (EW) • Bridge St. (EW)	-- -- -- --	DOES NOT EXIST DOES NOT EXIST DOES NOT EXIST DOES NOT EXIST												--	--	--	--			
Driveway 10 (NS) at: • Bridge St. (EW)	--	DOES NOT EXIST												--	--	--	--			
Driveway 5 (NS) at: • Ramona Blvd. (EW)	--	DOES NOT EXIST												--	--	--	--			
Street "A"/Driveway 6 (NS) at: • De Anza Dr. (EW)	CSS	0	1!	0	0	1!	0	1	1	0	1	1	0	1	1	0	9.7	10.4	A	B
Street "A" (NS) at: • Driveway 8 (EW) • Driveway 9 (EW)	-- --	DOES NOT EXIST DOES NOT EXIST												--	--	--	--			
Street "A"/Driveway 11 (NS) at: • Bridge St. (EW)	CSS	0	0	0	0	1!	0	0	0	0	0	1	0	0	1	0	9.4	9.3	A	A
Driveway 12 (NS) at: • Bridge St. (EW)	--	DOES NOT EXIST												--	--	--	--			
Street "B"/"C"/Driveway 7 (NS) at: • De Anza Dr. (EW)	CSS	0	1!	0	0	1!	0	1	1	0	1	1	0	1	1	0	12.2	14.3	B	B
Street "B"/Driveway 13 (NS) at: • Bridge St. (EW)	CSS	0	0	0	0	1!	0	0	1	0	0	1	0	0	1	0	10.3	10.0	B	A
Sanderson Ave. / SR-79 SB Ramps (NS) at: • Gilman Springs Rd (EW) -With Improvements	CSS TS	0	0	0	0.5	0.5	1	0	1	1	1	1	0	1	1	0	-- ⁴	-- ⁴	F	F
		0	0	0	0.5	0.5	1	0	1	1>>	1	2	0	20.5	30.1	C	C			

Table 5.9-11 (Continued)

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE		
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM	
		L	T	R	L	T	R	L	T	R	L	T	R					
Sanderson Ave. / SR-79 NB Ramps (NS) at:																		
• Gilman Springs Rd (EW)	CSS	0.5	0.5	1	0	0	0	1	1	0	0	1	1	-- ⁴	-- ⁴	F	F	
-With Improvements	TS	1.5	0.5	1	0	0	0	1	1	0	0	1	1	27.5	40.5	C	D	
Sanderson Ave. (NS) at:																		
• Ramona Expressway (EW)	TS	1	1	0	1	1	1>	1	1	1>>	1	1	1>	-- ⁴	-- ⁴	F	F	
-With Improvements ⁴	TS	<u>3</u>	<u>5</u>	<u>1>></u>	<u>3</u>	<u>5</u>	<u>1>></u>	<u>3</u>	<u>5</u>	<u>1>></u>	<u>3</u>	<u>5</u>	<u>1>></u>	30.4	-- ⁴	C	F	
• Ramona Blvd. (EW) (Realigned)	CSS	1	1	0	1	1	0	1	1	0	1	1	0	-- ⁴	-- ⁴	F	F	
-With Improvements ⁴	TS	1	4	0	2	4	0	1	1	1	1	1	1	21.3	32.6	C	C	
• Driveway 14 (EW)	CSS	0	1	0	0	3	0	0	0	1	0	0	0	12.4	28.5	B	D	
• De Anza Dr. (EW)	TS	1	3	0	1	3	0	1	1	1	1	1	1	23.1	54.7	C	D	
• Driveway 15 (EW)	CSS	0	1	0	0	3	0	0	0	1	0	0	0	12.8	24.1	B	C	
• Bridge St. (EW)	TS	1	2	0	0	3	0	0	1	0	0	0	0	50.1	32.5	D	C	
• Driveway 16 (EW)	--				DOES NOT EXIST									--	--	--	--	
• Cottonwood Ave. (EW)	TS	1	1	0	1	1	0	1	1	0	1	1	0	-- ⁴	-- ⁴	F	F	
-With Improvements ⁴	TS	<u>2</u>	<u>4</u>	<u>1></u>	<u>2</u>	<u>4</u>	0	1	<u>3</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1></u>	39.5	54.0	D	D	
• Esplanade Ave. (EW)	TS	1	1	0	1	1	1	1	1	0	1	1	1	-- ⁴	-- ⁴	F	F	
-With Improvements ⁴	TS	1	4	0	2	3	1	2	3	1	2	3	1>>	33.7	48.8	C	D	
• Florida Ave. (EW)	TS	1	2	1	1	2	1	1	2	1	1	2	1	-- ⁴	-- ⁴	F	F	
-With Improvements ⁴	TS	<u>2</u>	<u>4</u>	0	<u>2</u>	<u>3</u>	1	<u>2</u>	<u>4</u>	0	<u>2</u>	<u>3</u>	<u>1>></u>	36.8	54.6	D	D	
State St. (NS) at:																		
• Ramona Expressway (EW)	TS	1	2	0	1	2	1	1	2	1	1	2	1	60.0	-- ⁴	E	F	
-With Improvements	TS	<u>2</u>	2	0	1	2	1	1	<u>3</u>	<u>1>></u>	<u>2</u>	<u>3</u>	1	39.1	49.5	D	D	
• Cottonwood Ave. (EW)	TS	1	2	0	1	2	0	0.5	0.5	1	0.5	0.5	1	98.4	-- ⁴	F	F	
-With Improvements	TS	<u>2</u>	2	0	1	2	<u>1></u>	<u>2</u>	<u>1</u>	0	<u>1</u>	<u>1</u>	0	32.9	51.7	C	D	
• Esplanade Ave. (EW)	TS	1	2	0	1	2	1	1	2	1	1	2	1	43.9	-- ⁴	D	F	
-With Improvements	TS	<u>2</u>	<u>2</u>	<u>1</u>	<u>2</u>	2	1	1	2	1	1	2	1	36.8	51.1	D	D	

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1! = Left-Thru-Right Lane; 1> = Right Turn Overlap; 1>> = Free-Right Turn Lane; 1 = IMPROVEMENT

² Delay and level of service calculated using the following analysis software: Traffix, Version 7.9 R4 (2008). Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for worst individual movement (or movements sharing a single lane) are shown.

³ TS = Traffic Signal
 CSS = Cross Street Stop
 AWS = All Way Stop

⁴ Geometrics shown illustrate the need for the MCP and SR-79 improvements and are not intended for construction.

**Table 5.9-12
EACP 2017 with Mid-County Parkway and SR-79 Improvements**

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE	
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM
		L	T	R	L	T	R	L	T	R	L	T	R				
Warren Rd. (NS) at:																	
* MCP Freeway WB Ramps (EW)	TS	0	2	1>>	0	2	1>>	0	0	0	1	0	1>>	11.7	10.2	B	B
* MCP Freeway EB Ramps (EW)	TS	0	2	1	1	2	0	2	0	1>>	0	0	0	12.5	18.4	B	B
Sanderson Ave. (NS) at:																	
* Ramona Expressway (EW)	TS	2	3	1>	2	3	1	1	3	1>	2	3	1	20.9	29.7	C	C
* Street C (EW)	TS	2	3	1>	2	3	1>	2	4	1>>	2	4	1>>	20.8	26.8	C	C
* Ramona Blvd. (EW) (Realigned)	TS	2	3	0	2	3	1	1	1	1	1	1	1>	14.6	16.0	B	B
* Cottonwood Ave. (EW)	TS	2	4	1	2	4	1	2	2	1	2	2	1>	29.1	46.4	C	D
* Esplanade Ave. (EW)	TS	1	4	1	2	3	1	2	3	1	2	2	1>>	26.8	33.3	C	C
* Florida Ave. (EW)	TS	2	3	1	2	3	1>	2	3	1>	2	3	1>>	26.8	35.9	C	D
Sanderson Ave. / SR-79 SB Ramps (NS) at:																	
* Street C (EW)	TS	0	0	0	1.5	0.5	1>>	0	3	1	2	3	0	11.3	17.5	B	B
Sanderson Ave. / SR-79 NB Ramps (NS) at:																	
* Street C (EW)	TS	0.5	0.5	1	0	0	0	0	3	1>>	0	3	1	4.9	11.8	A	B

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1| = Left-Thru-Right Lane; 1> = Right Turn Overlap; 1>> = Free-Right Turn Lane; 1 = IMPROVEMENT

² Delay and level of service calculated using the following analysis software: Traffix, Version 7.9 R4 (2008). Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for worst individual movement (or movements sharing a single lane) are shown.

³ TS = Traffic Signal

As shown in *Table 5.9-12*, for 2023 EACP conditions all of the study intersections are projected to operate at unacceptable LOS E or F during the peak hours without improvements. As in the 2017 EACP scenario, some required improvements would exceed the General Plan typical roadway cross sections and are therefore not feasible due to the uncertainty of obtaining adequate right-of-way for such measures. As shown on *Table 5.9-13*, the improvements in excess of the ultimate planned roadway cross-sections at the study intersections would not be required to achieve acceptable LOS for the EACP 2023 scenario with completion of the Mid-County Parkway and SR-79 projects. However, it should be noted that completion of these regional improvements cannot be guaranteed by the City. As such, the project would contribute to a significant unmitigable impact for EACP 2023 traffic conditions if these improvements are not in place.

Table 5.9-13
2023 Existing + Ambient + Project + Project (EACP) Phases I + II + III
Intersection Conditions with and without Improvements

INTERSECTION	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE		
	TRAFFIC CONTROL ³	NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM
		L	T	R	L	T	R	L	T	R	L	T	R				
Rider Street (NS) at: • Ramona Expressway (EW) -With Improvements ⁴	TS TS	0.5	0.5	1	0	1!	0	1	2	1	2	2	1	-- ⁴	-- ⁴	F	F
Lakeview Ave. (NS) at: • Ramona Expressway (EW) -With Improvements ⁴	CSS TS	1	0	1	0	0	0	0	1	1	1	1	0	-- ⁴	-- ⁴	F	F
Bridge Street (NS) at: • Ramona Expressway (EW) -With Improvements ⁴	CSS TS	0	0	0	1	0	1	1	1	0	0	1	1	-- ⁴	-- ⁴	F	F
Warren Rd. (NS) at: • Ramona Expressway (EW) -With Improvements ⁴ • Cottonwood Ave. (EW) -With Improvements ⁴ • Esplanade Ave. (EW) -With Improvements ⁴	TS TS TS AWS TS	1	1	0	0	1!	0	1	2	1	1	2	0	-- ⁴	-- ⁴	F	F
Odell St. (NS) at: • Ramona Blvd. (EW)	CSS	0	0	0	1	0	0	0	0	0	0	0	1	10.4	11.8	B	B
Driveway 1 (NS) at: • Ramona Blvd. (EW)	CSS	0	1!	0	0	0	0	0	1	0	1	1	0	9.7	11.0	A	B
Driveway 2 (NS) at: • Ramona Blvd. (EW)	CSS	0	1!	0	0	0	0	0	1	0	1	1	0	9.7	11.1	A	B
Driveway 3 (NS) at: • Ramona Blvd. (EW)	CSS	0	1!	0	0	0	0	0	1	0	1	1	0	17.3	12.5	C	B
Cawston Ave. (NS) at: • Ramona Blvd. (EW) • Street "C"/Driveway 4 (EW) • De Anza Dr. (EW) • Bridge St. (EW)	TS CSS CSS --	1	1	0	1	1	0	1	1	0	1	1	0	35.3	21.0	D	C
Driveway 10 (NS) at: • Bridge St. (EW)	--	DOES NOT EXIST										--	--	--	--		
Driveway 5 (NS) at: • Ramona Blvd. (EW)	CSS	0	1!	0	0	0	0	0	1	0	1	1	0	12.9	20.0	B	C
Street "A"/Driveway 6 (NS) at: • De Anza Dr. (EW)	CSS	0	1!	0	0	1!	0	1	1	0	1	1	0	16.7	11.4	C	B
Street "A" (NS) at: • Driveway 8 (EW) • Driveway 9 (EW)	-- --	DOES NOT EXIST DOES NOT EXIST										--	--	--	--		
Street "A"/Driveway 11 (NS) at: • Bridge St. (EW)	CSS	0	0	0	0	1!	0	0	0	0	0	1	0	9.4	9.3	A	A
Driveway 12 (NS) at: • Bridge St. (EW)	--	DOES NOT EXIST										--	--	--	--		
Street "B"/"C"/Driveway 7 (NS) at: • De Anza Dr. (EW)	CSS	0	1!	0	0	1!	0	1	1	0	1	1	0	32.5	17.5	D	C
Street "B"/Driveway 13 (NS) at: • Bridge St. (EW)	CSS	0	0	0	0	1!	0	0	1	0	0	1	0	10.2	9.9	B	A
Sanderson Ave. / SR-79 SB Ramps (NS) at: • Gilman Springs Rd (EW) -With Improvements	CSS TS	0	0	0	0.5	0.5	1	0	1	1	1	1	0	-- ⁴	-- ⁴	F	F
		0	0	0	0.5	0.5	1	0	1	1>>	1	2	0	16.5	30.3	B	C

Table 5.9-13 (Continued)

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE		
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM	
		L	T	R	L	T	R	L	T	R	L	T	R					
Sanderson Ave. / SR-79 NB Ramps (NS) at:																		
• Gilman Springs Rd (EW)	CSS	0.5	0.5	1	0	0	0	1	1	0	0	1	1	-- ⁴	-- ⁴	F	F	
-With Improvements	TS	1.5	0.5	1	0	0	0	1	1	0	0	1	1	30.9	51.4	C	D	
Sanderson Ave. (NS) at:																		
• Ramona Expressway (EW)	TS	1	1	0	1	1	1>	1	1	1>>	1	1	1>	-- ⁴	-- ⁴	F	F	
-With Improvements ⁴	TS	3	5	1>>	3	5	1>>	3	5	1>>	3	5	1>>	40.5	-- ⁴	D	F	
• Ramona Blvd. (EW) (Realigned)	CSS	1	1	0	1	1	0	1	1	0	1	1	0	-- ⁴	-- ⁴	F	F	
-With Improvements ⁴	TS	2	4	0	2	4	1	1	1	1>	1	1	1	30.7	52.5	C	D	
• Driveway 14 (EW)	CSS	0	1	0	0	3	0	0	0	1	0	0	0	13.3	33.8	B	D	
• De Anza Dr. (EW)	TS	2	3	0	1	3	1	1	1	1	1	1	1	23.2	28.5	C	C	
• Driveway 15 (EW)	CSS	0	1	0	0	3	0	0	0	1	0	0	0	14.6	28.6	B	D	
• Bridge St. (EW)	TS	1	3	0	0	3	0	0	1	0	0	0	0	13.8	45.6	B	D	
• Driveway 16 (EW)	--				DOES NOT EXIST									--	--	--	--	
• Cottonwood Ave. (EW)	TS	1	1	0	1	1	0	1	1	0	1	1	0	-- ⁴	-- ⁴	F	F	
-With Improvements ⁴	TS	2	4	1>	2	4	0	2	4	1>	2	3	1>	43.3	53.0	D	D	
• Esplanade Ave. (EW)	TS	1	1	0	1	1	1	1	1	0	1	1	1	-- ⁴	-- ⁴	F	F	
-With Improvements ⁴	TS	1	5	0	2	3	1	2	3	1	2	3	1>>	31.8	54.2	C	D	
• Florida Ave. (EW)	TS	1	2	1	1	2	1	1	2	1	1	2	1	-- ⁴	-- ⁴	F	F	
-With Improvements ⁴	TS	2	4	1	2	3	1	2	4	1	2	3	1>>	39.1	52.8	D	D	
State St. (NS) at:																		
• Ramona Expressway (EW)	TS	1	2	0	1	2	1	1	2	1	1	2	1	-- ⁴	-- ⁴	F	F	
-With Improvements	TS	2	2	0	1	3	1	1	3	1>>	2	3	1	38.5	51.2	D	D	
• Cottonwood Ave. (EW)	TS	1	2	0	1	2	0	0.5	0.5	1	0.5	0.5	1	-- ⁴	-- ⁴	F	F	
-With Improvements	TS	2	2	0	1	2	1>	2	1	1	1	1	0	35.8	54.3	D	D	
• Esplanade Ave. (EW)	TS	1	2	0	1	2	1	1	2	1	1	2	1	45.9	-- ⁴	F	F	
-With Improvements	TS	2	2	1	2	2	1	1	2	1	1	2	1	35.9	48.9	D	D	

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1! = Left-Thru-Right Lane; 1> = Right Turn Overlap; 1>> = Free-Right Turn Lane; **1** = IMPROVEMENT

² Delay and level of service calculated using the following analysis software: Traffix, Version 7.9 R4 (2008). Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for worst individual movement (or movements sharing a single lane) are shown.

³ TS = Traffic Signal
 CSS = Cross Street Stop
 AWS = All Way Stop
Italicized = Lane to be constructed only with the +313 DU Project Alternative

⁴ Geometrics shown illustrate the need for the MCP and SR-79 improvements and are not intended for construction.

Table 5.9-14
EACP 2023 with Mid-County Parkway and SR-79 Improvements

INTERSECTION	TRAFFIC CONTROL ³	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE	
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM
		L	T	R	L	T	R	L	T	R	L	T	R				
Warren Rd. (NS) at:																	
* MCP Freeway WB Ramps (EW)	TS	0	2	1>>	0	2	1>>	0	0	0	1	0	1>>	11.5	10.7	B	B
* MCP Freeway EB Ramps (EW)	TS	0	2	1	1	2	0	2	0	1>>	0	0	0	13.4	22.4	B	C
Sanderson Ave. (NS) at:																	
* Ramona Expressway (EW)	TS	2	3	1>	2	3	1	1	3	1>	2	3	1	21.1	36.4	C	D
* Street C (EW)	TS	2	3	1>	2	3	1>	2	4	1>>	2	4	1>>	21.6	33.7	C	C
* Ramona Blvd. (EW) (Realigned)	TS	2	3	0	2	3	1	1	1	1	1	1	1>	20.5	40.2	C	D
* Cottonwood Ave. (EW)	TS	2	4	1	2	4	1	2	2	1	2	2	1>	29.8	47.7	C	D
* Esplanade Ave. (EW)	TS	1	4	1	2	3	1	2	3	1	2	2	1>>	28.3	39.8	C	D
* Florida Ave. (EW)	TS	2	3	1	2	3	1>	2	3	1>	2	3	1>>	28.1	42.3	C	D
Sanderson Ave. / SR-79 SB Ramps (NS) at:																	
* Street C (EW)	TS	0	0	0	1.5	0.5	1>>	0	3	1	2	3	0	11.0	18.5	B	B
Sanderson Ave. / SR-79 NB Ramps (NS) at:																	
* Street C (EW)	TS	0.5	0.5	1	0	0	0	0	3	1>>	0	3	1	5.7	14.5	A	B

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1! = Left-Thru-Right Lane; 1> = Right Turn Overlap; 1>> = Free-Right Turn Lane; 1 = IMPROVEMENT

² Delay and level of service calculated using the following analysis software: Traffix, Version 7.9 R4 (2008). Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for worst individual movement (or movements sharing a single lane) are shown.

³ TS = Traffic Signal

Intersection Analysis for General Plan Build-Out with Project Phases I + II + III + IV (2035) Conditions

General Plan Build-out with Project Phases I + II + III + IV (2035) Conditions intersection LOS are shown in *Table 5.9-14*. As shown, the following intersections are projected to operate at unacceptable LOS E or F during the peak hours without improvements:

- Warren Road (NS) at:
 - Cottonwood Avenue (EW)
 - Esplanade Avenue (EW)
- Sanderson Avenue (NS) at:
 - Cottonwood Avenue (EW)
 - Esplanade Avenue (EW)

- Florida Avenue (SR-74) (EW)
- Sanderson Avenue (SR-79 SB Ramps) (NS) at:
 - Gilman Springs Road (EW)
- Sanderson Avenue (SR-79 NB Ramps) (NS) at:
 - Gilman Springs Road (EW)
- State Street (NS) at:
 - Cottonwood Avenue (EW)
 - Ramona Expressway
 - Esplanade Avenue.

As shown in *Table 5.9-14*, for General Plan build-out with project Phases I + II + III + IV (2035) Conditions, study area intersections are projected to operate at LOS D or better with the intersection improvements.

**Table 5.9-15
General Plan Build-Out Intersection Analysis**

INTERSECTION	TRAFFIC CONTROL ¹	INTERSECTION APPROACH LANES ¹								DELAY ² (SECS.)		LEVEL OF SERVICE					
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND		WEST-BOUND		AM	PM	AM	PM		
		L	T	R	L	T	R	L	T	R	L	T	R				
Rider Street (NS) at: • Ramona Expressway (EW)		DOES NOT EXIST FOR GENERAL PLAN BUILDOUT ROADWAY NETWORK ⁵															
Lakeview Ave. (NS) at: • Ramona Expressway (EW)		DOES NOT EXIST FOR GENERAL PLAN BUILDOUT ROADWAY NETWORK ⁵															
Bridge Street (NS) at: • Ramona Expressway (EW)		DOES NOT EXIST FOR GENERAL PLAN BUILDOUT ROADWAY NETWORK ⁵															
Warren Rd. (NS) at: • Ramona Exwy (EW)	TS	0	2	1>	1	2	0	0	0	0	2	0	1	9.3	27.5	A	C
• MCP Freeway WB Ramps (EW)	TS	0	2	1>>	0	2	1>>	0	0	0	1	0	1>>	11.3	11.2	B	B
• MCP Freeway EB Ramps (EW)	TS	0	2	1	1	2	0	2	0	1>>	0	0	0	14.4	37.1	B	D
• Ramona Blvd. (EW)	TS	0	2	1	1	2	0	0	0	0	1	0	1>	22.5	26.2	C	C
• De Anza Dr. (EW)	TS	2	2	0	1	2	1	1	1	1>>	1	1	0	16.6	36.2	B	D
• Bridge St. (EW)	TS	0	2	0	1	2	0	0	0	0	1	0	1	12.4	15.3	B	B
• Cottonwood Ave. (EW)	TS	1	1	1	1	1	1	1	1	1	1	1	1	-- ⁴	-- ⁴	F	F
- With Improvements	TS	1	2	1	2	2	1	1	1	1	1	1	1	36.9	47.8	C	D
• Esplanade Ave. (EW)	AWS	0	1!	0	0	1!	0	0	1!	0	0	1!	0	-- ⁴	-- ⁴	F	F
-With Improvements	TS	1	2	0	2	2	0	1	1	0	1	1	1	38.9	53.5	D	D
Odell St. (NS) at: • Ramona Blvd. (EW)	TS	1	2	0	1	1	0	1	1	0	1	1	0	27.9	40.9	C	D
• De Anza Dr. (EW)	TS	1	1	0	1	1	0	1	1	0	1	2	0	22.2	32.0	C	C
• Bridge St. (EW)	TS	0	0	0	0	1!	0	1	1	0	0	1	0	16.0	27.7	B	C
Driveway 1 (NS) at: • Ramona Blvd. (EW)	CSS	0	1!	0	0	0	0	0	2	0	1	1	0	12.6	23.1	B	C
Driveway 2 (NS) at: • Ramona Blvd. (EW)	CSS	0	1!	0	0	0	0	0	2	0	1	1	0	12.2	19.3	B	C
Driveway 3 (NS) at: • Ramona Blvd. (EW) (With High School)	TS	0	1!	0	0	0	0	0	2	0	1	1	0	20.5	--	C	--
• Ramona Blvd. (EW) (With 313 Dus)	CSS	0	1!	0	0	0	0	0	2	0	1	1	0	--	21.5	--	C
Cawston Ave. (NS) at: • Ramona Blvd. (EW)	TS	1	2	0	1	1	0	1	2	0	1	1	1	33.7	44.0	C	D
• Street "C"/Driveway 4 (EW)	CSS	1	2	0	1	2	0	0	1!	0	0	1!	0	9.3	20.6	A	C
• De Anza Dr. (EW)	CSS	1	2	0	1	2	0	1	1	0	1	2	0	23.7	27.2	C	C
• Bridge St. (EW)	TS	0	0	0	0	1!	0	1	1	0	0	2	0	14.1	16.7	B	B
Driveway 10 (NS) at: • Bridge St. (EW)	CSS	0	0	0	0	0	1	0	2	0	0	2	0	9.0	10.1	A	B
Driveway 5 (NS) at: • Ramona Blvd. (EW)	CSS	0	1!	0	0	0	0	0	2	0	1	2	0	16.4	38.7	C	E
-With Improvements ⁴	TS	0	1!	0	0	0	0	0	2	0	1	1	0	10.9	12.8	B	B
-With No Left Turns Out	CSS	0	0	1	0	0	0	0	2	0	1	1	0	10.5	11.4	B	B
Street "A"/Driveway 6 (NS) at: • De Anza Dr. (EW)	CSS	0	1!	0	1	1	0	1	2	0	1	2	0	16.8	30.8	C	D
Street "A" (NS) at: • Driveway 8 (EW)	CSS	1	1	0	0	1	0	0	1!	0	0	0	0	10.1	10.4	B	B
• Driveway 9 (EW)	CSS	1	1	0	0	1	0	0	1!	0	0	0	0	9.3	12.0	A	B
Street "A"/Driveway 11 (NS) at: • Bridge St. (EW)	TS	1	1	0	1	1	0	1	2	0	1	2	0	28.9	32.9	C	C
Driveway 12 (NS) at: • Bridge St. (EW)	CSS	0	0	1	0	0	0	0	2	0	0	2	0	9.1	11.6	A	B
Street "B"/"C"/Driveway 7 (NS) at: • De Anza Dr. (EW)	CSS	0	1!	0	0	1!	0	1	2	0	1	2	0	19.4	32.7	C	D
Street "B"/Driveway 13 (NS) at: • Bridge St. (EW)	TS	1	1	0	1	1	0	1	2	0	1	2	0	26.0	33.9	C	C
Sanderson Ave. (NS) at: • Ramona Expressway (EW)	TS	2	3	1>	2	3	1	1	3	1>	2	3	1	30.3	52.8	C	D
• Street C (EW)	TS	2	3	1>	2	3	1>	2	4	1>>	2	4	1>>	37.6	54.0	C	D

Table 5.9-15 (Continued)

INTERSECTION	TRAFFIC CONTROL ¹	INTERSECTION APPROACH LANES ¹												DELAY ² (SECS.)		LEVEL OF SERVICE			
		NORTH-BOUND			SOUTH-BOUND			EAST-BOUND			WEST-BOUND			AM	PM	AM	PM		
		L	T	R	L	T	R	L	T	R	L	T	R						
• Ramona Blvd. (EW) (Realigned)	IS	2	3	0	2	3	1	1	1	1	1	1	1	1	1	36.8	52.3	D	D
• Driveway 14 (EW)	CSS	0	1	0	0	3	0	0	0	1	0	0	0	0	0	13.0	17.1	B	C
• De Anza Dr. (EW)	IS	2	3	0	2	3	0	1	1	1	1	1	1	1	32.1	52.1	D	D	
• Driveway 15 (EW)	CSS	0	1	0	0	3	0	0	0	1	0	0	0	0	13.4	17.2	B	C	
• Bridge St. (EW)	IS	2	3	0	1	3	1	1	1	1	2	1	0	0	33.6	54.1	C	D	
• Driveway 16 (EW)	CSS	0	1	0	0	3	0	0	0	1	0	0	0	0	14.9	33.8	B	D	
• SR-79 SB Ramps (EW)	IS	0	3	1	2	3	0	0	0	0	3	0	1	0	16.8	41.8	B	D	
• SR-79 NB Ramps (EW)	IS	0	3	1	0	3	1	2	0	1	0	0	0	0	6.2	12.7	A	F	
• Cottonwood Ave. (EW)	TS	1	1	0	1	1	0	1	1	0	1	1	0	0	- ⁴	- ⁴	F	D	
-With Improvements	TS	2	4	1	2	4	1	2	2	1	2	2	1	0	26.4	46.6	C	D	
• Esplanade Ave. (EW)	TS	1	1	0	1	1	1	1	1	0	1	1	1	0	- ⁴	- ⁴	F	F	
-With Improvements	TS	1	4	1	2	3	1	2	3	1	2	2	1	0	32.8	47.8	C	D	
• Florida Ave. (EW)	TS	1	2	1	1	2	1	1	2	1	1	2	1	0	- ⁴	- ⁴	F	F	
-With Improvements	TS	2	3	1	2	3	1	2	3	1	2	3	1	0	53.9	54.2	D	D	
Sanderson Ave. / SR-79 SB Ramps (NS) at:																			
• Gilman Springs Rd (EW)	CSS	0	0	0	0.5	0.5	1	0	1	1	1	1	0	0	- ⁴	- ⁴	F	F	
-With Improvements	IS	0	0	0	1.5	0.5	1	0	1	1	1	2	0	0	14.3	13.7	B	B	
• Street C (EW)	IS	0	0	0	1.5	0.5	1	0	3	1	2	3	0	0	16.4	35.4	B	D	
Sanderson Ave. / SR-79 NB Ramps (NS) at:																			
• Gilman Springs Rd (EW)	CSS	0.5	0.5	1	0	0	0	1	1	0	0	1	1	0	- ⁴	- ⁴	F	F	
-With Improvements	IS	1.5	0.5	1	0	0	0	1	2	0	0	1	1	0	13.7	14.8	B	B	
• Street C (EW)	IS	0.5	0.5	1	0	0	0	0	3	1	0	3	1	0	9.1	21.2	A	C	
State St. (NS) at:																			
• Ramona Expressway (EW)	TS	1	2	0	1	2	1	1	2	1	1	2	1	0	- ⁴	- ⁴	F	F	
-With Improvements	TS	2	3	1	3	3	1	2	4	1	2	3	1	0	38.3	52.8	D	D	
• Cottonwood Ave. (EW)	TS	1	2	0	1	2	0	0.5	0.5	1	0.5	0.5	1	0	- ⁴	- ⁴	F	F	
-With Improvements	TS	2	2	0	1	2	1	2	2	1	1	2	0	0	37.4	54.1	D	D	
• Esplanade Ave. (EW)	TS	1	2	0	1	2	1	1	2	1	1	2	1	0	- ⁴	- ⁴	F	F	
-With Improvements	TS	2	3	1	2	3	1	2	2	1	1	2	1	0	36.0	53.6	D	D	

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1! = Left-Thru-Right Lane; 1> = Right Turn Overlap; 1>> = Free-Right Turn Lane; 1_ = IMPROVEMENT

² Delay and level of service calculated using the following analysis software: Traffix, Version 7.9 R4 (2008). Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for worst individual movement (or movements sharing a single lane) are shown.

³ TS = Traffic Signal
 CSS = Cross Street Stop
 AWS = All Way Stop

⁴ A traffic signal is not warranted at this location. An alternative to provide acceptable LOS would be to prohibit left turns out.

Construction Related Traffic Impacts

Construction-related traffic would involve approximately 20 to 40 workers per day at the project site during each construction phase. Construction-related traffic would use Sanderson Avenue as the primary north/south access to and from the project site while various east/west routes may be used as appropriate during each phase of the project. Mass grading for the entire site would start in December 2011 and would be completed 7 months after. The grading plans anticipate that cut and fill will be balanced; no export or import of soil is planned. Phase I would be completed in December 2015. Fine grading for Phase II would start immediately after the completion of Phase

I in January 2016. Phase II would be completed in December 2017. Phase III would commence immediately after the completion of Phase II in December 2017. Phase III would include the construction of single-family residences and a high school. In July 2018, six months into the development phase, construction of the high school would start. Phase III, including the high school, would be completed in December 2023. Construction of the remaining nonresidential land uses in Phase IV would start in January 2024 and would be completed by December 2033.

The project would involve multiple construction subphases: 1) mass grading, 2) fine site grading of individual phases, 3) utilities/infrastructure (trenching), 4) building construction, 5) paving, and 6) architectural coating. Phases I, II, III, and IV would involve separate construction subphases with the exception of mass grading, which will cover the entire project site and occur during Phase I only. The proposed project would commence in 2011 and would be completed by 2033, for a total construction duration of 22 years. *Table 5.9-16* presents the heavy construction equipment assumptions for each construction stage.

Table 5.9-16
Construction Equipment

Construction Phase	Equipment	Number
Mass Grading	Grader	1
	Rubber Tired Dozers	1
	Tracker/Loader/Backhoe	1
	Water Trucks	1
Fine Grading	Graders	1
	Rubber Tired Dozers	1
	Tracker/Loader/Backhoe	1
	Water Trucks	1
Trenching	Excavators	2
	Tracker/Loader/Backhoe	1
	Other General Industrial Equipment	1
	Tractor/Loaders/Backhoe	1
Building Construction (Residential)	Cranes	1
	Generator Sets	1
	Forklifts	3
	Tractors/Loaders/Backhoe s	3
	Welders	1
Paving (Residential)	Paver	1
	Paving Equipment	2
	Rollers	2
Paving (Commercial/Mixed Use)	Cement and Mortar Mixers	4
	Pavers	1
	Paving Equipment	2

Table 5.9-16 (Continued)

Construction Phase	Equipment	Number
	Rollers	1
	Tractors/Loaders/Backhoes	1
Building Construction (Commercial/Mixed Use)	Cranes	1
	Generator Sets	1
	Forklifts	3
	Tractors/Loaders/Backhoe s	3
	Welders	1

The additional worker and construction-related truck trips to and from the project site would potentially affect traffic operations at project area intersections during peak hours. Potential constructed-related traffic impacts are considered adverse, but less than significant because the increased traffic generation during peak hours would be temporary and intermittent during the construction periods. However, in order to avoid hazards or short-term delay, mitigation is provided for short-term construction traffic impacts (see *Section 5.9.5, Mitigation Measures, Mitigation Measure 5.9-f*). This measure requires a traffic control plan for each phase of the project which will serve to eliminate any potential hazards to surrounding roadways due to abnormally high traffic into or out of the site for a concentrated period of time.

Would the project result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

The proposed residential and commercial/retail structures would not impede existing air traffic navigational patterns or cause a change in the location of existing airport facilities in the region. Therefore, no impacts related to air traffic patterns would occur.

Would the project substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Site access for the proposed development would be provided via a total of 17 driveways including seven full access driveways taking access from Odell Avenue, Cawston Avenue, Sanderson Avenue, Ramona Boulevard South, Bridge Street and De Anza Drive. The location of all driveways and traffic signal installations are shown below on *Figures 5.9-5 through 5.9-8*.

The proposed project provides appropriate access points and interior circulation patterns to ensure that adequate access and circulation is provided to and throughout the development. Site distance at each project access point would be reviewed to ensure standard Caltrans and City of San Jacinto sight distance requirements are provided by the project to avoid potential dangerous intersections. In addition, stop sign, stop bar, and stop legends would be provided at all project

driveways that intersect with public roadways (those not meeting traffic signal warrants), and on-site traffic signing and striping would be implemented in conjunction with detailed construction plans for the project site to ensure that the project provides adequate and safe site access and circulation, which meets minimum design standards applicable to the proposed development.

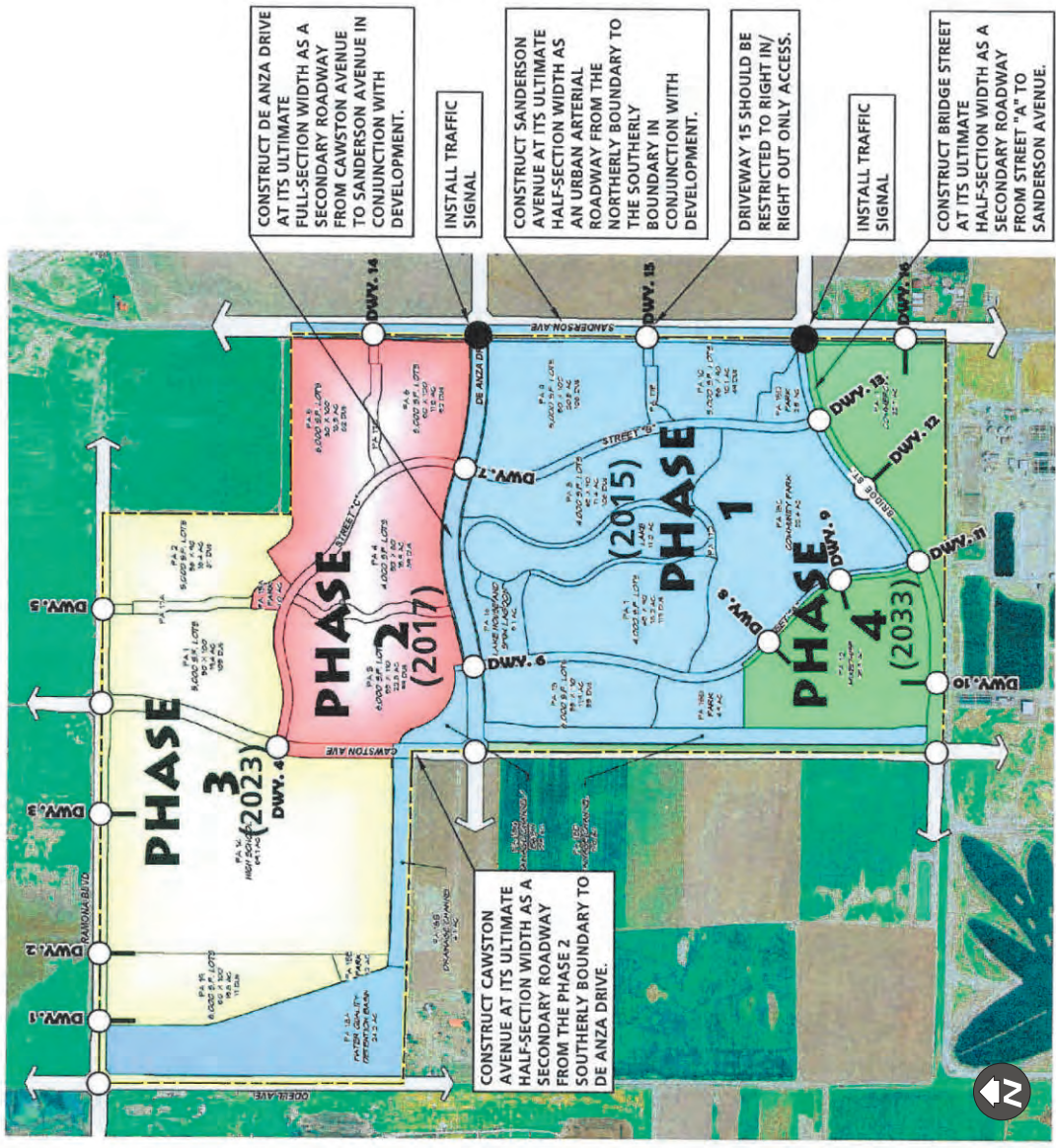
Mitigation measures that address project-related and cumulative traffic volume impacts to the surrounding street network will ensure that site access from the adjacent street system is maintained at acceptable levels to ensure that adequate and safe access and circulation is provided to the site (see *Section 5.9.5, Mitigation Measures, Mitigation Measures 5.9-a through 5.9-f*).

Would the project result in inadequate emergency access?

As discussed above, the project will provide a total of 17 driveways including seven full access driveways and provides interior circulation patterns to ensure that adequate access and circulation is provided to and throughout the development. Therefore, no significant impacts related to emergency access would occur.

Would the project result in inadequate parking capacity?

The project is designed to have adequate parking for the proposed commercial, recreational and residential facilities. Parking requirements are set forth in the Villages of San Jacinto Specific Plan for each Planning Area within the development. Adherence to the project development standards will ensure that there is adequate parking for each proposed land use. The school facility, if built, is subject to the standards for parking adopted by the San Jacinto Unified School District.



CONSTRUCT DE ANZA DRIVE AT ITS ULTIMATE FULL-SECTION WIDTH AS A SECONDARY ROADWAY FROM CAWSTON AVENUE TO SANDERSON AVENUE IN CONJUNCTION WITH DEVELOPMENT.

INSTALL TRAFFIC SIGNAL

CONSTRUCT SANDERSON AVENUE AT ITS ULTIMATE HALF-SECTION WIDTH AS AN URBAN ARTERIAL ROADWAY FROM THE NORTHERLY BOUNDARY TO THE SOUTHERLY BOUNDARY IN CONJUNCTION WITH DEVELOPMENT.

DRIVEWAY 15 SHOULD BE RESTRICTED TO RIGHT IN/RIGHT OUT ONLY ACCESS.

INSTALL TRAFFIC SIGNAL

CONSTRUCT BRIDGE STREET AT ITS ULTIMATE HALF-SECTION WIDTH AS A SECONDARY ROADWAY FROM STREET "A" TO SANDERSON AVENUE.

CONSTRUCT CAWSTON AVENUE AT ITS ULTIMATE HALF-SECTION WIDTH AS A SECONDARY ROADWAY FROM THE PHASE 2 SOUTHERLY BOUNDARY TO DE ANZA DRIVE.

PROVIDE STOP SIGN, STOP BAR, AND STOP LEGEND AT ALL PROJECT DRIVEWAYS THAT INTERSECT WITH PUBLIC ROADWAYS AND DOES NOT MEET TRAFFIC SIGNAL WARRANTS.

LEGEND:

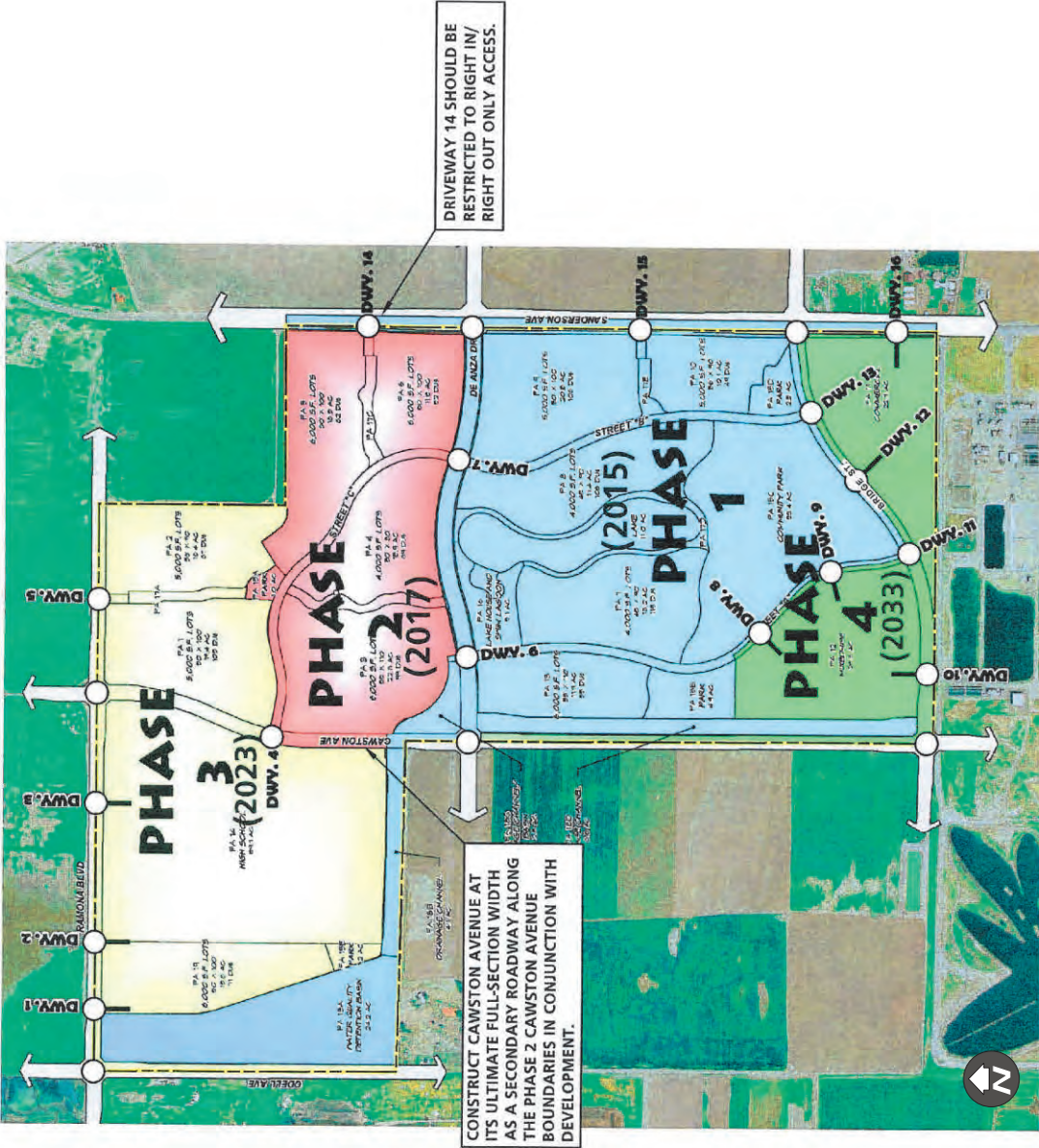
- = ANALYSIS LOCATION
- = TRAFFIC SIGNAL

SOURCE: URBAN CROSSROADS
APRIL 24, 2009

FIGURE 5.9-5

**Villages of San Jacinto EIR
Phase 1 Circulation Recommendations**

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LEGEND:

- = ANALYSIS LOCATION
- * = EXHIBIT DOES NOT ILLUSTRATE PREVIOUS PHASE IMPROVEMENTS

PROVIDE STOP SIGN, STOP BAR, AND STOP LEGEND AT ALL PROJECT DRIVEWAYS THAT INTERSECT WITH PUBLIC ROADWAYS AND DOES NOT MEET TRAFFIC SIGNAL WARRANTS.

SOURCE: URBAN CROSSROADS
APRIL 24, 2009

FIGURE 5.9-6

**Villages of San Jacinto EIR
Phase 2 Circulation Recommendations**

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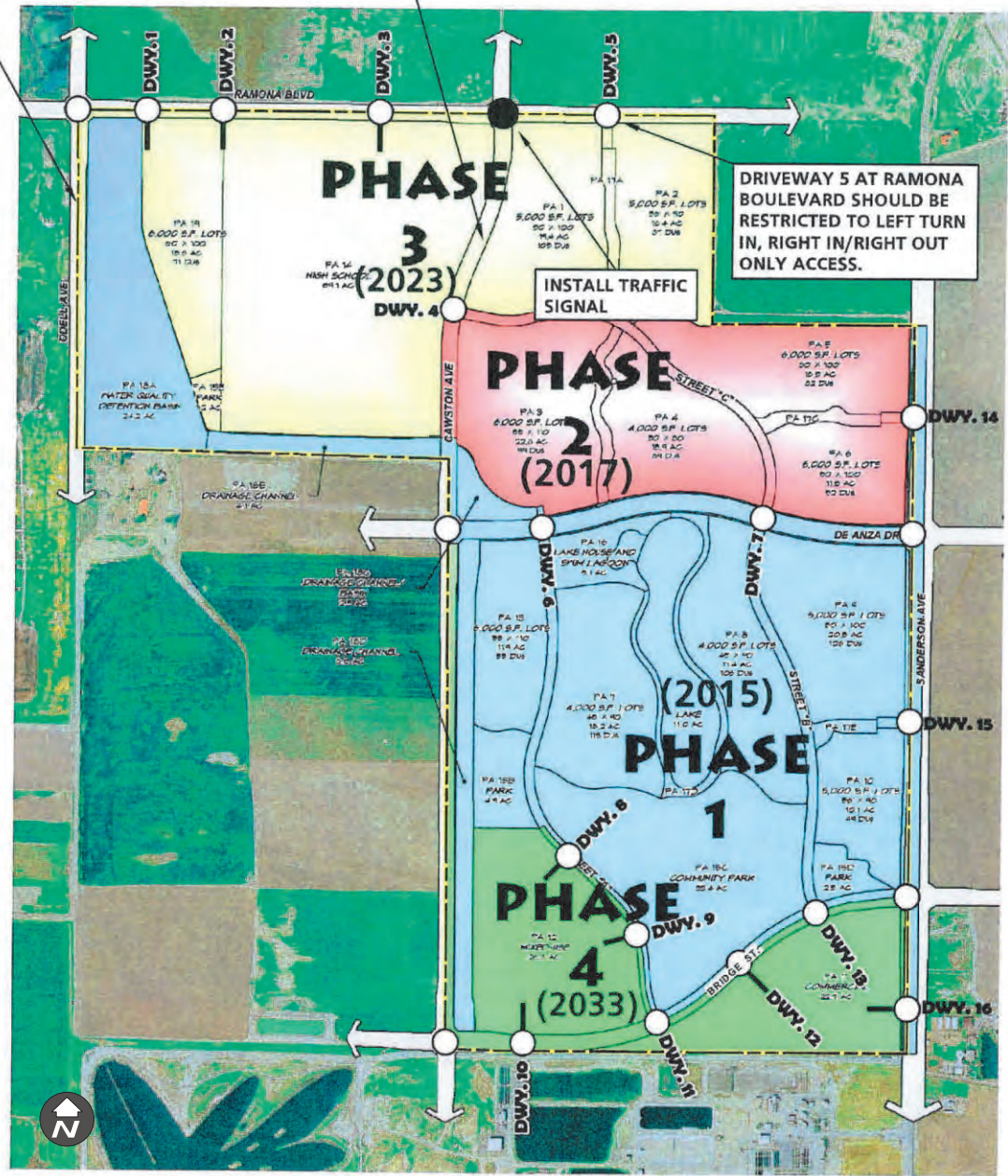
CONSTRUCT ODELL AVENUE AT ITS ULTIMATE HALF-SECTION WIDTH AS A SECONDARY ROADWAY FROM RAMONA BOULEVARD TO THE SOUTHERLY BOUNDARY OF THE PROJECT'S PLANNING AREA 18A IN CONJUNCTION WITH DEVELOPMENT.

CONSTRUCT CAWSTON AVENUE AT ITS ULTIMATE FULL-SECTION WIDTH AS A SECONDARY ROADWAY FROM RAMONA BOULEVARD TO THE PHASE 2 NORTHERLY BOUNDARY IN CONJUNCTION WITH DEVELOPMENT.

DRIVEWAY 5 AT RAMONA BOULEVARD SHOULD BE RESTRICTED TO LEFT TURN, RIGHT IN/RIGHT OUT ONLY ACCESS.

INSTALL TRAFFIC SIGNAL

PROVIDE STOP SIGN, STOP BAR, AND STOP LEGEND AT ALL PROJECT DRIVEWAYS THAT INTERSECT WITH PUBLIC ROADWAYS AND DOES NOT MEET TRAFFIC SIGNAL WARRANTS.



LEGEND:

- = ANALYSIS LOCATION
- = TRAFFIC SIGNAL

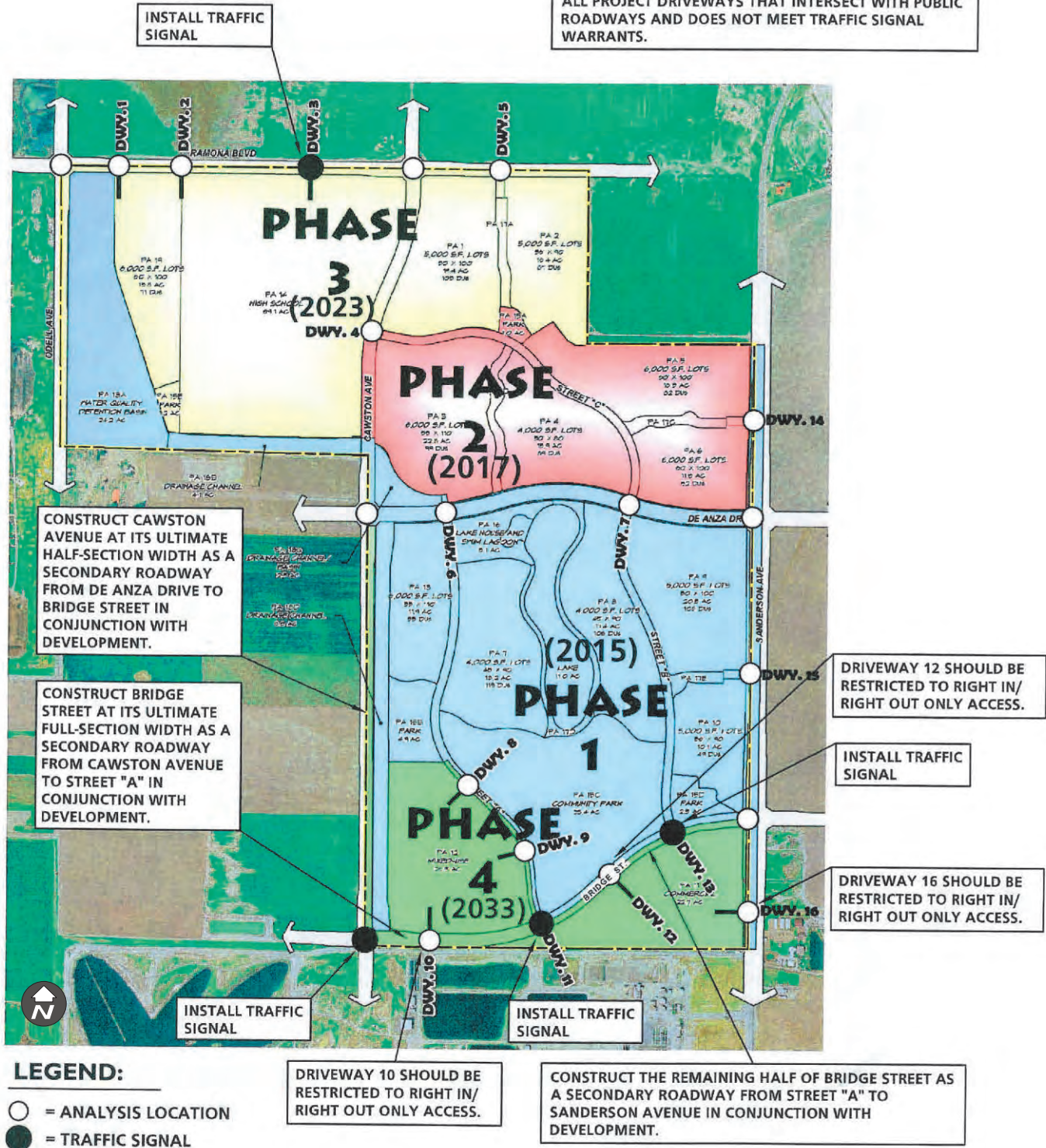
* = EXHIBIT DOES NOT ILLUSTRATE PREVIOUS PHASE IMPROVEMENTS

SOURCE: URBAN CROSSROADS, APRIL 24, 2009

Villages of San Jacinto EIR
Phase 3 Circulation Recommendations FIGURE 5.9-7

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PROVIDE STOP SIGN, STOP BAR, AND STOP LEGEND AT ALL PROJECT DRIVEWAYS THAT INTERSECT WITH PUBLIC ROADWAYS AND DOES NOT MEET TRAFFIC SIGNAL WARRANTS.



LEGEND:

- = ANALYSIS LOCATION
- = TRAFFIC SIGNAL

* = EXHIBIT DOES NOT ILLUSTRATE PREVIOUS PHASE IMPROVEMENTS

SOURCE: URBAN CROSSROADS, APRIL 24, 2009

Villages of San Jacinto EIR
Phase 4 Circulation Recommendations FIGURE 5.9-8

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Would the project conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?

There is currently no bus routes located on or near the project site. Local transit service is provided by the Riverside Transit Agency (RTA) with the nearest route (Route 31) traveling north-south through the City on State Street approximately two miles east of the site. Bus stops and or turnouts could be provided in the future, should RTA decide to locate a route adjacent to the site. One of the goals of the project is to develop a circulation system that meets projected traffic volumes and accommodates a variety of transportation modes and encourages alternatives to automobile use within the community. Design features include a series of landscaped paseos that will serve as pedestrian linkages between land uses. Pedestrian friendly design is encouraged for the mixed use and commercial portions of the project as well. Therefore, the project will not conflict with any adopted policies supporting alternative transportation.

5.9.5 Mitigation Measures

The following measures are site specific circulation and access requirements for each phase of the proposed project.

Phase I

5.9-a The following measures shall be implemented prior to issuance of the first residential and commercial building permits and as depicted on *Figure 5.9-5*:

- Construct Sanderson Avenue at its ultimate half-section width as an Urban Arterial roadway from the project's northerly boundary to the project's southerly boundary in conjunction with development.
- Construct De Anza Drive at its ultimate full-section width as a secondary roadway from Cawston Avenue to Sanderson Avenue in conjunction with development.
- Construct Bridge Street at its ultimate half-section width as a secondary roadway from Street "A" to Sanderson Avenue.
- Construct Cawston Avenue at its ultimate half-section width as a secondary roadway from the Phase II southerly boundary to De Anza Drive.
- Participate in fair share fees to construct a traffic signal at the following intersection in conjunction with Phase I of the development:
 - Sanderson Avenue (NS) at:
 - De Anza Drive (EW).

- Construct a traffic signal at the following intersection in conjunction with Phase I of the development:
 - Sanderson Avenue (NS) at:
 - Bridge Street (EW).
- Provide stop sign, stop bar, and stop legend at all project driveways that intersect with public roadways and do not meet traffic signal warrants.
- Driveway 15 shall be restricted to right in/right out only access.
- Sight distance at each project access shall be reviewed with respect to standard Caltrans and City of San Jacinto sight distance standards at the time of preparation of final grading landscape and street improvement plans.
- On-site traffic signing and striping shall be implemented in conjunction with detailed construction plans for the project site.

Phase II

5.9-b The following measures shall be implemented prior to issuance of the 432nd residential permit, any additional commercial building permits and as depicted on *Figure 5.9-6*:

- Construct Cawston Avenue at its ultimate full-section width as a secondary roadway along the Phase II Cawston Avenue boundaries in conjunction with Phase II of the development.
- Driveway 14 shall be restricted to right in/right out only access.
- Provide stop sign, stop bar, and stop legend at all project driveways that intersect with public roadways and do not meet traffic signal warrants.
- Sight distance at each project access shall be reviewed with respect to standard Caltrans and City of San Jacinto sight distance standards at the time of preparation of final grading landscape and street improvement plans.
- On-site traffic signing and striping shall be implemented in conjunction with detailed construction plans for the project site.

Phase III

5.9-c The following measures shall be implemented prior to issuance of the 754th residential permit, the high school, any additional commercial building permits and as depicted on *Figure 5.9-7*:

- Construct Odell Avenue at its ultimate half-section width as a secondary roadway from Ramona Boulevard to the project's southerly boundary in conjunction with Phase III development.
- Construct Cawston Avenue at its ultimate full-section width as a secondary roadway from Ramona Boulevard to the Phase II northerly boundary in conjunction with Phase III development.
- Construct Ramona Boulevard at its ultimate half-section width as a secondary roadway from Odell Avenue to Sanderson Avenue in conjunction with Phase III development.
- Driveway 5 at Ramona Boulevard shall be restricted to right in/right out only access.
- Participate in fair share fees to construct a traffic signal at the following intersection in conjunction with Phase III of the development:
 - Cawston Avenue (NS) at:
 - Ramona Boulevard (EW).
- Provide stop sign, stop bar, and stop legend at all project driveways that intersect with public roadways and do not meet traffic signal warrants.
- Sight distance at each project access shall be reviewed with respect to standard Caltrans and City of San Jacinto sight distance standards at the time of preparation of final grading landscape and street improvement plans.
- On-site traffic signing and striping shall be implemented in conjunction with detailed construction plans for the project site.
- Construct secondary access for PA 19 as approved by the City Engineer.

Phase IV

5.9-d The following measures shall be implemented prior to issuance of the final remaining commercial building permits and as depicted on *Figure 5.9-8*:

- Construct Cawston Avenue at its ultimate half-section width as a secondary roadway from Bridge Street to De Anza Drive in conjunction with Phase IV development.
- Construct Bridge Street at its ultimate full-section width as a secondary roadway from Cawston Avenue to Street "A" in conjunction with Phase IV development.
- Construct the remaining half of Bridge Street as a secondary roadway from Street "A" to Sanderson Avenue in conjunction with Phase IV development.
- Driveway 10 at Bridge Street shall be restricted to right in/right out only access.

- Driveway 12 at Bridge Street shall be restricted to right in/right out only access.
- Driveway 16 at Sanderson Avenue shall be restricted to right in/right out only access.
- Construct traffic signals at the following intersections in conjunction with Phase IV of the development:
 - Driveway 3 (NS) at:
 - Ramona Boulevard (EW) (Only if High School is constructed)
 - Street "A"/Driveway 11 (NS) at:
 - Bridge Street (EW)
 - Street "B"/Driveway 13 (NS) at:
 - Bridge Street (EW).
- Participate in fair share fees to construct a traffic signal at the following intersection in conjunction with Phase IV of the development:
 - Cawston Avenue (NS) at:
 - Bridge Street (EW).
- Provide stop sign, stop bar, and stop legend at all project driveways that intersect with public roadways and do not meet traffic signal warrants.
- Sight distance at each project access shall be reviewed with respect to standard Caltrans and City of San Jacinto sight distance standards at the time of preparation of final grading landscape and street improvement plans.
- On-site traffic signing and striping shall be implemented in conjunction with detailed construction plans for the project site.

5.9-e Because the project, along with many others in the area, is contributing to the city-wide need for street improvements, the project will need to contribute to the Riverside County TUMF and City of San Jacinto DIF programs. As discussed in *Section 5.9.2*, these fees are collected as part of a funding mechanism aimed at ensuring that local and regional highway capacity keeps pace with projected growth throughout the area. Eligible facilities for funding by the City's DIF program are identified on the City's Facility Needs List, which currently extends through the year 2020. *Table 5.9-17, Estimated TUMF and DIF Fee Calculations*, includes estimated fee calculations for the proposed project based on current fee rates.

Table 5.9-17
Estimated TUMF and DIF Fee Calculations

FEE REFERENCE	SINGLE FAMILY RESIDENTIAL (\$ PER DU)	MULTI-FAMILY (\$ PER DU)	COMMERCIAL (\$ PER SQ FT)	OFFICE / SERVICE (\$ PER SQ FT)	INDUSTRIAL (\$ PER SQ FT)
San Jacinto Development Impact Fee: Streets and Roads Component (DIF) ¹	\$1,468	\$1,239	\$0.17	\$0.17	\$0.14
San Jacinto Development Impact Fee: Traffic Signals (DIF) ¹	\$256	\$216	\$0.03	\$0.03	\$0.02
Transportation Uniform Mitigation Fee (TUMF)	\$9,812	\$7,054	\$9.99	\$5.71	\$1.84

¹ Non-residential uses under DIF have been converted to square footage for comparison purposes. Actual fee based upon acreage as follows:

Fee Type	Commercial	Office	Industrial
Streets and roads:	\$7,226	\$7,226	\$6,102
Signals:	\$1,260	\$1,260	\$1,064

Project With School Site

Program	Category	Unit Cost	Units	Total Cost	Program Totals
DIF - Streets and Roads	SFR	\$1,468	1,016	\$1,491,488	
DIF - Streets and Roads	Commercial	\$0.17	281,572	\$46,709	
DIF - Streets and Roads	Office	\$0.17	309,320	\$51,312	
DIF - Streets and Roads Total					\$1,589,509
DIF - Traffic Signals	SFR	\$1,468	1,016	\$1,491,488	
DIF - Traffic Signals	Commercial	\$0.03	281,572	\$8,145	
DIF - Traffic Signals	Office	\$0.03	309,320	\$8,947	
DIF - Traffic Signals Totals					\$1,508,580
TUMF	SFR	\$9,812	1,016	\$9,968,992	
TUMF	Commercial	\$9.99	281,572	\$2,812,904	
TUMF	Office	\$5.71	309,320	\$1,766,217	
TUMF Totals					\$14,548,113
Totals					\$17,646,202.19

Project Without School Site

Program	Category	Unit Cost	Units	Total Cost	Program Totals
DIF - Streets and Roads	SFR	\$1,468	1,329	\$1,950,972	
DIF - Streets and Roads	Commercial	\$0.17	281,572	\$46,709	
DIF - Streets and Roads	Office	\$0.17	309,320	\$51,312	
DIF - Streets and Roads Total					\$2,048,993
DIF - Traffic Signals	SFR	\$256	1,329	\$340,224	
DIF - Traffic Signals	Commercial	\$0.03	281,572	\$8,145	
DIF - Traffic Signals	Office	\$0.03	309,320	\$8,947	
DIF - Traffic Signals Totals					\$357,316
TUMF	SFR	\$9,812	1,329	\$13,040,148	
TUMF	Commercial	\$9.99	281,572	\$2,812,904	
TUMF	Office	\$5.71	309,320	\$1,766,217	
TUMF Totals					\$17,619,269
Totals					\$20,025,578.19

Notes:

A Floor Area Ratio (FAR) conversion rate of 25% was used for PA11 and 30% for PA12 for fee calculation purposes

Government Office is included in "Office" category for worse case scenario. Most fee programs do not charge a fee for actual government uses.

Many off-site circulation improvements required as a result of project impacts would be mitigated through participation in the TUMF fee program. Many of the off-site improvements that are needed will be planned, designed and constructed by the City, Riverside County Transportation Department, Riverside County Transportation Commission, other cities or a combination of the above.

In order to ensure that all off-site traffic improvements are constructed by the City (or the County/RCTC), prior to construction of specific project phases, the City shall ensure that the improvements are made to compensate for the project's contribution to off-site circulation issues. The project applicant's payment of TUMF and DIF fees will allow the financing mechanism to conduct such improvements.

- 5.9-f** The contractor for each phase of the project shall be required to prepare and implement a traffic control plan (TCP) in order to monitor construction equipment, deliveries and construction worker traffic to eliminate any potential hazards to surrounding roadways due to abnormally high traffic into or out of the site for a concentrated period of time. Each traffic control plan shall outline when flagging operations may be necessary (during large construction equipment arrival or deportation, etc.).

5.9.6 Residual Impacts/Level of Significance after Mitigation

Access and On-Site Circulation

With implementation of the mitigation measures included in *Section 5.9.5, Mitigation Measures*, to ensure that adequate and safe site access and circulation design is provided for the proposed development, potential impacts relative to site access and circulation, and emergency access, would be less than significant.

Cumulative Traffic Impacts/ Regional Mitigation Programs

Implementation of the mitigation measures included in *Section 5.9.5, Mitigation Measures*, would ensure that regional traffic conditions do not dip below an acceptable LOS (LOS D) for existing plus project conditions. However, without completion of the Mid-County Parkway and SR-79 projects, the project would contribute to a cumulative significant impact. There is no feasible mitigation for this significant cumulative impact due to exceedance of General Plan roadway criteria (e.g., triple left turn lanes) and due to the uncertainty of obtaining adequate right-of-way for such measures. Therefore, because the City can not guarantee that regional improvements would be implemented prior to completion of the project, a significant unmitigable cumulative traffic impact would occur. That said, it should be noted that the unacceptable LOS conditions would occur with or without the project under cumulative conditions in the absence of the Mid-County Parkway and SR-79 improvements.

5.10 AIR QUALITY

5.10.1 Introduction and Methodology

This section evaluates short-term (construction) and long-term (operational) impacts to air quality that would potentially occur as a result of implementation of the proposed project. Impacts are evaluated for their significance based on the South Coast Air Quality Management District's (SCAQMD) enumerated environmental thresholds. Mitigation measures required to reduce impacts are recommended as appropriate. However, impacts associated with construction and operation would remain significant after mitigation. Technical information related to the analysis below is contained in *Appendix I* to this EIR.

5.10.2 Existing Conditions

Regional Air Quality and Climate/Meteorology

The project site is located in western Riverside County within the City of San Jacinto, which lies at an elevation of approximately 1,567 feet. The natural topography of the project area can best be described as lying in valley lowland, intersected with rolling hills and surrounded by the Santa Ana Mountains to the west and the San Jacinto Mountains to the east. This project site is located within the South Coast Air Basin (SCAB), which includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino counties. Air quality conditions in the SCAB are under the jurisdiction of the SCAQMD. The SCAQMD regulates stationary sources of pollution throughout its jurisdictional area. Direct emissions from motor vehicles are regulated by the California Air Resources Board (CARB).

Climate/Meteorology

Air quality in the planning area is not only affected by various emission sources (e.g., mobile, industry), but is also affected by atmospheric conditions such as wind speed, wind direction, temperature, and rainfall, etc. The SCAB's combination of topography, low mean mixing height, abundant sunshine, and emissions from one of the largest urban areas in the United States have historically resulted in some of the worst air pollution in the nation.

Although the SCAB has a semi-arid climate, air near the surface is generally moist because of the presence of a shallow marine layer. With very low average wind speeds, there is a limited capacity to disperse air contaminants horizontally. The dominant daily wind pattern is an onshore 8 to 12 miles per hour daytime breeze and an offshore 3 to 5 miles per hour nighttime breeze. The typical wind flow pattern fluctuates only with occasional winter storms, or strong northeasterly Santa Ana winds from the mountains and deserts northeast of the SCAB. Summer

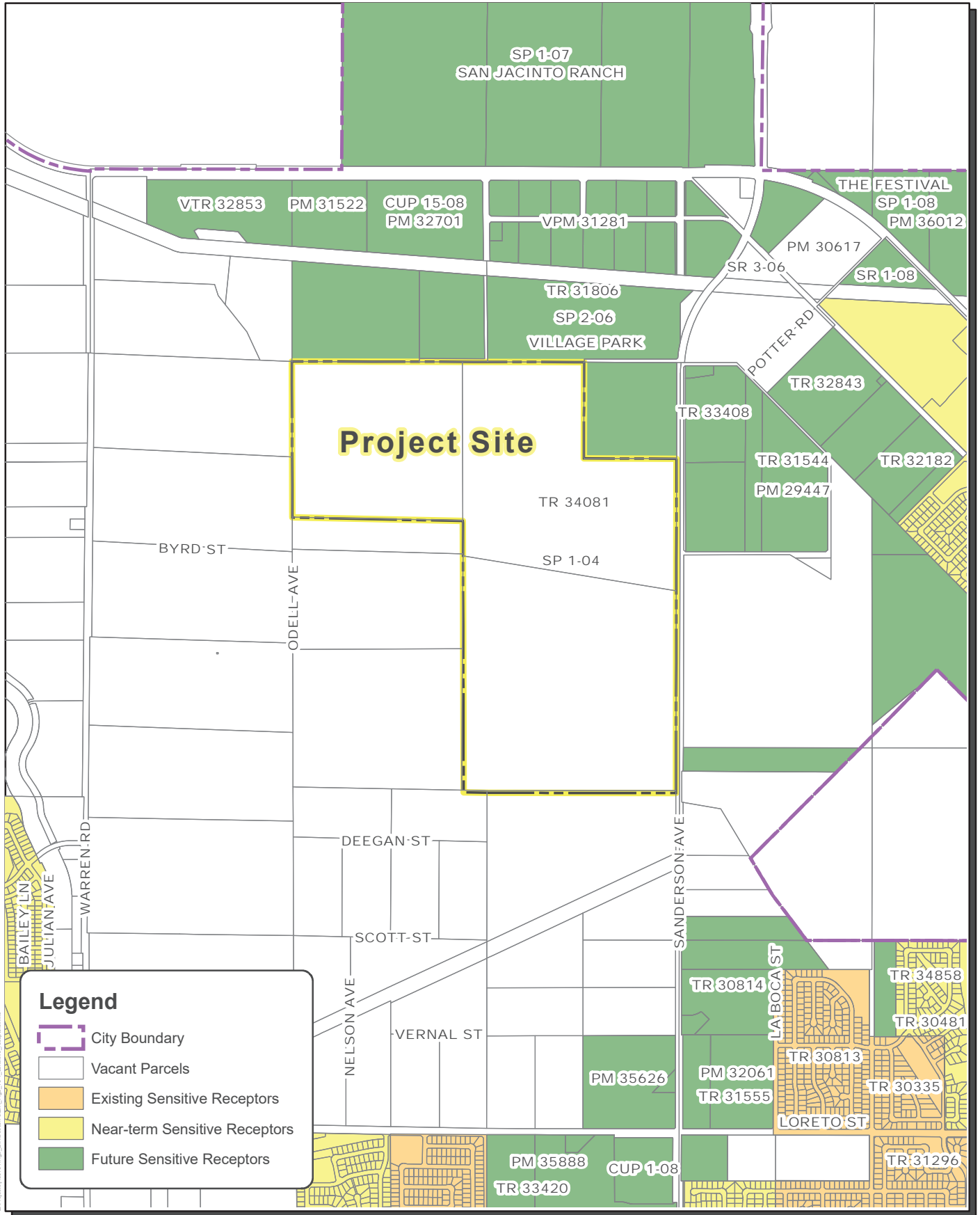
wind flow patterns represent worst-case conditions, as this is the period of higher temperatures and more sunlight, which results in ozone formation.

The San Jacinto area climate is characterized by relatively low rainfall, with warm summers and mild winters. Annual precipitation averages about 13 inches, with over 70% of that falling between December and March. Average monthly temperatures range from a high of 98 degrees Fahrenheit in August to a low of 37 degrees Fahrenheit in December (City-Data.com, Accessed June 6, 2005).

During spring and early summer, pollution produced during any one day is typically blown out of the SCAB through mountain passes or lifted by warm, vertical currents adjacent to mountain slopes. The vertical dispersion of air pollutants in the SCAB is limited by temperature inversions in the atmosphere close to the earth's surface. The combination of stagnant wind conditions and low inversions produces the greatest pollutant concentrations. On days of no inversion or high wind speeds, ambient air pollutant concentrations are lowest. During periods of low inversions and low wind speeds, air pollutants generated in urbanized areas are transported predominantly onshore into Riverside and San Bernardino counties. In the winter, the greatest pollution problems are carbon monoxide and nitrogen dioxide because of extremely low inversions and air stagnation during the night and early morning hours. In the summer, the longer daylight hours and the brighter sunshine combine to cause a reaction between hydrocarbons and oxides of nitrogen to form photochemical smog.

Air Quality Characteristics

Air quality varies as a direct function of the amount of pollutants emitted into the atmosphere, the size and topography of the air basin and the prevailing meteorological conditions. Air quality problems arise when the rate of pollutant emissions exceeds the rate of dispersion. Reduced visibility, eye irritation, and adverse health impacts upon those persons termed sensitive receptors are the most serious hazards of existing air quality conditions in the area. Sensitive receptors are those persons under 5 years of age, or older than 65, and/or persons with health problems; consequently sensitive receptors include hospitals, convalescent homes, schools, and retirement facilities. There are no sensitive receptors currently located adjacent to the proposed project site. However, some existing residential development is located south and southeast of the project site, and some residential developments are currently under construction to the southwest, southeast, south, and east of the proposed project site. Lastly, several parcels adjacent to the proposed project site to the north and northeast may include future residential development during the construction and operational phases of the proposed project. The existing, near-term (under construction) and potential future sensitive receptors in the vicinity of the proposed project are shown in *Figure 5.10-1*.



SOURCE: City of San Jacinto (2009), Riverside TL A (2008)



Villages of San Jacinto EIR
Sensitive Receptors

FIGURE
5.10-1

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Additional discussion of sensitive receptors in the vicinity of the project site is provided in the Localized Significance Thresholds Analysis in *Appendix I*.

Primary criteria pollutants are emitted directly from a source (e.g., an automobile) into the atmosphere and include volatile organic compounds (VOCs), oxides of nitrogen (NO_x), carbon monoxide (CO), sulfur oxides (SO_x) and particulate matter. Particulate matter is generally comprised of inert particles that become airborne, such as dust or ash. Particulate matter less than 10 microns in diameter is referred to as PM₁₀; particulate matter less than 2.5 microns in diameter is referred to as PM_{2.5}. VOCs are also a primary pollutant, but are not a "criteria" pollutant (see discussion below). Secondary pollutants are created by atmospheric chemical and photochemical reactions. Secondary pollutants include oxidants, ozone (O₃), particulate matter, and sulfate particulates.

Global Climate Change

The Earth's climate has undergone many changes during its history, ranging from ice ages to long periods of warmth. Natural factors such as volcanic eruptions, changes in the Earth's orbit, and the amount of energy from the sun have affected global temperatures and thus the Earth's climate. Climate change refers to any significant change in measures of climate (such as temperature, precipitation, or wind) lasting for an extended period (decades or longer) (EPA 2008a). The term climate change is often used interchangeably with the term global warming; however, the phrase "climate change" is preferred as it helps convey that there are other changes in addition to rising temperatures (NAS 2008).

Environmental Setting

The Greenhouse Effect and Greenhouse Gases (GHGs)

Heat retention within the atmosphere is an essential process to sustain life on Earth. The natural process through which heat is retained in the troposphere¹ is called the "greenhouse effect." The greenhouse effect traps heat in the troposphere through a three-fold process as follows: short-wave radiation emitted by the Sun is absorbed by the Earth; the Earth emits a portion of this energy in the form of long-wave radiation; and greenhouse gases (GHGs) in the upper atmosphere absorb this long-wave radiation and emit this long-wave radiation into space and toward the Earth. This "trapping" of the long-wave (thermal) radiation emitted back toward the Earth is the underlying process of the greenhouse effect. This natural process contributes to regulating the earth's temperature without which the temperature of the Earth would be about

¹ The troposphere is the bottom layer of the atmosphere, which varies in height from the Earth's surface to 10 to 12 kilometers).

zero degrees Fahrenheit (-18 degrees Celsius) instead of its present 57 degrees Fahrenheit (14 degrees Celsius) (NCDC 2008).

Gases that trap heat in the atmosphere are often called GHGs. Principal GHGs include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), ozone (O₃), and water vapor (H₂O). Some GHGs, such as CO₂, CH₄, and N₂O, occur naturally and are emitted to the atmosphere through natural processes and human activities. Of these gases, CO₂ and CH₄ are emitted in the greatest quantities from human activities. Man-made GHGs, which have a much greater heat-absorption potential than CO₂, include fluorinated gases, such as hydrofluorocarbons (HFCs), perfluorocarbons (PFC), and sulfur hexafluoride (SF₆), which are byproducts of certain industrial processes. The major GHGs emitted by human activities remain in the atmosphere for periods ranging from decades to centuries; therefore, it is virtually certain that atmospheric concentrations of GHGs will continue to rise over the next few decades (EPA 2007).

It is generally agreed that human activity has been increasing the concentration of GHGs in the atmosphere (mostly carbon dioxide from combustion of coal, oil, and gas, and a few other trace gases) (NCDC 2008). The global atmospheric concentration of carbon dioxide has increased from a pre-industrial value of about 280 ppm to 379 ppm in 2005 (IPCC WGI 2007). Based on current rates of increase, carbon dioxide concentrations could reach between 490 to 1260 ppm by the end of the 21st century, 75 to 350% above the pre-industrial concentration (IPCC 2001).

A warming trend of approximately 1.0 to 1.7 degrees Fahrenheit occurred during the 20th century; warming occurred in both the northern and southern hemispheres, and over the oceans (IPCC WGI 2007). Most of the warming in recent decades is very likely the result of human activities (IPCC WGI 2007). There is much uncertainty, however, concerning the magnitude and rate of the warming. Specifically, the EPA notes that "important scientific questions remain about how much warming will occur, how fast it will occur, and how the warming will affect the rest of the climate system, including precipitation patterns and storms" (EPA 2007).

The effect each GHG has on climate change is measured as a combination of the volume or mass of its emissions, and the potential of a gas or aerosol to trap heat in the atmosphere, known as its global warming potential (GWP), and is expressed as a function of how much warming would be caused by the same mass of CO₂. Thus, GHG gas emissions are typically measured in terms of pounds or tons of "carbon dioxide equivalent" (CO₂E).

Contributions to Greenhouse Gas Emissions

Global

Anthropogenic GHG emissions worldwide in 2005 totaled approximately 41,100 CO₂ equivalent million metric tons (MMT_{CO₂E})² (CAIT 2009). Six countries—China, United States, Russian Federation, India, Japan, Brazil—and the European Community accounted for approximately 60% of the total global emissions, approximately 25,000 MMT_{CO₂E} (CAIT 2009).

United States

The United States was the second highest producer of GHG emissions in 2005. The primary GHG emitted by human activities in the United States was CO₂, representing approximately 84% of total GHG emissions. Carbon dioxide from fossil fuel combustion, the largest source of United States GHG emissions, accounted for approximately 80% of United States GHG emissions (EPA 2008b).

State of California

According to the 2004 GHG inventory data compiled by CARB for the California 1990 GHG emissions inventory, California emitted emissions of 484 MMT_{CO₂E}, including emission resulting from out-of-state electrical generation (CARB 2007b). The primary contributors to GHG emissions in California are transportation, electric power production from both in-state and out-of-state sources, industry, agriculture and forestry, and other sources, which include commercial and residential activities. These primary contributors to California's GHG emissions and their relative contributions in 2004 are presented in *Table 5.10-1, GHG Sources in California*.

² The CO₂ equivalent emissions on a global or national scale are commonly expressed as "million metric tons of carbon dioxide equivalent (MMT_{CO₂E})" The carbon dioxide equivalent for a gas is derived by multiplying the tons of the gas by the associated GWP, such that MMT_{CO₂E} = (million metric tons of a GHG) x (GWP of the GHG). For example, the GWP for methane is 21. This means that emissions of one million metric tons of methane are equivalent to emissions of 21 million metric tons of CO₂.

**Table 5.10-1
GHG Sources in California ¹**

Source Category	Annual GHG Emissions (MMTCO ₂ E) ^a	Percent of Total	Annual GHG Emissions (MMTCO ₂ E) ^b	Percent of Total
Agriculture	27.9	5.8%	27.9	6.6%
Commercial Uses	12.8	2.6%	12.8	3.0%
Electricity Generation	119.8	24.7%	58.5	13.8%
Forestry (excluding sinks)	0.2	0.0%	0.2	0.0%
Industrial Uses	96.2	19.9%	96.2	22.7%
Residential Uses	29.1	6.0%	29.1	6.9%
Transportation	182.4	37.7%	182.4	43.1%
Other ^c	16.0	3.3%	16.0	3.8%
Totals	484.4	100.0%	423.1	100.0%

¹ SOURCES: CARB 2007

^a Includes emissions associated with imported electricity, which account for 61.3 MMTCO₂E annually

^b Excludes emissions associated with imported electricity

^c Unspecified combustion and use of ozone-depleting substances

Potential Effects of Human Activity on Climate Change

Globally, climate change has the potential to impact numerous environmental resources though uncertain impacts related to future air temperatures and precipitation patterns. Scientific modeling predicts that continued emissions of GHGs at or above current rates would induce more extreme climate changes during the 21st century than were observed during the 20th century. A warming of about 0.2 degrees Celsius (0.36 degrees Fahrenheit) per decade is projected, and there are identifiable signs that global warming could be taking place, including substantial ice loss in the Arctic (IPCC WGI 2007).

However, the scientific understanding of the effect of GHG emissions, particulate matter, and aerosols on global climate trends remains uncertain. In addition to uncertainties about the extent to which human activity rather than solar or volcanic activity is responsible for increasing warming, there is also evidence that some human activity has cooling rather than warming effects (IPCC 2001).

Below is a summary of some of the potential effects reported by an array of studies that could be experienced in California as a result of global warming and climate change.

Air Quality

Higher temperatures, conducive to air pollution formation, could worsen air quality in California. Climate change may increase the concentration of ground-level ozone, but the magnitude of the effect, and therefore its indirect effects, are uncertain. For other pollutants, the effects of climate

change and/or weather are less well studied, and even less well understood. If higher temperatures are accompanied by drier conditions, the potential for large wildfires could increase, which, in turn, would further worsen air quality. However, if higher temperatures are accompanied by wetter, rather than drier conditions, the rains would tend to temporarily clear the air of particulate pollution and reduce the incidence of large wildfires, thus ameliorating the pollution associated with wildfires. Additionally, severe heat accompanied by drier conditions and poor air quality could increase the number of heat-related deaths, illnesses, and asthma attacks throughout the state (CCCC 2006).

Water Supply

Uncertainty remains with respect to the overall impact of global climate change on future water supplies in California. Studies have found that, "considerable uncertainty about precise impacts of climate change on California hydrology and water resources will remain until we have more precise and consistent information about how precipitation patterns, timing, and intensity will change" (Kiparsky and Gleck 2003). Even assuming that climate change leads to long-term increases in precipitation, analysis of the impact of climate change is further complicated by the fact that no studies have identified or quantified the runoff impacts such an increase in precipitation would have in particular watersheds (CCCC 2006). Also, little is known about how groundwater recharge and water quality will be affected. Higher rainfall could lead to greater groundwater recharge, although reductions in spring runoff and higher evapotranspiration could reduce the amount of water available for recharge (CCCC 2006).

The California Department of Water Resources report on climate change and effects on the State Water Project, the Central Valley Project, and the Sacramento-San Joaquin Delta concludes that "climate change will likely have a significant effect on California's future water resources [and] future water demand," yet it also reports that much uncertainty about future water demand remains (DWR 2006). Still, changes in water supply are expected to occur, and many regional studies have shown that large changes in the reliability of water yields from reservoirs could result from only small changes in inflows (Kiparsky and Gleck 2003).

Hydrology

As discussed above, climate changes could potentially affect: the amount of snowfall, rainfall and snow pack; the intensity and frequency of storms; flood hydrographs (flash floods, rain or snow events, coincidental high tide and high runoff events); sea level rise and coastal flooding; coastal erosion; and the potential for salt water intrusion. A rise in sea levels could result in coastal flooding and erosion and could jeopardize California's water supply. Increased storm intensity and frequency could affect the ability of flood-control facilities, including levees, to handle storm events.

Agriculture

California has a \$30 billion agricultural industry that produces half the country's fruits and vegetables. Higher CO₂ levels can stimulate plant production and increase plant water-use efficiency. However, if temperatures rise and drier conditions prevail, water demand could increase; crop-yield could be threatened by a less reliable water supply; and greater ozone pollution could render plants more susceptible to pest and disease outbreaks (CCCC 2006).

Ecosystems and Wildlife

Increases in global temperatures and the potential resulting changes in weather patterns could have ecological effects on a global and local scale. Soil moisture is likely to decline in many regions, intense rainstorms are likely to become more frequent, and sea level could rise as much as two feet along most of the United States coast. Rising temperatures could have four major impacts on plants and animals: (1) timing of ecological events; (2) geographic range; (3) species' composition within communities; and (4) ecosystem processes such as carbon cycling and storage (Parmesan and Galbraith 2004).

Regulatory Setting

Federal

The federal Clean Air Act, passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. The EPA is responsible for implementing most aspects of the Clean Air Act, which include National Ambient Air Quality Standards (NAAQS) for major air pollutants, hazardous air pollutant standards, approval of state attainment plans, motor vehicle emission standards, stationary source emission standards and permits, acid rain control measures, stratospheric ozone protection, and enforcement provisions. NAAQS are established for "criteria pollutants" under the Clean Air Act, which are O₃, CO, nitrogen dioxide (NO₂), sulfur dioxide (SO₂), PM₁₀, PM_{2.5}, and lead (Pb).

The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation; these NAAQS may not be exceeded more than once a year, except annual standards, which may never be exceeded. The Clean Air Act requires the EPA to reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a State Implementation Plan that demonstrates how those areas will attain the standards within mandated time frames.

State

The Clean Air Act delegates the regulation of air pollution control and the enforcement of the NAAQS to the states. In California, the task of air quality management and regulation has been legislatively granted to the California Air Resources Board (CARB), with subsidiary responsibilities assigned to AQMDs and air pollution control districts at the regional and county levels. CARB, which became part of the California Environmental Protection Agency (Cal-EPA) in 1991, is responsible for ensuring implementation of the California Clean Air Act (CCAA) of 1988, responding to the federal Clean Air Act, and regulating emissions from motor vehicles and consumer products.

CARB has established California Ambient Air Quality Standards (CAAQS), which are more restrictive than the NAAQS, consistent with the Clean Air Act, which requires state regulations to be at least as restrictive as the federal requirements. The CAAQS describe adverse conditions; that is, pollution levels must be below these standards before a basin can attain the standard. Air quality is considered in "attainment" if pollutant levels are continuously below the standards and violate the standards no more than once each year. The NAAQS and CAAQS are presented in *Table 5.10-2, California and National Ambient Air Quality Standards*.

**Table 5.10-2
California and National Ambient Air Quality Standards**

Pollutant	Averaging Time	California Standards ^{a,c}	National Standards ^b	
			Primary ^{c,d}	Secondary ^{c,e}
Ozone (O ₃)	1-hour	0.09 ppm (180 µg/m ³)	—	Same as primary
	8-hour	0.070 ppm (137 µg/m ³)	0.075 ppm (147 µg/m ³)	Same as primary
Carbon monoxide (CO)	8-hour	9.0 ppm (10 mg/m ³)	9 ppm (10 mg/m ³)	—
	1-hour	20 ppm (23 mg/m ³)	35 ppm (40 mg/m ³)	—
Nitrogen dioxide (NO ₂)	Annual	0.030 ppm (57 µg/m ³)	0.053 ppm (100 µg/m ³)	Same as primary
	1-hour	0.18 ppm (339 µg/m ³)	—	—
Sulfur dioxide (SO ₂)	Annual	—	0.030 ppm (80 µg/m ³)	—
	24-hour	0.04 ppm (105 µg/m ³)	0.14 ppm (365 µg/m ³)	—
	3-hour	—	—	0.5 ppm (1,300 µg/m ³)
	1-hour	0.25 ppm (655 µg/m ³)	—	—
Respirable Particulate Matter (PM ₁₀)	Annual	20 µg/m ³ *	—	Same as primary
	24-hour	50 µg/m ³	150 µg/m ³	Same as primary
Fine Particulate Matter (PM _{2.5})	Annual	12 µg/m ³ **	15.0 µg/m ³	Same as primary
	24-hour	—	35 µg/m ³	Same as primary

Table 5.10-2 (Continued)

Pollutant	Averaging Time	California Standards ^{a,c}	National Standards ^b	
			Primary ^{c,d}	Secondary ^{c,e}
Lead	30-day	1.5 µg/m ³	—	—
	Quarterly	—	1.5 µg/m ³	Same as primary
Hydrogen sulfide	1-hour	0.03 ppm (42 µg/m ³)	—	—
Vinyl chloride	24-Hour	0.01 ppm (26 µg/m ³)	—	—
Sulfates	24-hour	25 µg/m ³	—	—
Visibility reducing particles ^f	8-hour (10:00 a.m. to 6:00 p.m. PST)	In sufficient amount to produce an extinction coefficient of 0.23 per kilometer due to particles when the relative humidity is less than 70%.	—	—

SOURCE: CARB 2008

a. California standards for O₃, CO, SO₂ (1 hour), NO₂, PM₁₀, PM_{2.5}, and visibility reducing particles, are values that are not to be exceeded. The standards for SO₂ (24-hour), sulfates, lead, hydrogen sulfide, and vinyl chloride standards are not to be equaled or exceeded.

b. National standards (other than ozone, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration in a year, averaged over 3 years, is equal to or less than the standard. For PM₁₀, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than one. For PM_{2.5}, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

c. Concentration expressed first in units in which it was promulgated. Equivalent units given in parenthesis are based on a reference temperature of 25°C and a reference pressure of 760 mm of mercury (1,013.2 millibars). All measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 mm of mercury; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

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

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

f. This standard is intended to limit the frequency and severity of visibility impairment due to regional haze and is equivalent to a 10-mile nominal visual range when relative humidity is less than 70%.

* Measured as an arithmetic mean. New standard promulgated by the ARB on June 20, 2002

** New standard promulgated by the ARB on June 20, 2002

Local

While CARB is responsible for the regulation of mobile emission sources within the state, local AQMDs and air pollution control districts are responsible for enforcing standards and regulating stationary sources. The SCAQMD is the regional agency responsible for the regulation and enforcement of federal, state, and local air pollution control regulations in the SCAB, where the proposed project is located. The SCAQMD operates monitoring stations in the SCAB, develops rules and regulations for stationary sources and equipment, prepares emissions inventory and air quality management planning documents, and conducts source testing and inspections. The SCAQMD's Air Quality Management Plans (AQMP) include control measures and strategies to be implemented to attain state and federal ambient air quality standards in the SCAB. The SCAQMD then implements these control measures as regulations to control or reduce criteria pollutant emissions from stationary sources or equipment.

The South Coast Air Quality Management District Governing Board adopted the 2003 AQMP on August 1, 2003. The 2003 AQMP updates the attainment demonstration for the federal standards for O₃ and PM₁₀; replaces the 1997 attainment demonstration for the federal CO standard,

provides a basis for a maintenance plan for CO for the future; and updates the maintenance plan for the federal NO₂ standard that the SCAB has met since 1992. The South Coast Air Quality Management District Governing Board adopted the 2007 AQMP on June 1, 2007. The 2007 AQMP includes the same updates as the 2003 AQMP and also incorporates significant new scientific data, primarily in the form of updated emissions inventories, ambient measurements, new meteorological episodes and new air quality modeling tools. As part of the 2007 AQMP, the SCAQMD request that EPA "bump up" the O₃ nonattainment status from severe to extreme to allow additional time for the SCAB to achieve attainment with the federal standard. The additional time would provide for implementation of state and federal measures that apply to sources over which the SCAQMD does not have control. The 2007 AQMP has been approved by CARB but is undergoing review by EPA.

Emissions that would result from mobile, stationary, and areas sources during construction and operation of the proposed project are subject to the rules and regulations of the SCAQMD. The SCAQMD rules applicable to the proposed project may include the following.

Rule 403 (Fugitive Dust)

This rule requires fugitive dust sources to implement Best Available Control Measures for all sources and all forms of visible particulate matter are prohibited from crossing any property line. SCAQMD Rule 403 is intended to reduce PM₁₀ emissions from any transportation, handling, construction, or storage activity that has the potential to generate fugitive dust (see also Rule 1186).

Rule 431.2 (Sulfur Content of Liquid Fuels)

The purpose of this rule is to limit the sulfur content in diesel and other liquid fuels for the purpose of both reducing the formation of SO_x and particulates during combustion and to enable the use of add-on control devices for diesel fueled internal combustion engines. The rule applies to all refiners, importers, and other fuel suppliers such as distributors, marketers and retailers, as well as to users of diesel, low-sulfur diesel, and other liquid fuels for stationary source applications in the District. The rule also affects diesel fuel supplied for mobile source applications.

Rule 445 (Wood Burning Devices)

This rule prohibits the installation of permanently installed wood-burning devices into any new development and restricts the installation of wood-burning devices into existing development to specific devices, primarily those certified by EPA.

Rule 1113 (Architectural Coatings)

This rule requires manufacturers, distributors, and end-users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

Rule 1121 (Control of Nitrogen Oxides from Residential Type, Natural Gas-Fired Water Heaters)

This rule prescribes NOx emission limits for natural gas-fired water heaters with heat input rates less than 75,000 BTU per hour. It applies to manufacturers, distributors, retailers, and installers of natural gas-fired water heaters.

Rule 1146.2 (Emissions of Oxides of Nitrogen from Large Water Heaters and Small Boilers and Process Heaters)

This rule requires manufacturers, distributors, retailers, refurbishers, installers and operators of new and existing units to reduce NOx emissions from natural gas-fired water heaters, boilers, and process heaters as defined in this rule.

Rule 1186 (PM10 Emissions from Paved and Unpaved Roads, and Livestock Operations)

This rule applies to owners and operators of paved and unpaved roads and livestock operations. The rule is intended to reduce PM10 emissions by requiring the clean-up of material deposited onto paved roads, use of certified street sweeping equipment, and treatment of high-use unpaved roads (see also Rule 403).

Greenhouse Gas Regulatory Programs

International Activities

Kyoto Protocol

The United States is, and has been, a participant in the United Nations Framework Convention on Climate Change (UNFCCC) since it was signed on March 21, 1994. The Kyoto Protocol is a treaty made under the UNFCCC and was the first international agreement to regulate GHG emissions. The original Kyoto Protocol was negotiated in December 1997 and came into force on February 16, 2005. As of January 2009, 183 countries and the European Economic Community (EEC) have ratified the agreement (UNFCCC 2009). The goal of the protocol is to achieve overall emissions reduction targets for six GHGs by the period 2008 to 2012.

Federal Activities

Massachusetts vs. EPA

To date, the EPA has not regulated GHGs under the Clean Air Act based on the assertion that "(1) the Act does not authorize it to issue mandatory regulations to address global climate change, and (2) even if it had the authority to set GHG emission standards, it would have been unwise to do so at that time because a causal link between GHGs and the increase in global surface air temperatures was not unequivocally established."³ In *Massachusetts v. EPA*, however, the Supreme Court held that EPA has the statutory authority under Section 202 of the Clean Air Act to regulate GHGs from new motor vehicles because GHGs meet the Clean Air Act definition of an air pollutant.⁴ The court did not hold that the EPA was required to regulate GHG emissions; however, it indicated that the agency must decide whether GHGs from motor vehicles cause or contribute to air pollution that is reasonably anticipated to endanger public health or welfare. Upon the final decision, President Bush signed Executive Order 13432 on May 14, 2007, directing the EPA, along with the Departments of Transportation, Energy, and Agriculture, to initiate a regulatory process that responds to the Supreme Court's decision.

In *Massachusetts v. EPA*, the Supreme Court directed the Administrator to determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In making these decisions, the Administrator is required to follow the language of Section 202(a) of the Clean Air Act. On April 17, 2009, the Administrator signed a proposal with two distinct findings regarding greenhouse gases under section 202(a) of the Clean Air Act:

- The Administrator is proposing to find that the current and projected concentrations of the mix of 6 key greenhouse gases—CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆—in the atmosphere threaten the public health and welfare of current and future generations. This is referred to as the endangerment finding.
- The Administrator is further proposing to find that the combined emissions of CO₂, CH₄, N₂O, and HFCs from new motor vehicles and motor vehicle engines contribute to the atmospheric concentrations of these key greenhouse gases and hence to the threat of climate change. This is referred to as the cause or contribute finding.

³ *Massachusetts et al. v. Environmental Protection Agency et al.*, 549 U.S. 497 (2007).

⁴ *Ibid.*

Energy Independence and Security Act

On December 19, 2007, President Bush signed the Energy Independence and Security Act of 2007. Among other key measures, the Act would do the following, which would aid in the reduction of national GHG emissions:

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

State of California

AB 1493

In a response to the transportation sector accounting for more than half of California's CO₂ emissions, Assembly Bill 1493 (AB 1493, Pavley) was enacted on July 22, 2002. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by the state board to be vehicles whose primary use is noncommercial personal transportation in the state. The bill required that CARB set the GHG emission standards for motor vehicles manufactured in 2009 and all subsequent model years. CARB adopted the standards in September 2004. When fully phased in, the near-term (2009–2012) standards will result in a reduction of about 22% in GHG emissions compared to the emissions from the 2002 fleet, while the mid-term (2013–2016) standards will result in a reduction of about 30%.

In December 2004, these regulations were challenged in federal court by the Alliance of Automobile Manufacturers, which claimed that the law regulated vehicle fuel economy, a duty assigned to the federal government. Upon the U.S. Supreme Court's decision in *Massachusetts v. EPA*, the U.S. District Court for the Eastern District dismissed the case by the Alliance of Automobile Manufacturers in December 2007. However, before these regulations may go into effect, the EPA must grant California a waiver under the federal Clean Air Act, which ordinarily preempts state regulation of motor vehicle emission standards. On December 19, 2007, Stephen Johnson, the EPA Administrator, denied the waiver citing the need for a national approach to

reducing GHG emissions, the lack of a "need to meet compelling and extraordinary conditions," and the benefits to be achieved through the Energy Independence and Security Act of 2007 (Johnson 2007). The California Attorney General subsequently filed suit in January 2008 to overturn the administrator's decision. The Obama Administration has reevaluated the waiver, and the waiver was granted by Lisa Jackson, the EPA Administrator, on June 30, 2009.

SB 1078

Approved by Governor Davis in September 2002, Senate Bill 1078 (SB 1078, Sher) established the Renewal Portfolio Standard program, which requires an annual increase in renewable generation by the utilities equivalent to at least 1% of sales, with an aggregate goal of 20% by 2017. This goal was subsequently accelerated, requiring utilities to obtain 20% of their power from renewable sources by 2010 (see SB 107). (See also Executive Order S-14-08.)

Executive Order S-3-05

In June 2005, Governor Schwarzenegger established California's GHG emissions reduction targets in Executive Order S-3-05. The Executive Order established the following goals: GHG emissions should be reduced to 2000 levels by 2010; GHG emissions should be reduced to 1990 levels by 2020; and GHG emissions should be reduced to 80% below 1990 levels by 2050. The Secretary of CalEPA is required to coordinate efforts of various agencies in order to collectively and efficiently reduce GHGs. Representatives from several state agencies comprise the Climate Action Team. The Climate Action Team is responsible for implementing global warming emissions reduction programs. The Climate Action Team fulfilled its report requirements through the March 2006 Climate Action Team Report to Governor Schwarzenegger and the legislature (CAT 2006). A second biennial report was released in April 2009.

The 2009 Draft Climate Action Team Report expands on the policy oriented in the 2006 assessment. The 2009 report provides new information and scientific findings regarding the development of new climate and sea-level projections using new information and tools that have recently become available and evaluates climate change within the context of broader soil changes, such as land use changes and demographics. The 2009 report also identifies the need for additional research in several different aspects that affect climate change in order to support effective climate change strategies. The aspects of climate change that were discussed that need future research include vehicle and fuel technologies, land use and smart growth, electricity and natural gas, energy efficiency, renewable energy and reduced carbon energy sources, low GHG technologies for other sectors, carbon sequestration, terrestrial sequestration, geologic sequestration, economic impacts and considerations, social science, and environmental justice.

SB 107

Approved by Governor Schwarzenegger on September 26, 2006, Senate Bill 107 (SB 107, Simitian) requires investor-owned utilities such as Pacific Gas and Electric, Southern California Edison, and San Diego Gas and Electric, to generate 20% of their electricity from renewable sources by 2010. Previously, state law required that this target be achieved by 2017 (see SB 1078).

AB 32

In furtherance of the goals established in Executive Order S-3-05, the legislature enacted Assembly Bill 32 (AB 32, Nuñez and Pavley), the California Global Warming Solutions Act of 2006, which Governor Schwarzenegger signed on September 27, 2006. The GHG emissions limit is equivalent to the 1990 levels, which are to be achieved by 2020.

CARB was been assigned to carry out and develop the programs and requirements necessary to achieve the goals of AB 32. Under AB 32, CARB must adopt regulations requiring the reporting and verification of statewide GHG emissions. This program will be used to monitor and enforce compliance with the established standards. CARB is also required to adopt rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emission reductions. AB 32 allows CARB to adopt market-based compliance mechanisms to meet the specified requirements. Finally, CARB is ultimately responsible for monitoring compliance and enforcing any rule, regulation, order, emission limitation, emission reduction measure, or market-based compliance mechanism adopted.

The first action under AB 32 resulted in the adoption of a report listing early action GHG emission reduction measures on June 21, 2007. The early actions include three specific GHG control rules. On October 25, 2007, CARB approved an additional six early action GHG reduction measures under AB 32. The original three adopted early action regulations meeting the narrow legal definition of "discrete early action GHG reduction measures" include:

- A low-carbon fuel standard to reduce the "carbon intensity" of California fuels
- Reduction of refrigerant losses from motor vehicle air conditioning system maintenance to restrict the sale of "do-it-yourself" automotive refrigerants
- Increased methane capture from landfills to require broader use of state-of-the-art methane capture technologies.

The additional six early action regulations, which were also considered "discrete early action GHG reduction measures," include:

1. Reduction of aerodynamic drag, and thereby fuel consumption, from existing trucks and trailers through retrofit technology
2. Reduction of auxiliary engine emissions of docked ships by requiring port electrification
3. Reduction of perfluorocarbons from the semiconductor industry
4. Reduction of propellants in consumer products (e.g., aerosols, tire inflators, and dust removal products)
5. Require that all tune-up, smog check and oil change mechanics ensure proper tire inflation as part of overall service in order to maintain fuel efficiency
6. Restriction on the use of sulfur hexafluoride (SF₆) from non-electricity sectors if viable alternatives are available.

As required under AB 32, on December 6, 2007, CARB approved the 1990 GHG emissions inventory, thereby establishing the emissions limit for 2020. The 2020 emissions limit was set at 427 MMT CO₂E. In addition to the 1990 emissions inventory, CARB also adopted regulations requiring mandatory reporting of GHGs for large facilities that account for 94% of GHG emissions from industrial and commercial stationary sources in California. About 800 separate sources that fall under the new reporting rules and include electricity generating facilities, electricity retail providers and power marketers, oil refineries, hydrogen plants, cement plants, cogeneration facilities, and other industrial sources that emit carbon dioxide in excess of specified thresholds.

On December 11, 2008, CARB approved the Scoping Plan to achieve the goals of AB 32. The Scoping Plan establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. The Scoping Plan evaluates opportunities for sector-specific reductions, integrates all CARB and Climate Action Team early actions and additional GHG reduction measures by both entities, identifies additional measures to be pursued as regulations, and outlines the role of a cap-and-trade program. Additional development of these measures and adoption of the appropriate regulations will occur over the next 2 years, becoming effective by January 1, 2012. The key elements of the Scoping Plan include (CARB 2008):

- Expanding and strengthening existing energy efficiency programs as well as building and appliance standards;
- Achieving a statewide renewables energy mix of 33%;
- Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system and caps sources contributing 85% of California's GHG emissions;

- Establishing targets for transportation-related GHG emissions for regions throughout California, and pursuing policies and incentives to achieve those targets;
- Adopting and implementing measures pursuant to existing state laws and policies, including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standard; and
- Creating targeted fees, including a public goods charge on water use, fees on high global warming potential gases, and a fee to fund the administrative costs of the State of California's long term commitment to AB 32 implementation.

SB 1368

In September 2006, Governor Schwarzenegger signed SB 1368, which requires the CEC to develop and adopt regulations for GHG emissions performance standards for the long-term procurement of electricity by local publicly-owned utilities. These standards must be consistent with the standards adopted by the Public Utilities Commission. This effort will help to protect energy customers from financial risks associated with investments in carbon-intensive generation by allowing new capital investments in power plants whose GHG emissions are as low or lower than new combined-cycle natural gas plants, by requiring imported electricity to meet GHG performance standards in California and requiring that the standards be developed and adopted in a public process.

Executive Order S-1-07

Issued on January 18, 2007, Executive Order S-1-07 sets a declining Low Carbon Fuel Standard (LCFS) for GHG emissions measured in CO₂-equivalent gram per unit of fuel energy sold in California. The target of the LCFS is to reduce the carbon intensity of California passenger vehicle fuels by at least 10% by 2020. The carbon intensity measures the amount of GHG emissions in the lifecycle of a fuel, including extraction/feedstock production, processing, transportation, and final consumption, per unit of energy delivered. CARB adopted the implementing regulation in April 2009. The regulation is expected to increase the production of biofuels, including those from alternative sources such as algae, wood, and agricultural waste. In addition, the LCFS would drive the availability of plug-in hybrid, battery electric, and fuel-cell power motor vehicles. The LCFS is anticipated to replace 20% of the fuel used in motor vehicles with alternative fuels by 2020.

SB 97

In August 2007, the legislature enacted SB 97 (Dutton), which directs the Governor's Office of Planning and Research (OPR) to develop guidelines under CEQA for the mitigation of GHG emissions. OPR is to develop proposed guidelines by July 1, 2009, and the Natural Resources

Agency is directed to adopt guidelines by January 1, 2010. On April 13, 2009, OPR submitted to the Secretary for Natural Resources its proposed amendments to the state CEQA Guidelines. This bill also protects projects funded by the Highway Safety, Traffic Reduction, Air Quality and Port Security Bond Act of 2006, or the Disaster Preparedness and Flood Protection Bond Act of 2006 from claims of inadequate analysis of GHG as a legitimate cause of action. This latter provision will be repealed on January 1, 2010.

On June 19, 2008, OPR issued a technical advisory as interim guidance regarding the analysis of GHG emissions in CEQA documents (OPR 2008). The advisory indicated that a project's GHG emissions, including those associated with vehicular traffic, energy consumption, water usage, and construction activities, should be identified and estimated. The advisory further recommended that the lead agency determine significance of the impacts and impose all mitigation measures that are necessary to reduce GHG emissions to a less-than-significant level.

On April 13, 2009, OPR submitted to the Natural Resources Agency its proposed amendments to the state CEQA Guidelines relating to greenhouse gas emissions. On July 3, 2009, the Natural Resources Agency commenced the Administrative Procedure Act rulemaking process for certifying and adopting the proposed amendments, starting the public comment period. The Natural Resources Agency is directed to adopt guidelines by January 1, 2010.

SB 375

In August 2008, the legislature passed and on September 30, 2008, Governor Schwarzenegger signed SB 375 (Steinberg), which addresses GHG emissions associated with the transportation section through regional transportation and sustainability plans. By September 30, 2010, CARB will assign regional GHG reduction targets for the automobile and light truck sector for 2020 and 2035. The targets are required to consider the emission reductions associated with vehicle emission standards (see SB 1493), the composition of fuels (see Executive Order S-1-07), and other CARB-approved measures to reduce GHG emissions. Regional metropolitan planning organizations will be responsible for preparing a Sustainable Communities Strategy within the Regional Transportation Plan. The goal of the Sustainable Communities Strategy is to establish a development plan for the region, which, after considering transportation measures and policies, will achieve, if feasible, the GHG reduction targets. If a Sustainable Communities Strategy is unable to achieve the GHG reduction target, a metropolitan planning organization must prepare an Alternative Planning Strategy demonstrating how the GHG reduction target would be achieved through alternative development patterns, infrastructure, or additional transportation measures or policies. SB 375 provides incentives for streamlining CEQA requirements by substantially reducing the requirements for "transit priority projects," as specified in SB 375, and eliminating the analysis of the impacts of certain residential projects on global warming and the

growth-inducing impacts of those projects when the projects are consistent with the Sustainable Communities Strategy or Alternative Planning Strategy.

Executive Order S-13-08

Governor Schwarzenegger issued Executive Order S-13-08 on November 14, 2008. The Executive Order is intended to hasten California's response to the impacts of global climate change, particularly sea level rise. It directs state agencies to take specified actions to assess and plan for such impacts. It directs the Resource Agency, in cooperation with the California Department of Water Resources, CEC, California's coastal management agencies, and the Ocean Protection Council to request the National Academy of Sciences to prepare a Sea Level Rise Assessment Report by December 1, 2010. The Ocean Protection Council, California Department of Water Resources, and CEC, in cooperation with other state agencies are required to conduct a public workshop to gather information relevant to the Sea Level Rise Assessment Report. The Business, Transportation, and Housing Agency was ordered to assess the vulnerability of the state's transportation systems to sea level rise within 90 days of the order. The Office of Planning and Research and the Resources Agency are required to provide land use planning guidance related to sea level rise and other climate change impacts. The order also requires the other state agencies to develop adaptation strategies by June 9, 2009, to respond to the impacts of global climate change that are predicted to occur over the next 50 to 100 years.

Executive Order S-14-08

On November 17, 2008, Governor Schwarzenegger issued Executive Order S-14-08. This Executive Order focuses on the contribution of renewable energy sources to meet the electrical needs of California while reducing the GHG emissions from the electrical sector. The governor's order requires that all retail suppliers of electricity in California serve 33% of their load with renewable energy by 2020. Furthermore, the order directs state agencies to take appropriate actions to facilitate reaching this target. The Resources Agency, through collaboration with the CEC and Department of Fish and Game, is directed to lead this effort. Pursuant to a Memorandum of Understanding between the CEC and Department of Fish and Game creating the Renewable Energy Action Team, these agencies will create a "one-stop" process for permitting renewable energy power plants.

Pollution Constituents and Attainment Status

The significance of a pollutant concentration is determined by comparing it to state and/or federal ambient air quality standards, which represent the maximum allowable atmospheric concentrations of various pollutants which may occur and still protect public health and welfare, with a reasonable margin of safety. The EPA and CARB designate areas of California as having air quality better than (attainment) or worse than (nonattainment) the NAAQS/CAAQS.

The criteria pollutants of primary concern that are considered in this air quality assessment include O₃, CO, NO₂, PM₁₀, and PM_{2.5}. Although there are no ambient standards for VOCs or NO_x, they are important as precursors to O₃.

The criteria for nonattainment designation varies by pollutant. A system of monitoring stations which measure ambient air quality has been established to assist in the enforcement of the above-referenced standards. The following section describes the six criteria air pollutants and their attainment status according to both state and federal standards. *Table 5.10-3, South Coast Air Basin Attainment Classification*, shows the SCAB attainment designation/classification under the NAAQS and CAAQS.

Ozone

Ozone (O₃) is a secondary pollutant formed in the atmosphere by photochemical reactions of previously emitted pollutants, or precursors. These precursors are mainly NO_x and VOCs (also referred to as reactive organic compounds or gases [ROC or ROG]). The maximum effects of precursor emissions on O₃ concentrations usually occur several hours after they are emitted and many miles from the source. Ozone concentrations are highest during the warmer months and coincide with the seasons of maximum solar radiation. Ozone is a pungent, colorless gas typical of Southern California smog. Elevated ozone concentrations result in reduced lung function, particularly during vigorous physical activity. This health problem is particularly acute in sensitive receptors such as the sick, the elderly, and young children. Ozone levels peak during summer and early fall.

The entire SCAB is designated as a nonattainment area for both federal and state ozone standards. The EPA has classified the SCAB as a "severe" nonattainment area and has mandated that the SCAB achieve attainment by no later than 2021

**Table 5.10-3
South Coast Air Basin Attainment Classification**

Pollutant	Averaging Time	Designation/Classification
National		
Ozone (O ₃)	8 hour	Nonattainment/severe
Nitrogen dioxide (NO ₂)	Annual arithmetic mean	Attainment
Carbon monoxide (CO)	1 hour, 8 hour	Attainment
Sulfur dioxide (SO ₂)	24 hour, annual arithmetic mean	Unclassifiable
Respirable particulate matter (PM ₁₀)	24 hour	Nonattainment/serious
Fine particulate matter (PM _{2.5})	24 hour, annual arithmetic mean	Nonattainment
Lead (Pb)	Calendar quarter	Attainment
State ^b		
Ozone (O ₃)	1 hour, 8 hour	Nonattainment ¹
Nitrogen dioxide (NO ₂)	1 hour, Annual	Attainment ²
Carbon monoxide (CO)	1 hour, 8 hour	Attainment

Table 5.10-3 (Continued)

Pollutant	Averaging Time	Designation/Classification
Sulfur dioxide (SO ₂)	1 hour, 24 hour	Attainment
Respirable particulate matter (PM ₁₀)	24 hour, annual arithmetic mean	Nonattainment
Fine particulate matter (PM _{2.5})	Annual arithmetic mean	Nonattainment
Lead (Pb) ³	30 day average	Attainment
Sulfates (SO ₄)	24 hour	Attainment
Hydrogen sulfide (H ₂ S)	1 hour	Unclassified
Vinyl chloride ³	24 hour	Unclassified
Visibility-reducing particles	8 hour (10:00 a.m.–6:00 p.m.)	Unclassified

SOURCES: ^a EPA 2008, ^b CARB 2009.

¹ CARB has not issued area classification based on the new state 8-hour standard. The previous classification for the 1-hour O₃ standard was Extreme.

² CARB has not issued area classification based on the new state 1-hour and annual standards.

³ CARB has identified Pb, vinyl chloride, and Toxic Air Contaminants with no threshold level of exposure for adverse health effects determined.

Carbon Monoxide

Carbon monoxide (CO) is formed by the incomplete combustion of fossil fuels, almost entirely from automobiles. It is a colorless, odorless gas that can cause dizziness, fatigue, and impairments to central nervous system functions.

The SCAB is designated as an attainment area for federal CO standards. Although western portions of the SCAB are considered "unclassifiable" under state CO standards, Riverside County has been designated by CARB to be an attainment area.

Nitrogen Oxides

Nitrogen dioxide (NO₂), a reddish brown gas, and nitric oxide (NO), a colorless, odorless gas, are formed from fuel combustion under high temperature or pressure. These compounds are referred to as oxides of nitrogen, or NO_x. NO_x is a primary component of the photochemical smog reaction. It also contributes to other pollution problems, including a high concentration of fine particulate matter, poor visibility, and acid deposition. NO₂ decreases lung function and may reduce resistance to infection.

The entire SCAB has not exceeded either federal or state standards for nitrogen dioxide in the past 5 years based published monitoring data. It is designated as an attainment area under the federal and state standards. The state NO₂ standard was revised in 2008, but new designations have not been adopted.

Sulfur Dioxide

Sulfur dioxide (SO₂) is a colorless irritating gas formed primarily from incomplete combustion of fuels containing sulfur. Industrial facilities also contribute to gaseous SO₂ levels. SO₂ irritates the respiratory tract, can injure lung tissue when combined with fine particulate matter, and reduces visibility and the level of sunlight.

The entire SCAB is in attainment with both federal and state sulfur dioxide standards.

Lead

Lead (Pb) is found in old paints and coatings, plumbing and a variety of other materials. Once in the blood stream, lead can cause damage to the brain, nervous system, and other body systems. Children are highly susceptible to the effects of lead.

The entire SCAB is in attainment for the federal and state standards for lead.

Particulate Matter

Particulate matter is the term used for a mixture of solid particles and liquid droplets found in the air. Coarse or respirable particles (all particles less than or equal to 10 micrometers in diameter, or PM₁₀) come from a variety of sources, including windblown dust and grinding operations. Fine particles (less than 2.5 micrometers, or PM_{2.5}) often come from fuel combustion, power plants, and diesel buses and trucks. Fine particles can also be formed in the atmosphere through chemical reactions. PM₁₀ can accumulate in the respiratory system and aggravate health problems such as asthma. EPA's scientific review concluded that fine particles (PM_{2.5}), which penetrate deeply into the lungs, are more likely than coarse particles to contribute to adverse health effects.

The SCAB is designated as a "serious" nonattainment area for federal PM₁₀ standards and as a nonattainment area for state PM₁₀ standards. In regards to PM_{2.5} attainment status, the SCAB is designated as a nonattainment area by CARB and by the EPA.

Existing Local Air Quality

The SCAQMD maintains ambient air quality monitoring stations throughout the SCAB. The closest ambient air quality monitoring station to the project site is the Perris Valley monitoring station, which measures O₃ and PM₁₀. For CO, NO₂, PM_{2.5}, and SO₂, values from the monitoring station closest to the project site that measures that specific pollutant were used in this analysis, as presented in *Table 5.10-4, Ambient Air Quality Data*. The most recent background ambient air quality data from 2006 through 2008 are presented in *Table 5.10-4* below.

**Table 5.10-4
Ambient Air Quality Data**

Pollutant	Monitoring Station	2006	2007	2008*
O₃				
Maximum 1-hour concentration (ppm)	Perris Valley	0.17	0.139	0.142
# of days of state exceedances (>0.08 ppm)	Perris Valley	76	66	65
Maximum 8-hour average concentration (ppm)	Perris Valley	0.122	0.116	0.115
# of days of state exceedances (>0.070 ppm)	Perris Valley	54	88	94
# of days of fed. exceedances (>0.08 ppm for 2006-07, >0.075 ppm for 2008)	Perris Valley	53	37	77
CO				
Max. Concentration 1 hour (ppm)	Lake Elsinore	1	2	1.1**
# of days of state exceedances (>20 ppm)	Lake Elsinore	0	0	0**
Max. Concentration 8 hours (ppm)	Lake Elsinore	1.01	1.40	0.84
# of days of state exceedances (>9.0 ppm)	Lake Elsinore	0	0	0
NO₂				
Max. Concentration 1-hour (ppm)	Lake Elsinore	0.07	0.06	0.055
# of days of state exceedances (>0.25 ppm for 2006-07, >0.18 ppm for 2008)	Lake Elsinore	0	0	0
Annual arithmetic mean	Lake Elsinore	0.015	0.017	0.013
PM₁₀				
Max. concentration 24-hour (µg/m ³)	Perris Valley	125	120	87
# of state exceedances (>50 µg/m ³)	Perris Valley	19	32	8
# of fed. exceedances (>150 µg/m ³)	Perris Valley	0	0	0
Annual arithmetic mean (state standard = 20 µg/m ³)	Perris Valley	45.0	54.8	29.6
PM_{2.5}				
Max. concentration (µg/m ³)	Metro RC2	55.3	68.6	47.9
# of fed. exceedances (>35 µg/m ³)	Metro RC2	9	8	5
Annual arithmetic mean (15.0 µg/m ³)	Metro RC2	17.0	18.1	14.25
SO₂				
Maximum 1-hour concentration (ppm)	Metro RC1	0.01	0.02	0.011
# of days of state exceedances (>0.25 ppm)	Metro RC1	--	--	--
Maximum 24-hour average concentration (ppm)	Metro RC1	0.004	0.002	0.003
# of days of state exceedances (>0.04 ppm)	Metro RC1	--	--	--
# of days of fed. exceedances (>0.14 ppm)	Metro RC1	--	--	--
Annual arithmetic mean (0.30 ppm)	Metro RC1	0.0013	0.0017	0.001

SOURCE: South Coast Air Quality Management District (2009)

Metro RC1 = Metropolitan Riverside County 1 (5888 Mission Blvd., Rubidoux)

Metro RC2 = Metropolitan Riverside County 2 (7002 Magnolia Ave., Riverside)

* 2008 data were taken from CARB Air Quality Data Statistics (2009) <http://www.arb.ca.gov/adam/welcome.html>,

** Data were taken from EPA AirData (2009) <http://www.epa.gov/air/data/index.html>

As the table above demonstrates, air quality within the project region is in compliance with both CAAQS and NAAQS for CO, NO₂, and SO₂. Federal and state 1-hour and 8-hour O₃ standards were, however, exceeded during each of the last 3 years. The PM₁₀ level monitored at the air monitoring stations exceeded the state standard every year of the past 3 years; the federal standard was not exceeded once during this period. The federal standard, however, for PM_{2.5} was exceeded several times during each of the past 3 years.

5.10.3 Significance Criteria

In accordance with Appendix G of the CEQA Guidelines, the proposed project would have a significant impact to air quality if it:

- Conflicts with or obstruction of implementation of the applicable air quality plan.
- Violates any air quality standard or contributes substantially to an existing or projected air quality violation.
- Results in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under applicable federal or state ambient air quality standards (including releasing emissions that exceed quantitative thresholds for ozone precursors).
- Exposes sensitive receptors to substantial pollutant concentrations.
- Creates objectionable odors affecting a substantial number of people.

In addition, Appendix G of the CEQA Guidelines indicates that where available, the significance criteria established by the applicable air quality management or pollution control district may be relied upon to determine if the proposed project would have a significant impact on air quality. The SCAQMD CEQA Air Quality Handbook (SCAQMD 1993) sets forth quantitative emission significance thresholds below which a project would not have a significant impact on ambient air quality. Project-related air quality impacts estimated in this environmental analysis would be considered significant if any of the applicable significance thresholds presented in *Table 5.10-5, SCAQMD Air Quality Significance Thresholds*, are exceeded. To evaluate whether a project would result in a substantial contribution to an existing air quality violation of the NAAQS or CAAQS for ozone (see *Table 5.10-2*), which is a nonattainment pollutant, the SCAQMD considers a project to have a significant impact if the project's construction or operational emissions would exceed the VOC or NO_x thresholds shown in *Table 5.10-5*. These emission-based thresholds for ozone precursors are intended to serve as a surrogate for an "ozone significance threshold" (i.e., the potential for adverse ozone impacts to occur) because ozone itself is not emitted directly (see discussion of ozone and its sources above) and the effects of an individual project's emissions of ozone precursors (VOC and NO_x) on ozone levels in ambient air cannot be determined through air quality models or other quantitative methods.

**Table 5.10-5
SCAQMD Air Quality Significance Thresholds**

Pollutant	Construction	Operation
Criteria Pollutants Mass Daily Thresholds		
VOC	75 lbs/day	55 lbs/day
NO _x	100 lbs/day	55 lbs/day
CO	550 lbs/day	550 lbs/day
SO _x	150 lbs/day	150 lbs/day
PM ₁₀	150 lbs/day	150 lbs/day
PM _{2.5}	55 lbs/day	55 lbs/day
Lead ^a	3 lbs/day	3 lbs/day
Toxic Air Contaminants and Odor Thresholds		
(including carcinogens and non-carcinogens)	Maximum Incremental Cancer Risk \geq 10 in 1 million Hazard Index \geq 1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
Ambient Air Quality for Criteria Pollutants ^b		
	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards:	
NO ₂ 1-hour average	0.18 ppm (state)	
NO ₂ annual average	0.030 ppm (state)	
	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards:	
CO 1-hour average	20 ppm (state)	
CO 8-hour average	9.0 ppm (state/federal)	
PM ₁₀ 24-hour average	10.4 $\mu\text{g}/\text{m}^3$ (construction) ^c 2.5 $\mu\text{g}/\text{m}^3$ (operation)	
PM ₁₀ annual arithmetic mean	20.0 $\mu\text{g}/\text{m}^3$	
PM _{2.5} 24-hour average	10.4 $\mu\text{g}/\text{m}^3$ (construction) ^c 2.5 $\mu\text{g}/\text{m}^3$ (operation)	

SOURCE: SCAQMD, 1993

lbs/day = pounds per day

ppm = parts per million

$\mu\text{g}/\text{m}^3$ = microgram per cubic meter

\geq = greater than or equal to

^a The phasing-out of leaded gasoline started in 1976. As gasoline no longer contains lead, the proposed project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.

^b Ambient air quality thresholds for criteria pollutants based on SCAQMD Rule 1303, Table A-2 unless otherwise stated.

^c Ambient air quality threshold based on SCAQMD Rule 403.

The SCAQMD CEQA Air Quality Handbook also sets forth additional indicators of potential air quality impacts which should be used as screening criteria indicating the need for further analysis. The additional indicators are as follows:

- Project could interfere with the attainment of the federal or state ambient air quality standards by either violating or contributing to an existing or projected air quality violation.
- Project could result in population increases within the regional statistical area which would be in excess of that projected in the AQMP and in other than planned locations for the project's build-out year.
- Project would have the potential to create or be subjected to an objectionable odor over 10 dilutions to thresholds (D/T) that could impact sensitive receptors.
- Project would have hazardous materials on site and could result in an accidental release of air toxic emissions or acutely hazardous materials posing a threat to public health and safety.
- Project could emit an air toxic contaminant regulated by District rules or that is on a federal or state air toxic list.
- Project could involve burning of hazardous, medical, or municipal waste as waste-to-energy facility.
- Project could be occupied by sensitive receptors within a quarter mile of an existing facility that emits air toxics identified in District Rule 1401 or near CO hot spots.
- Project could emit carcinogenic or toxic air contaminants that individually or cumulatively exceed the maximum individual cancer risk of 10 in 1 million.

In addition to the above listed emission-based thresholds, the SCAQMD also recommends the evaluation of localized air quality impacts to sensitive receptors in the immediate vicinity of the project as a result of construction activities. For project sites greater than 5 acres, potential impacts on local sensitive receptors are determined using an air quality dispersion model. Those impacts are then compared to the localized significance thresholds (LSTs). The LSTs for NO₂ and CO represent the allowable increase in concentrations above background levels in the vicinity of a project that would not cause or contribute to an exceedance of the relevant ambient air quality standards. The threshold for PM₁₀ represents compliance with Rule 403 (Fugitive Dust). The significance threshold for PM_{2.5} is intended to ensure that construction emissions do not contribute substantially to existing exceedances of the PM_{2.5} ambient air quality standards. The LSTs for NO₂ and CO were derived from the ambient air quality data for the 3 previous years as shown in *Table 5.10-3*. For construction, the LSTs for PM₁₀ and PM_{2.5} are both 10.4 µg/m³ (SCAQMD 2008). The LSTs applicable to construction of the proposed project, along with the relevant ambient air quality standards, are shown in *Table 5.10-6, Localized Significance Thresholds*.

**Table 5.10-6
Localized Significance Thresholds**

Pollutant	Averaging Period	CAAQS/NAAQs		Peak Conc. in ppm	LST Criteria*	
		µg/m ³	ppm			
Nitrogen Dioxide (NO ₂)	1 hour	339	0.18	0.07	207	0.11
Carbon Monoxide (CO)	1 hour	23,000	20	2	20,598	18
Carbon Monoxide (CO)	8 hours	10,000	9.0	1.4	8,697	7.6
Respirable Particulate Matter (PM ₁₀)	24 hours	50	—	NA	10.4	—
Fine Particulate Matter (PM _{2.5})**	24 hours	35	—	NA	10.4	—

SOURCE: SCAQMD 2008.

* LST Criteria for NO₂ and CO are the differences between CAAQS and the Peak Concentration.

** California has not adopted a 24-hour AAQS for PM_{2.5}. The 24-hour PM_{2.5} AAQS shown is the national standard.

To date, no local or state air quality agency has adopted significance criteria for GHG emissions for residential and commercial projects. Nonetheless, this Draft EIR provides a discussion of the impacts of the project with respect to global climate change in the absence of an established significance threshold. To assess the impact of the proposed project with respect to global climate change, the potential contribution of the project to this cumulative impact is evaluated under the following criterion:

- The project could impede or conflict with the emissions reduction targets and strategies prescribed in or developed to implement AB 32.

This analysis conforms closely to the methodologies recommended in the California Air Pollution Control Officers Association *CEQA and Climate Change* discussion (CAPCOA 2008). Calculations of carbon dioxide, methane, and nitrous oxide associated with the proposed project are provided for full disclosure of the magnitude of potential impacts. While a project may result in emission of GHGs, the significance of the impacts of a single project on the global climate cannot be quantified. The full disclosure of project GHG emissions is intended to provide information, which may be useful for regional agencies in the context of eventually developing regional or statewide emission projections.

5.10.4 Impacts

This section evaluates the air quality impacts associated with 1,016 single-family detached residential dwelling units, a high school with 2,000 students, 45.9 acres of park use, 281,570 square feet of general commercial/retail use, and 309,320 square feet of office type uses (general office and government complex such as a post office). If the 2,000-student high school site is not chosen by the School District, an additional 322 single-family detached residential dwelling units will be developed alternatively in Phase III. For purposes of air quality impact analysis, based on

the Institute of Transportation Engineers traffic rates (please refer to Traffic section), the development of the 2,000-student high school (as opposed to the alternative development of 322 residential units) would be the reasonable worst-case project, and is therefore, evaluated herein.

Would the project conflict with or obstruction of implementation of the applicable air quality plan?

While striving to achieve the NAAQS for ozone and PM_{2.5} through a variety of air quality control measures, the 2007 AQMP also accommodates planned growth in the SCAB. Projects are considered to be consistent with, and would not conflict with or obstruct implementation of, the AQMP if the growth in socioeconomic factors (e.g., population, employment) are consistent with the underlying regional plans used to develop the AQMP. As indicated in Chapter 3 of the 2007 AQMP, demographic growth forecasts for various socioeconomic categories, developed by SCAG for their interim 2007 Regional Transportation Plan (RTP), were used in the modified 2004 RTP to estimate future emissions in the 2007 AQMP (SCAQMD 2007). Key growth forecasts for the City of San Jacinto from the modified 2004 RTP (SCAG 2004) include:

- Population: 31,256 (2010), 40,025 (2025), 42,738 (2030)
- Employment: 8,587 (2010), 10,834 (2025), 11,620 (2030).

According to the California Department of Finance, the population of the City of San Jacinto as of January 1, 2009, was 36,477 (Department of Finance 2009). The estimated population of the proposed project, assuming that 322 single-family residences are built instead of the potential high school is 4,054, which would be achieved by 2023 according to the prescribed phasing of the project. When added to the current population, the total population (40,531) would exceed the forecasted population of the City of San Jacinto in 2025 but not 2030. However, the population growth projections for the neighboring City of Hemet are substantially higher than the current population. The SCAG RTP 2010 and 2025 population projections for the City of Hemet are 105,100 and 154,392, respectively, whereas the current Department of Finance 2009 population is 74,361 (Department of Finance 2009), more than 30,000 persons less than the 2010 projection. (This shift between the two cities is reflected in the population forecasts for the 2008 RTP, which shows higher growth for the City of San Jacinto and lower growth for the City of Hemet [SCAG 2008]). Accordingly, the proposed project would be accommodated in the subregional population forecasts used to prepare the 2007 AQMP.

The most recent employment estimate (May 2009) from the California Employment Development Department indicates 10,000 employees in the City of San Jacinto (California Employment Development Department 2009). The proposed project would create an estimated 675 jobs at full buildout in 2033. Thus, the total employment (10,675) would be within the

SCAG modified 2004 RTP forecast for 2030. Accordingly, the proposed project's employment would be accommodated in the forecasts used to prepare the 2007 AQMP.

As described in *Section 3.0, Project Description*, implementation of the proposed project would require a General Plan Amendment. The current General Plan includes residential, open space, and commercial land use designations for the project site. *Table 5.1-1, General Plan and Specific Plan Comparison*, in *Section 5.1 Land, Use, Planning, and Zoning*, compares the General Plan and Specific Plan levels of development. As shown in this table, the Specific Plan would provide for up to 1,329 residential units (assuming the potential high school is not built) and 49 acres of commercial and mixed use development. These values are less than the 3,077 residential units and 54.4 acres of commercial development that would be allowed under the current General Plan land use designations for the site. As indicated in *Section 5.1*, the Specific Plan's potential inconsistency with the existing General Plan Land Use Map is considered less than significant from a Land Use Plan Map perspective. *Section 5.1* also provides a detailed analysis of the Specific Plan's consistency with General Plan goals and policies.

Based on the preceding assessment, the proposed project would not conflict with or obstruct implementation of the AQMP, and this impact would be less than significant.

Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under applicable federal or state ambient air quality standards (including releasing emissions that exceed quantitative thresholds for ozone precursors).

Construction Activity Impacts

Construction activities, including soil disturbance dust emissions and combustion pollutants from on-site construction equipment and from off-site trucks hauling dirt, cement or building materials would create a temporary addition of pollutants to the local airshed. These emissions are variable in time and space and differ considerably among various construction projects. Such emission levels can, therefore, only be approximately estimated with a corresponding uncertainty in precise ambient air quality impacts.

Emissions from the construction phase of the project were estimated through the use of emission factors from the URBEMIS 2007, Version 9.2.4, land use and air emissions model and the SCAQMD's CEQA Air Quality Handbook (SCAQMD 1993).

Construction phasing and other URBEMIS modeling assumptions are based on the project phasing in the project's Traffic Impact Study (refer to *Section 5.9, Transportation, Circulation, and Access*) and the project description provided in the Specific Plan. For purposes of this assessment, the following assumptions were made regarding the project phases and construction

subphases. Mass grading for the entire site would start in December 2011 and would be completed 7 months after. The grading plans anticipate that cut and fill will be balanced; no export or import of soil is planned. Phase I would be completed in December 2015. Fine grading for Phase II would start immediately after the completion of Phase I in January 2016. Phase II would be completed in December 2017. Phase III would commence immediately after the completion of Phase II in December 2017. Phase III would include the construction of single-family residences and a high school. In July 2018, six months into the development phase, construction of the high school would start. Phase III, including the high school, would be completed in December 2023. Construction of the remaining nonresidential land uses in Phase IV would start in January 2024 and would be completed by December 2033.

Additional details of the construction schedule are included in *Appendix I*.

The project would involve multiple construction subphases: 1) mass grading, 2) fine site grading of individual phases, 3) utilities/infrastructure (trenching), 4) building construction, 5) paving, and 6) architectural coating. Phases I, II, III, and IV would involve separate construction subphases with the exception of mass grading, which will cover the entire project site and occur during Phase I only. The proposed project would commence in 2011 and would be completed by 2033, for a total construction duration of 22 years. Within the analysis, it was generally assumed that heavy construction equipment would be operating at the site for approximately 8 hours per day, six days per week (26 days a month), during project construction.

URBEMIS 2007 model defaults were utilized where detailed project data is unknown at this time (refer to *Appendix I*). For example, the specific construction equipment and specifications may change over time and cannot be identified with certainty during the planning phase. To account for dust control measures in the calculations, it was assumed that the active sites would be watered at least three times daily, resulting in a approximately 61% reduction, to comply with Rule 403. *Table 5.10-7, Heavy Construction Equipment*, presents the heavy construction equipment assumptions for each construction stage, as applied in the model. The assumptions identified above and the number of equipment units presented in the table below represent a reasonably conservative estimate of construction activity.

**Table 5.10-7
Heavy Construction Equipment**

Construction Phase	Equipment	Number
Mass Grading	Grader	1
	Rubber Tired Dozers	1
	Tracker/Loader/Backhoe	1
	Water Trucks	1
Fine Grading	Graders	1

Table 5.10-7 (Continued)

Construction Phase	Equipment	Number
	Rubber Tired Dozers	1
	Tracker/Loader/Backhoe	1
	Water Trucks	1
Trenching	Excavators	2
	Tracker/Loader/Backhoe	1
	Other General Industrial Equipment	1
	Tractor/Loaders/Backhoe	1
Building Construction (Residential)	Cranes	1
	Generator Sets	1
	Forklifts	3
	Tractors/Loaders/Backhoe s	3
	Welders	1
Paving (Residential)	Paver	1
	Paving Equipment	2
	Rollers	2
Paving (Commercial/Mixed Use)	Cement and Mortar Mixers	4
	Pavers	1
	Paving Equipment	2
	Rollers	1
	Tractors/Loaders/Backhoes	1
Building Construction (Commercial/Mixed Use)	Cranes	1
	Generator Sets	1
	Forklifts	3
	Tractors/Loaders/Backhoe s	3
	Welders	1

SOURCE: URBEMIS 2007 V 9.2.4 Phase Assumptions (see *Appendix I*).

In addition to the heavy construction equipment identified above, construction material delivery truck and worker trips and architectural coatings were calculated for all relevant construction phases based on URBEMIS 2007 defaults. *Table 5.10-8, Estimated Maximum Daily Construction Emissions*, provides a summary of the emission estimates for the construction phase of the proposed project. Refer to *Appendix I* for detailed emission calculations.

Table 5.10-8
Estimated Maximum Daily Construction Emissions (lbs/day)

	VOC	NOx	CO	SOx	PM ₁₀	PM _{2.5}
Year 2011						
2011 Daily Maximum	2.86	23.49	12.93	0.00	36.58	8.48
Significance Criteria	75	100	550	150	150	55

Table 5.10-8 (Continued)

	VOC	NOx	CO	SOx	PM ₁₀	PM _{2.5}
Potentially Significant?	No	No	No	No	No	No
Year 2012						
2012 Daily Maximum	2.72	22.00	12.42	0.00	36.48	8.38
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2013						
2013 Daily Maximum	12.54	29.79	72.64	0.10	2.23	1.79
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2014						
2014 Daily Maximum	12.07	27.22	68.23	0.10	2.05	1.62
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2015						
2015 Daily Maximum	11.65	24.66	64.10	0.10	1.93	1.51
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2016						
2016 Daily Maximum	715.50	20.52	48.58	0.08	14.92	3.66
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2017						
2017 Daily Maximum	15.17	18.74	45.98	0.08	1.42	1.10
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2018						
2018 Daily Maximum	7.37	29.81	57.75	0.08	21.85	4.99
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2019						
2019 Daily Maximum	79.98	27.26	55.73	0.08	1.80	1.35
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	YES	No	No	No	No	No
Year 2020						
2020 Daily Maximum	4.61	13.62	34.06	0.06	0.99	0.75
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2021						
2021 Daily Maximum	4.38	12.67	28.00	0.06	0.97	0.73
Significance Criteria	75	100	550	150	150	55

Table 5.10-8 (Continued)

	VOC	NOx	CO	SOx	PM ₁₀	PM _{2.5}
Potentially Significant?	No	No	No	No	No	No
Year 2022						
2022 Daily Maximum	4.38	12.67	28.00	0.06	0.97	0.73
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2023						
2023 Daily Maximum	4.38	12.67	28.00	0.06	0.97	0.73
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2024						
2024 Daily Maximum	6.30	11.17	16.31	0.03	11.11	2.67
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2025						
2025 Daily Maximum	6.30	9.36	16.31	0.03	0.62	0.49
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2026						
2026 Daily Maximum	6.24	9.17	14.75	0.03	0.61	0.49
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2027						
2027 Daily Maximum	6.24	9.17	14.75	0.03	0.61	0.49
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2028						
2028 Daily Maximum	6.24	9.17	14.75	0.03	0.61	0.49
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2029						
2029 Daily Maximum	5.91	9.26	15.42	0.03	0.64	0.50
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2030						
2030 Daily Maximum	5.91	9.26	15.42	0.03	0.64	0.50
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2031						
2031 Daily Maximum	5.88	9.16	14.38	0.03	0.63	0.50
Significance Criteria	75	100	550	150	150	55

Table 5.10-8 (Continued)

	VOC	NOx	CO	SOx	PM ₁₀	PM _{2.5}
Potentially Significant?	No	No	No	No	No	No
Year 2032						
2032 Daily Maximum	5.88	9.16	14.38	0.03	0.63	0.50
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No
Year 2033						
2033 Daily Maximum	5.88	9.16	14.38	0.03	0.63	0.50
Significance Criteria	75	100	550	150	150	55
Potentially Significant?	No	No	No	No	No	No

SOURCE: URBEMIS 2007 Version 9.2.4 Appendix I for calculations.

NOTES: These estimates reflect control of fugitive dust required by Rule 403. Emissions in bold represent the maximum pollutant emissions that would occur over any day during the construction for the specific year and that would exceed the significance thresholds

Ground disturbances and equipment operation during construction activities would produce potentially significant short-term PM₁₀ and PM_{2.5} emissions. Implementation of the proposed project would generate construction-related air pollutant emissions from two general activity categories, entrained dust and vehicle emissions. Entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM₁₀ and PM_{2.5} emissions. Vehicle exhaust results from internal combustion engines used by construction equipment and vehicle which results in emissions of NO_x, VOCs, CO, PM₁₀, and PM_{2.5}.

As shown in the preceding table, maximum construction-generated PM₁₀ emissions of 36.58 pounds per day would be below the SCAQMD's quantitative significance threshold of 150 pounds per day. PM_{2.5} maximum daily emissions of 8.48 lbs/day would also be below the established threshold of 55 pounds per day. Although such fugitive dust would be short term and would only last during the duration of grading activity, such PM₁₀ and PM_{2.5} emissions could be considered problematic since they could cause a public nuisance or further exacerbate the existing PM₁₀ nonattainment situation in the SCAB. During construction, the project would be subject to SCAQMD Rule 403 (Fugitive Dust), which sets forth general and specific requirements for all construction sites (as well as other fugitive dust sources) in the SCAQMD, but does not require a permit for construction activities. The general requirement prohibits a person from causing or allowing emissions of fugitive dust from construction (or other fugitive dust source) such that the presence of such dust remains visible in the atmosphere beyond the property line of the emissions source. SCAQMD Rule 403 also prohibits a construction site from causing an incremental PM₁₀ concentration impact at the property line of more than 50 micrograms per cubic meter as determined through PM₁₀ high-volume sampling, but the concentration standard and associated PM₁₀ sampling do not apply if specific measures identified in the rule are implemented and appropriately documented. In order to reduce potential PM₁₀ impacts and fugitive dust emissions, mitigation is recommended (see *Section 5.10.5, Mitigation*

Measures, Mitigation Measure 5.10-a). Without mitigation, however, air quality impacts related to anticipated PM₁₀ emission levels during construction would be considered less than significant.

The application of architectural coatings (exterior/interior paint and other finishings) would produce VOC emissions that would exceed the SCAQMD's established quantitative significance threshold. As indicated above in *Table 5.10-8*, maximum construction-generated VOC emissions in 2019 would exceed the 75 lbs/day significance threshold. In order to reduce these potential impacts, mitigation is provided (see *Section 5.10.5, Mitigation Measures*, Mitigation Measure 5.10-c). Although mitigation is provided, these impacts would not be reduced to a level below significance; therefore, the construction phase of the project would result in significant, unmitigable air quality impacts due to anticipated VOC emission levels.

Operational Impacts

Operations of the project would produce VOC, NO_x, CO, SO_x, PM₁₀ and PM_{2.5} emissions from all combined proposed residential and nonresidential project land uses, including vehicular traffic, space heating and cooling, water heating, and consumer products.

Specifically, the proposed project would impact air quality through the vehicular traffic generated by project residents, visitors, customers and employees. According to the project's traffic analysis (see *Section 5.9, Transportation, Circulation, and Access*), total project-generated daily traffic is estimated to be 27,166 trip-ends per day. The URBEMIS 2007 model was utilized to estimate daily emissions from proposed vehicular sources (refer to *Appendix I*, which includes the data and assumptions used to generate emissions information summarized within this section for both the summer and winter seasons). URBEMIS 2007 default data, including temperature, trip characteristics, variable start information, emission factors, and trip distances, were conservatively used for the model inputs. Project-related traffic (identified above) was assumed to be comprised of a mixture of vehicles in accordance with the model outputs for traffic. This assumption includes light-duty autos and light-duty trucks (i.e., small trucks, SUVs, and vans) as well as medium- and heavy-duty vehicles that may be traveling within the project area to make deliveries or as business customers with larger vehicles. Emission factors representing the vehicle mix and emissions for the year 2017 and 2020 were used to estimate emissions. The year 2017 would be an intermediate year of development, and 2020 was assumed to be the year of full occupancy/operation. It is expected that project emissions would decrease on an annual basis from 2020 onward due to phase-out of higher polluting vehicles and implementation of more stringent emission standards.

In addition to estimating mobile source emissions, the URBEMIS 2007 model was also used to estimate emissions from the project area sources, which include natural gas appliances, natural-

gas burning fireplaces, gas-powered landscape maintenance equipment, architectural coatings, and consumer products. It should be noted that as specific operational characteristics of the proposed business park and retail uses are presently unknown, associated process activity emissions for any specific uses cannot be estimated at this time. However, if these emissions were substantial, they may require further CEQA analysis and would fall under the jurisdiction of the SCAQMD air permit process which would require the application of standard mitigation measures and permit conditions and/or emission offsets to ensure that any proposed stationary emissions remain less than significant. The present estimation of proposed operational emissions is based upon typical business park and commercial uses for this type of project, and the analysis is considered a reliable estimate of the project's likely emissions.

Table 5.10-9, Summary of Estimated Phase I + Phase II + Phase III Operational Air Pollutant Emissions, presents the maximum daily emissions associated with partial build-out of the proposed project during the year 2023. Details of the emission calculations are provided in *Appendix I*.

Table 5.10-9
Summary of Estimated Phase I + Phase II + Phase III Operational Air Pollutant Emissions
(lbs/day)

	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer 2023						
Area Source Emissions	66.72	18.88	59.98	0.00	0.16	0.16
Vehicular Emissions	66.40	63.97	632.97	1.27	207.40	40.36
Total	133.12	82.85	689.95	1.27	204.56	40.52
Significance Criteria	55	55	550	150	150	55
Significant?	YES	YES	YES	NO	YES	NO
Winter 2023						
Area Source Emissions	58.70	25.49	11.59	0.05	0.61	0.60
Vehicular Emissions	66.22	75.82	599.76	1.06	207.40	40.36
Total	124.92	102.31	611.35	1.11	208.01	40.96
Significance Criteria	55	55	550	150	150	55
Significant?	YES	YES	YES	NO	YES	NO

Source: URBEMIS 2007 V 9.2.4

The URBEMIS2007 year options for operational emissions modeling are in five-year increments, starting in 2020. As such, the year 2020 was utilized in the model to represent year 2023, which is a conservative approach.

As shown in *Table 5.10-9*, operation of Phase I, Phase II, and Phase III of the proposed project would exceed SCAQMD established thresholds for VOC, NO_x, CO, and PM₁₀.

The peak daily emissions predicted for the both the summer and winter season in the project's full buildout of operation (2033) are summarized in *Table 5.10-10, Summary of Estimated Full*

Buildout Operational Air Pollutant Emissions, along with a comparison with the SCAQMD's significance criteria. Details of the emission calculations are provided in *Appendix I*.

Table 5.10-10
Summary of Estimated Full Buildout Operational Air Pollutant Emissions (lbs/day)

	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer 2033						
Area Source Emissions	71.01	23.75	67.19	0.00	0.19	0.19
Vehicular Emissions	81.80	66.55	739.26	2.20	355.79	69.09
Total	152.81	90.30	806.45	2.20	355.98	69.28
Significance Criteria	55	55	550	150	150	55
Significant?	YES	YES	YES	NO	YES	YES
Winter 2033						
Area Source Emissions	62.50	30.27	15.61	0.05	0.62	0.61
Vehicular Emissions	86.63	79.94	703.95	1.81	355.79	69.09
Total	149.13	110.21	719.56	1.86	356.41	69.70
Significance Criteria	55	55	550	150	150	55
Significant?	YES	YES	YES	NO	YES	YES

SOURCE: URBEMIS 2007 V 9.2.4

The URBEMIS2007 year options for operational emissions modeling are in five-year increments, starting in 2020. As such, the year 2030 was utilized in the model to represent year 2033, which is a conservative approach.

As shown in the preceding table, the projected operational emissions from both area source and vehicular emissions are substantially above the SCAQMD significance criteria for all pollutants except SO_x. This would represent a significant impact with regard to operation of the project, and therefore, mitigation would be required (see *Section 5.10.5, Mitigation Measures*, Mitigation Measure 5.10-d). Even with implementation of Mitigation Measure 5.10-d, long-term operational air quality impacts would be considered significant and unmitigable.

Mobile source impacts occur basically on two scales of motion. Regionally, project-related travel will add to regional trip generation and increase the vehicle miles traveled (VMT) within the local airshed. Locally, project traffic will be added to the San Jacinto roadway system near the project area. If such traffic occurs during periods of poor atmospheric ventilation, is comprised of a large number of vehicles "cold-started" and operating at pollution-inefficient speeds, and is operating on roadways already crowded with non-project traffic, there is a potential for the formation of micro-scale air pollution CO "hot spots" in the area immediately around points of congested traffic. Because of continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, regional air pollution "hot spot" potential is steadily decreasing.

Projects involving adverse traffic impacts may result in the formation of CO hot spots. To verify that the project would not cause or contribute to a violation of the CO standard, a screening evaluation of the potential for CO hot spots was conducted. The project's Traffic Impact Study (refer to *Section 5.9, Transportation, Circulation, and Access*) evaluated whether or not there would be a decrease in the level of service at the intersections affected by the project. The potential for CO hot spots was evaluated based on the results of the traffic study. The Caltrans ITS Transportation Project-Level Carbon Monoxide Protocol (Caltrans 1998) was followed.

In accordance with the Protocol, CO hot spots are typically evaluated when: 1) the level of service (LOS) of an intersection or roadway decreases to a LOS E or worse; 2) signalization and/or channelization is added to an intersection; and 3) sensitive receptors such as residences, commercial developments, schools, and hospitals are located in the vicinity of the affected intersection or roadway segment.

The project traffic study evaluated 16 intersections in the project vicinity to evaluate project build-out/General Plan build-out LOS (2033). The traffic study assumed the implementation of a number of traffic improvements which reduce and/or maintain traffic levels of services at 11 out of the 16 identified study intersections at LOS D or above under the General Plan build-out scenario (refer to *Section 5.9, Transportation, Circulation, and Access* for specific data).

Although the remaining 5 intersections would operate at unacceptable level of service under the project build-out/General Plan build-out condition, the County of Riverside and Riverside County Transportation Commission (RCTC) have yet to define the future design configurations for these regional intersections under General Plan Buildout conditions. Although it may be reasonable to assume that RCTC will complete the design and implementation of these regional interchange improvements prior to project/General Plan build-out, which the applicant will fund in part through payment of appropriate mitigation fees [Western Riverside County Transportation Uniform Mitigation Fee (TUMF) and City of San Jacinto Traffic Fees], and that these regional improvements would operate at an LOS D or above; until such time as these improvements are planned and funded, CO hotspot impacts must be assumed to occur at these intersections. This would represent a significant impact with regard to cumulative operation of the project and therefore, mitigation would be required (see *Section 5.10.5, Mitigation Measures, Mitigation Measure 5.10-e*). Even with implementation of Mitigation Measure 5.10-e, long-term operational air quality impacts would be considered significant and unmitigable.

Health Impacts of Criteria Air Pollutants Emissions

The construction of the proposed project would result in VOC emissions that exceed the SCAQMD mass-emission thresholds; all other criteria pollutants were found to be less than significant. Specific VOCs may be toxic air contaminants; however, the specific VOCs

associated with project construction are unknown. Some VOC would be associated with motor vehicles and construction equipment, while others are associated with architectural coatings, the emissions of which would result in the exceedances of the SCAQMD threshold as shown in *Table 5.10-8*. Generally, the VOCs in architectural coatings are of relatively low toxicity. In addition, VOCs are a precursor to ozone, for which the SCAB is designated as nonattainment with respect to the NAAQS and CAAQS. Thus, existing ozone levels in the SCAB are at unhealthy levels during certain periods. The health effects associated with ozone, as discussed in *Section 5.10.2*, are generally associated with reduced lung function. The contribution of VOCs to regional ambient ozone concentrations is the result of complex photochemistry. The increase in ozone concentrations in the SCAB due to ozone precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive ozone concentrations also would depend on the time of year that the VOC emissions would occur because exceedances of the ozone AAQS tend to occur between April and October when solar radiation is highest. The effect of a single project's emissions of ozone precursor is speculative due to the lack of quantitative methods to assess this impact. Nonetheless, the VOC emissions associated with project construction could contribute to regional ozone concentrations and the associated health impacts.

According to the LST analysis, the construction of the proposed project could contribute substantially to exceedances of the NAAQS and CAAQS for PM₁₀ and PM_{2.5}. As described in *Section 5.10.2*, PM₁₀ and PM_{2.5} can accumulate in the respiratory system and aggravate health problems such as asthma. For the proposed project, the possibility of impacting nearby receptors depends on the presence of receptors at neighboring parcels and their proximity to active construction areas. Currently, the project site is surrounded by agricultural uses rather than existing neighborhoods. An existing residence is located approximately 500 feet southeast of the southeast corner of the project site. Furthermore, the primary source of PM₁₀ and PM_{2.5} emissions would be mass grading of the project site, followed by fine grading of the residential and commercial/mixed-use phases. These operations are relatively short-term and would be well controlled to comply with SCAQMD Rule 403 (e.g., no visible dust may leave the construction site). Accordingly, it is expected that any potential increases in health impacts associated with PM₁₀ and PM_{2.5} would be minor and temporary.

During operation of the proposed project, the emissions of VOC, NO_x, CO, PM₁₀, and PM_{2.5} would exceed the SCAQMD mass-emission thresholds. The VOC and NO_x emissions, as described above, would contribute to regional ozone concentrations and the associated health effects. In addition to ozone, NO_x contributes to potential exceedances of the NAAQS and CAAQS for NO₂. As shown in *Table 5.10-4*, the existing NO₂ concentrations are well below the NAAQS and CAAQS. Thus, it is not expected the project's NO_x emissions would result in exceedances of the NO₂ standards or contribute to the associated health effects. CO tends to be a localized impact associated with congested intersections. The associated CO "hot spots" were

discussed previously as a significant and unavoidable impact after mitigation. Thus, the project's CO emissions may contribute to the health effects associated with this pollutant, which include impairments to central nervous system functions. The PM₁₀ and PM_{2.5} emissions during operation would result primarily from fugitive road dust and, to a lesser extent, motor vehicle exhaust. Thus, the emissions would be dispersed throughout the project area and not confined to specific locations that would result in localized impacts to receptors. The PM₁₀ and PM_{2.5} would contribute to the regional exceedances of the NAAQS and CAAQS and the associated health effects for these pollutants.

Would the project violate any air quality standard or contributes substantially to an existing or projected air quality violation?

As indicated in the discussion of the thresholds of significance, the SCAQMD also recommends the evaluation of localized NO₂, CO, PM₁₀, and PM_{2.5} impacts as a result of construction activities to sensitive receptors in the immediate vicinity of the project site. The impacts were analyzed using methods consistent with those in the SCAQMD's *Final Localized Significance Threshold Methodology* (SCAQMD 2008). The Industrial Source Complex – Short Term, Version 3 (ISCST3) air quality dispersion model was used for the analysis. ISCST3 is approved for use by the SCAQMD for the purposes of performing an LST analysis. Details of the LST analysis are described in *Appendix I*.

Table 5.10-11, LST Modeling Results, shows the maximum NO₂, CO, PM₁₀, and PM_{2.5} concentrations associated with the proposed project at sensitive receptors in the vicinity of the project site. The values shown in these tables are the maximum results associated with the construction phase and activity producing the highest impacts.

**Table 5.10-11
LST Modeling Results**

Pollutant	Averaging Period	Modeling Results		LST Criteria		Exceeds Threshold?
		µg/m ³	ppm	µg/m ³	ppm	
Nitrogen Dioxide (NO ₂)	1 hour	12.2	0.01	244	0.13	NO
Carbon Monoxide (CO)	1 hour	115	0.10	17,165	15	NO
Carbon Monoxide (CO)	8 hours	48	0.04	6,065	5.3	NO
Respirable Particulate Matter (PM ₁₀)	24 hours	70.4	NA	10.4	NA	YES
Fine Particulate Matter (PM _{2.5})	24 hours	15.7	NA	10.4	NA	YES

As shown in *Table 5.10-11*, the project impacts on NO₂ and CO concentrations would not cause or contribute to exceedances of the CAAQS. The maximum 24-hour PM₁₀ and PM_{2.5} concentrations are anticipated to exceed the LST at the maximally impacted sensitive receptor in

the vicinity of the project site. Thus, construction of the proposed project would result in significant air quality impacts during the construction phase.

Would the project create objectionable odors affecting a substantial number of people?

Odors are a form of air pollution that is most obvious to the general public. Odors can present significant problems for both the source and surrounding community. Although offensive odors seldom cause physical harm, they can be annoying and cause concern. During the construction period, the potential odors associated with the proposed project would result from the application of asphalt, from diesel and gas fumes, and from the application of paint. Due to the temporary nature of construction and the relatively sparse population surrounding the project site (i.e., mostly agricultural fields), temporary odors associated with project construction would be considered less than significant.

During the operational phase of the proposed project, anticipated odors would be generated from cooking facilities and landscape/building maintenance. In general, these odors are not considered to create a significant nuisance and it is not likely that these odors would cause a significant impact to surrounding receptors. Nevertheless, if specific businesses within the proposed commercial component of the project are identified and specific permits are requested for uses that could cause a significant impact, the City of San Jacinto may further evaluate odor emissions from such uses to determine if additional environmental review is warranted at that time. In addition to these potential odor sources, the proposed project would incorporate a detention basin that will collect the runoff that emanates from offsite and onsite areas and will serve as a regional water quality facility for the project. Proper maintenance of the detention basin including periodic cleaning and maintaining aerobic conditions should alleviate the potential for the collected water to generate objectionable odors. At this time, however, long-term operational impacts associated with project-generated odors would be considered less than significant.

The project site is bordered by undeveloped agricultural land to the north (and future westward extension of Ramona Boulevard), Sanderson Avenue to the east, Odell Avenue to the west, and undeveloped agricultural land and a municipal wastewater treatment plant to the south (see *Figure 3.3, Project Location Map*). Land uses in the project area consist of agricultural operations including sod farms, dry farming, animal grazing pastures and dairies. Although several parcels within the project vicinity are in the process of being developed with residential subdivisions and/or commercial centers, project residents, employees, and/or customers may be subjected to noticeable odors associated with standard agricultural operations (fertilizers, pesticides, etc.) and/or odors associated with the wastewater treatment plant (WWTP) operations to the south. The odors associated with agriculture are often characterized as having a heavy, pungent nitrogen smell, while the odors associated with the WWTP can at times (particularly in hotter conditions) smell rotten and sulfuric in character. Odors would likely be most pronounced

on days when hot temperatures are experienced and/or gusts of winds occur. Given the proximity of the project to off-site odor sources, the project could result in odor nuisance complaints. As a part of the proposed project specific plan, the applicant has agreed to incorporate setbacks, fencing, and vegetative screening to protect and/or screen sensitive project receptors. Potential off-site odor impacts would, therefore, be considered less than significant.

Would the project expose sensitive receptors to substantial pollutant concentrations?

Toxic air contaminants (TACs) are defined as substances that may cause or contribute to an increase in deaths or in serious illness, or which may pose a present or potential hazard to human health. Although not anticipated at this time, if a business/commercial use is subsequently proposed that would involve potential TACs that require air permits, such permits would be subject to SCAQMD health risk assessment and public notification requirements. The SCAQMD permit requires the application of appropriate safeguards to ensure the public safety. If specific permits are requested for uses that could create TACs, the City of San Jacinto may further evaluate the project to determine if additional environmental review is warranted at that time. At this time, however, long-term operational impacts associated with toxic air contaminants are considered less than significant.

CARB has published the *Air Quality and Land Use Handbook: A Community Health Perspective* (CARB 2005), which identifies certain types of facilities or sources that may emit substantial quantities of TACs and therefore could conflict with sensitive land uses, such as "schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities." The *Air Quality and Land Use Handbook* is a guide for siting of new sensitive land uses, but it does not mandate specific separation distances to avoid potential health impacts. The enumerated facilities or sources include:

- High traffic freeways and roads
- Distribution centers
- Rail yards
- Ports
- Refineries
- Chrome plating facilities
- Dry cleaners
- Large gas dispensing facilities

CARB recommends that sensitive receptors not be located downwind or in proximity to such sources to avoid potential health hazards.

With the possible exception of dry cleaners, the proposed project would not include these types of TAC sources on site. (New dry cleaners in the SCAQMD are prohibited from using perchloroethylene, a TAC; thus, siting of a dry cleaner within the proposed project would not result in TAC emissions). Moreover, the proposed project's residential uses, parks, or the potential high school would not be located in proximity to any of these listed sources off site. Accordingly, the proposed project would not generate substantial TAC emissions that would conflict with surrounding sensitive receptors nor expose the project's inhabitants to TAC emissions from these sources.

Would the project could impede or conflict with the emissions reduction targets and strategies prescribed in or developed to implement AB 32?

Quantification of GHG Emissions

In January 2008, the California Air Pollution Control Officers Association (CAPCOA) published *CEQA and Climate Change: Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act*. This white paper is "intended as a resource, not a guidance document. It is not intended, and should not be interpreted, to dictate the manner in which an air district or lead agency chooses to address greenhouse gas emissions in the context of its review of projects under CEQA" (CAPCOA 2008). This document describes analytical methodologies for estimating direct (mobile and area sources) and indirect (electrical and water/wastewater utilities) GHG emissions associated with a development project. For the most part, the calculation methods described below are consistent with this guidance as well as the OPR technical advisory (OPR 2008).

Construction GHG Emissions

Emissions from Construction Equipment and Vehicles

Construction of the proposed project would result in GHG emissions, which are primarily associated with use of off-road construction equipment and vehicles and on-road construction and worker vehicles. The URBEMIS 2007 model was used to calculate the annual CO₂ emissions based on the construction scenario described in *Section 5.10.4*. The model results were adjusted to estimate methane (CH₄) and nitrous oxide (N₂O) emissions in addition to CO₂. The CO₂ emissions from off-road equipment and vehicles and delivery trucks, which are assumed by URBEMIS 2007 to be diesel fueled, were adjusted by a factor derived from the relative CO₂, CH₄, and N₂O for diesel fuel as reported in the California Climate Action Registry's (CCAR) *General Reporting Protocol* (CCAR 2009) for transportation fuels and the GWP for each GHG. The CO₂ emissions associated with construction worker trips were multiplied by a factor based on the assumption that CO₂ represents 95% of the CO₂E emissions associated with passenger vehicles (EPA 2005). The results were then converted from annual tons per year to metric tons

per year. As shown in *Table 5.10-12, Estimated Annual Construction Emissions of Greenhouse Gases*, the maximum GHG emissions during construction would range from 29 metric tons of emissions per year (expressed as CO₂ equivalent) to 1,771 metric tons per years, peaking in 2014 and 2015. Additional detail regarding these calculations is found in *Appendix I*.

Table 5.10-12
Estimated Annual Construction Emissions of Greenhouse Gases

Construction Year	Metric Tons CO ₂ E/Year
2011	29
2012	335
2013	1,644
2014	1,771
2015	1,771
2016	859
2017	1,406
2018	953
2019	1,707
2020	1,208
2021	1,204
2022	1,204
2023	1,201
2024	483
2025	647
2026	647
2027	647
2028	647
2029	693
2030	693
2031	693
2032	695
2033	693

Emissions from Release of Methane from Disturbed Soil During Construction

The project site included a former 20-acre cattle operation. If manure from this operation remained on the site and were buried where it could undergo anaerobic decomposition and generate methane (a GHG), methane could be released to the atmosphere during subsurface operations such as excavation. Surface or near surface deposits of manure would undergo aerobic decomposition, which does not generate methane. However, according to the Phase I environmental site assessment (*Appendix L*), the manure was removed from the site for use as fertilizer. Mitigation Measure 5.13-a in *Section 5.13, Hazards*, addresses the potential for

methane releases from the former cattle operation. Methane investigations would take place and in the event that methane is detected in this area, installation of mitigation mechanisms to collect methane would occur in accordance with the most recent Riverside County Department of Environmental Health's preliminary methane investigation protocols.

Operational GHG Emissions

Development of the proposed project would result in the generation of GHGs, primarily CO₂. The project includes features that would reduce the generation of GHG relative to a project developed without these features. The latter scenario is described as "business-as-usual" in the following discussion. The following sections discuss the calculations of GHG emissions resulting from the primary sources of GHGs associated with the operation of the proposed project at full buildout in 2033.

Emissions from Motor Vehicles

Annual CO₂ emissions from motor vehicle trips for full project buildout in 2033 were quantified using the URBEMIS 2007 model. As described above for construction worker vehicles, CH₄ and N₂O emissions were accounted for by multiplying the URBEMIS 2007 CO₂ emissions by a factor based on the assumption that CO₂ represents 95% of the CO₂E emissions associated with passenger vehicles (EPA 2005). The business-as-usual scenario assumes that the project would be developed with single-family residential only. The commercial and mixed-use development was assumed to be developed at a different, noncontiguous location. Accordingly, the adjustment of the trip generation for "internal capture" (also referred to as "double counting") would not occur. To generate the business-as-usual emissions associated with motor vehicles, the URBEMIS 2007 model was run without an adjustment for double counting. The estimated GHG emissions from motor vehicles under the business-as-usual scenario are shown in *Table 5.10-13, Estimated Business-As-Usual Operational Emissions of Greenhouse Gases*. The estimated GHG emissions from motor vehicles under the proposed project scenario are shown in *Table 5.10-14, Estimated Proposed Project Operational Emissions of Greenhouse Gases*. Additional details regarding these calculations are found in *Appendix I*.

Emissions from Natural Gas Combustion and Landscape Maintenance

Annual CO₂ emissions from natural gas combustion for space and water heating and gas fireplaces (new wood-burning devices are prohibited in the SCAB) were estimated using URBEMIS 2007. The CO₂ emissions were adjusted by a factor derived from the relative CO₂, CH₄, and N₂O for natural gas as reported in the CCAR's *General Reporting Protocol* (CCAR 2009) for stationary combustion fuels and their GWPs. Implementation of the Specific Plan's Energy Efficiency Guidelines would likely result in a reduction in the GHG emissions from natural gas usage. However, those emission reductions cannot be quantified because the

Guidelines do not provide sufficient detail to compute the reduction in natural gas usage. The estimated GHG emissions from natural gas combustion are shown in *Tables 5.10-13* and *5.10-14* under the business-as-usual and proposed project scenarios, respectively. Additional details regarding these calculations are found in *Appendix I*.

URBEMIS 2007 estimates the CO₂ emissions associated with use of landscape maintenance equipment. The contribution from this source category is very small; thus, it was assumed that the CO₂ emissions account for all of the GHG emissions.

Emissions from Electricity Use

Annual electricity use was based upon the SCAQMD's estimated generation rates for the land uses of the proposed project (SCAQMD 1993). Development of the proposed project at buildout would consume approximately 16,323,400 kilowatt-hours per year (see *Appendix I* for calculations). The generation of electricity through combustion of fossil fuels typically results in emissions of CO₂ and to a smaller extent CH₄ and N₂O. Annual electricity emissions were estimated using the reported CO₂ emissions per kilowatt-hour for Southern California Edison, which would provide electricity for the project (CCAR 2009).⁵ The contributions of CH₄ and N₂O for powerplants in California were obtained from the CCAR's *General Reporting Protocol*, which were adjusted for their GWPs. Implementation of the Specific Plan's Energy Efficiency Guidelines would likely result in a reduction in the GHG emissions associated with electrical use and generation. However, those emission reductions cannot be quantified because the Guidelines do not provide sufficient detail to compute the reduction in electrical usage. *Tables 5.10-13* and *5.10-14* show the estimated emissions of GHGs associated with electrical use under the business-as-usual and proposed project scenarios, respectively. Additional details regarding these calculations are found in *Appendix I*.

Emissions from Water Supply and Wastewater Treatment

Water supplied to the proposed project is a large user of electricity. Accordingly, the supply, conveyance, treatment, and distribution of water would indirectly result in GHG emissions. The GHG emissions associated with water supply were based on the estimated water usage by the proposed project (RBF 2005), the estimated electrical usage associated with supply, conveyance, treatment, and distribution of water (CEC 2006), and the same methodology as that for the project's electrical use. The business-as-usual scenario assumes that all of the project water would be provided as potable water from EMWD, while the proposed project would use reclaimed water from EMWD's San Jacinto wastewater treatment plant. *Tables 5.10-13* and

⁵ The GHG emission factor for Southern California Edison will be substantially lower in 2033 due to compliance with SB 107, SB 1368, and measures adopted under AB 32 to increase the renewable energy portfolio for utilities.

5.10-14 show the estimated GHG emissions associated with water provided to the project users under the business-as-usual and proposed project scenarios, respectively.

Similarly, wastewater treatment requires electricity and would generate its own GHG emissions. According to the *Local Governmental Operations Protocol* (CARB et al. 2008), CH₄ emissions are associated with unburned digester gas (which contains CH₄) and N₂O is associated with some types of wastewater treatment and discharged to aquatic environments. The electrical usage associated with wastewater treatment was estimated using the same references as those for water supply (RBF 2005 and CEC 2006). The population-based estimates from the *Local Governmental Operations Protocol* were used to estimate CH₄ and N₂O emissions from wastewater treatment processes.

Tables 5.10-13 and 5.10-14 show the estimated emissions of GHGs associated with water supply and wastewater treatment under the business-as-usual and proposed project scenarios, respectively. Additional details regarding these calculations are found in *Appendix I*.

Table 5.10-13 lists the operational emission sources of GHGs for the proposed project. The project is estimated to result in GHG emissions of approximately 49,650 metric tons CO₂E. While the proposed project would result in emissions of GHGs, no guidance exists to indicate what level of GHG emissions would be considered substantial enough to result in a significant adverse impact on global climate. However, it is generally the case that an individual project is of insufficient magnitude by itself to influence climate change or result in a substantial contribution to the global GHG inventory. Thus, GHG impacts are recognized as exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective (CAPCOA 2008). Accordingly, further discussion of the project's GHG emissions and their impact on global climate are addressed in *Section 6*.

Table 5.10-13
Estimated Business-As-Usual Operational Emissions of Greenhouse Gases

Source	Metric Tons CO ₂ E/Year	Percent of Total
Motor Vehicles	43,181	75.13
Area Sources		
Natural Gas Combustion	4,814	8.29
Hearth Combustion	19	0.03
Electrical Generation	4,694	8.17
Water Supply	4,340	7.55
Wastewater Treatment	429	0.75
Year 2033 Totals	57,478	100.00%

Table 5.10-14
Estimated Proposed Project Operational Emissions of Greenhouse Gases

Source	Metric Tons CO ₂ E/Year	Percent of Total
Motor Vehicles	36,488	73.49
Area Sources		
Natural Gas Combustion	4,814	9.70
Hearth Combustion	19	0.04
Electrical Generation	4,694	9.46
Water Supply	3,056	6.16
Recycled Water Supply	147	0.30
Wastewater Treatment	429	0.86
Year 2033 Totals	49,648	100.00%

Comparing the results in *Tables 5.10-3* and *5.10-14*, the proposed project would result in a GHG emission reduction of 7,830 metric tons CO₂E per year (14%) relative to the business-as-usual scenario. Implementation of the Specific Plan's Energy Efficiency Guidelines would provide additional benefits in terms of reduced natural gas and electrical usage and the associated GHG emissions. However, those emission reductions cannot be quantified because the Guidelines do not provide sufficient detail to compute the reduction in energy usage.

5.10.5 Mitigation Measures

Construction

5.10-a Consistent with SCAQMD Rule 403, it is required that fugitive dust generated by grading and construction activities be kept to a minimum with a goal of retaining dust on the site, by following the dust control measures listed below:

- a) During clearing, grading, earth moving, excavation, or transportation of cut or fill materials, water trucks or sprinkler systems shall be used to prevent dust from leaving the site and to create a crust after each day's activities cease.
- b) During construction, water truck or sprinkler systems shall be used to keep all areas of vehicle movement damp enough to prevent dust from leaving the site. At a minimum, this would include wetting down such areas later in the morning and after work is completed for the day and whenever winds exceed 15 miles per hour.
- c) Soil stockpiled for more than two days shall be covered, kept moist, or treated with soil binders to prevent dust generation.
- d) Reduce speeds on unpaved roads to less than 15 miles per hour.

- e) Halt all grading and excavation operations when wind speeds exceed 25 miles per hour.
- f) Dirt and debris spilled onto paved surfaces at the project site and on the adjacent roadways shall be swept, vacuumed, and/ or washed at the end of each workday.
- g) Should minor import/export of soil materials be required, all trucks hauling dirt, sand, soil, or other loose material to and from the construction site shall be tarped and maintain a minimum two feet of freeboard.
- h) At a minimum, at each vehicle egress from the project site to a paved public road, install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long (or as otherwise directed by SCAQMD).
- i) Review and comply with any additional requirements of SCAQMD Rule 403.

5.10-b The following shall be adhered to during project grading and construction to reduce VOC, NOx, and CO from construction equipment:

- a) Heavy-duty diesel-powered construction equipment manufactured after 1996 (with federally mandated “clean” diesel engines) shall be utilized.
- b) The engine size of construction equipment shall be the minimum size.
- c) The number of construction equipment operating simultaneously shall be minimized through efficient management practices to ensure that the smallest number is operating at any on time.
- d) Construction equipment shall be maintained in tune per the manufacturer’s specifications.
- e) Catalytic converters shall be installed on gasoline-powered equipment.
- f) Diesel catalytic converters shall be installed.
- g) Diesel powered equipment shall be utilized in lieu of electric equipment.

5.10-c The project developer shall use zero-Volatile Organic Compounds (VOC)-content architectural coatings during project construction/ application of paints and other architectural coatings to reduce ozone precursors. If zero-VOC paint cannot be utilized, developer shall avoid application of architectural coatings during the peak smog season: July, August, and September. Developer shall procure architectural coatings from a supplier in compliance with the requirements of SCAQMD’s Rule 1113 (Architectural Coatings).

The following websites provide information/ lists of manufacturers related to zero-VOC content coatings:

<http://www.aqmd.gov/prdas/brochures/paintguide.html>

<http://www.delta-institute.org/publications/paints.pdf>

<http://www.cleanaircounts.org/factsheets/FS%20PDF/Low%20VOC%20Paint.pdf>

Operational

Substantial reductions in emissions from proposed land use-related sources would be difficult, as these sources would mainly be low-emitting, natural gas-fired units. Nonetheless, optimization of energy conservation techniques in proposed building design would minimize emissions resulting from lighting and space heating demands and help reduce the overall project significant impact of ROG and NO_x emissions. To help mitigate for operational impacts, the following shall occur.

5.10-d The applicant shall incorporate the following energy conservation measures into project building plans:

- Install low NO_x water heaters and space heaters
- Install heat transfer modules in furnaces
- Use light-colored, water-based paint and light-colored roofing materials to the satisfaction of the City.
- Install solar panels for water heating systems and other facilities and/or use water heaters that heat water only on demand.
- Use passive solar cooling/heating.
- Maximize the use of natural lighting.
- Install energy efficient appliances and lighting.
- Use landscaping to shade buildings and parking lots.

In addition to the above area source mitigations/required site design features, the following mitigation measures are required in order to minimize long-term vehicular impacts:

- Provide preferential parking spaces for employee carpools and vanpools in the commercial and business park land uses.
- Install covered bus stops to encourage use of mass transportation.
- Coordinate with the local transit agency to provide public transit to the project site.

- Develop, in coordination with the City of San Jacinto, public outreach programs to promote alternative methods of transportation.

5.10-e To mitigate the traffic conditions that could result in potential CO "hotspots", the project applicant shall participate in funding off-site traffic improvements which are needed to serve cumulative future traffic conditions through payment of appropriate traffic mitigation fees (Riverside County TUMF and City of San Jacinto DIF fees). TUMF provides a key funding source for General Plan improvements within the project area, including the required improvements related to the Ramona Expressway. (It should be noted that this mitigation measure also appears as Mitigation Measure 5.9-e.)

5.10.6 Residual Impacts/ Level of Significance after Mitigation

Implementation of the above mitigation measures would help reduce construction impacts; however, significant unmitigable impacts would remain. Operational impacts related to on-site and off-site odors and toxic air contaminants would remain or be mitigated to less-than-significant levels with mitigation. The combined contribution of the project's area source and vehicular emissions would remain significant and unmitigable despite identified mitigation measures.

5.11 NOISE

5.11.1 Introduction and Methodology

The following evaluation and discussion of potential noise impacts associated with the Villages of San Jacinto project implementation has been prepared as a complete technical noise study by Dudek.

This technical noise section evaluates noise effects of the project, including potential impacts from current and future ambient noise levels upon proposed land uses as well as noise generation potential from proposed land uses and activities within the Villages of San Jacinto Specific Plan area. Noise generation sources from future implementation of the Specific Plan include traffic, school-related playground and sports activity, and mechanical equipment and exterior activities from commercial uses.

Terminology Used to Describe Sound

Please refer to *Appendix J* for detailed definitions of technical terms used in the description and evaluation of noise. The following descriptions are provided for direct reference in reviewing the information in this section.

Sound is defined as any pressure variation detected by the human ear. The preferred unit for measuring sound is the decibel (dB). The dB expresses the logarithmic ratio of the amount of energy radiating from a source in the form of an acoustic wave. Zero dB corresponds approximately to the threshold of healthy human hearing, while 120 to 140 dB correspond to an average person's threshold of pain.

The human ear is not equally responsive to all frequencies of the audible sound spectrum. An electronic filter is normally used when taking noise measurements that de-emphasizes certain frequencies in a manner that mimics the human ear's response to sound; this method is referred to as A-weighting. Sound levels expressed under the A-weighted system are sometimes designated dB(A). All sound levels discussed in this report are A-weighted.

The equivalent continuous sound level (L_{eq}) is a single noise level that, if held constant during the specified time period, would represent the same total energy as a fluctuating noise. L_{eq} values are commonly expressed for periods of 1 hour, but longer or shorter time periods may be specified.

The noise descriptor Community Noise Equivalent Level (CNEL) is typically used when describing community noise. CNEL averages the varying sound levels occurring over a 24-hour period and gives a 10 dB penalty to noises occurring between the hours of 10:00 p.m. and

7:00 a.m. and a 5 dB penalty for noise between the hours of 7:00 p.m. to 10:00 p.m., to take into account noise sensitivity during nighttime and evening hours, respectively.

Noise Criteria

General Plan Noise Element Criteria:

The City of San Jacinto has an adopted Noise Element in the City's General Plan (City of San Jacinto 2006). The City's Noise Element identifies the limits for "normally acceptable" exterior ambient noise levels at residential land uses to be 65 dB CNEL. Also, the Noise Element stipulates that the interior noise level not exceed 45 dB CNEL within the habitable rooms of residences.

The Noise Element also identifies 65 dB CNEL and 45 dB CNEL as the maximum exterior and interior noise levels (respectively) for commercial land uses such as office, retail, reception, and restaurant. For parks and recreation facilities, the exterior limit is also proposed to be 65 dB CNEL, but the interior noise level is proposed to be 50 dB CNEL for this land use category.

Noise sources that are not directly related to transportation, such as construction, manufacturing or business operations; agricultural operations; and property maintenance activities should be controlled to minimize exposure to excessive noise levels and reduce the impacts of noise-producing land uses and activities on noise-sensitive land uses.

Municipal Code Noise Ordinance Criteria:

The City's noise ordinance (City of San Jacinto 2008) provides controls for excessive and annoying noise from stationary sources, such as air conditioning and refrigeration units, industrial development, and commercial activities. The ordinance also regulates construction activities within the City. Certain noise sources are prohibited, and the ordinance establishes an enforcement process.

Relative to construction noise, it is unlawful to create and emit noise from equipment operated during construction activities, whether on private property or within the public right of way between the hours of 7:00 p.m. of one day and 7:00 a.m. of the following day, and at any time on Sunday. Such equipment includes, but is not limited to, trucks, road graders, tractors, power saws, power drills, and generators.

5.11.2 Existing Conditions

Project Setting

The project site is generally located south of Ramona Expressway and adjacent to the west side of North Sanderson Avenue in the City of San Jacinto. The primary existing noise source at the site is vehicular traffic along North Sanderson Avenue. The current average daily traffic (ADT) volumes on North Sanderson Avenue are provided in *Table 5.11-1, Existing Average Daily Traffic Volumes near Villages of San Jacinto*.

**Table 5.11-1
Existing Average Daily Traffic Volumes near Villages of San Jacinto**

Location	Existing ADT
Sanderson Avenue (north of Cottonwood Avenue)	13,700
Sanderson Avenue (south of Ramona Boulevard)	12,800

SOURCE: Urban Crossroads 2009

Ambient Noise Monitoring

Since the primary existing noise source affecting the property is North Sanderson Avenue, an original noise measurement was conducted within the subject property boundaries and adjacent to Sanderson Avenue to determine the existing noise level associated with Sanderson Avenue, and for use in calibrating the noise model. The measurement was made using a calibrated Larson-Davis Laboratories Model 700 (S.N. 2132) integrating sound level meter equipped with a Type 2551 one-half-inch pre-polarized condenser microphone with pre-amplifier. When equipped with this microphone, the sound level meter meets the current American National Standards Institute standard for a Type 1 precision sound level meter. The sound level meter was positioned at a height of approximately 5 feet above the ground.

The original noise measurement location is depicted as Site 1 on *Figure 5.11-1, Noise Measurement Locations*. Site 1 is approximately 62 feet from the center line of Sanderson Avenue and is at approximately the same elevation as the roadway surface. The measured average noise level was 67 dB at Site 1. *Table 5.11-2, Measured Average Sound Level at Villages of San Jacinto Site*, shows the measured noise level and concurrent traffic volumes.

To more fully characterize existing noise conditions on the project site, a series of additional noise measurements were conducted. These supplemental noise measurement locations are depicted as Sites A to D on *Figure 5.11-1, Noise Measurement Locations*. The measured average noise levels at Sites A to D are illustrated in *Table 5.11-2, Measured Average Sound Level at Villages of San Jacinto Site*. Traffic counts were not conducted during the supplemental noise

measurements, because the locations were at distances beyond the area influenced by existing traffic noise sources.

Table 5.11-2
Measured Average Sound Level at Villages of San Jacinto Site

Site	Description	Date/Time	L _{eq} ¹	Cars	MT ²	HT ³
1	Approximately 62 feet to center line of Sanderson Avenue	11/01/2004 1:00 p.m. to 1:20 p.m.	67 dB	208	10	13
A	At property boundary for parcel to the northwest	7/8/2009 11:30 a.m. to 11:45 a.m.	39 dB	N.A.	N.A.	N.A.
B	At future Cawston Avenue alignment, just north of future De Anza Drive	7/8/2009 11:55 a.m. to 12:10 p.m.	41 dB	N.A.	N.A.	N.A.
C	Along Ramona Avenue, at northwest corner of property	7/8/2009 12:20 p.m. to 12:35 p.m.	40 dB	N.A.	N.A.	N.A.
D	Along future Bridge Street, at midpoint of southeast property line	7/8/2009 12:55 p.m. to 1:10 p.m.	42 dB	N.A.	N.A.	N.A.

NOTES: Temperature 70°, clear sky, 2 miles-per-hour northerly wind (November 1, 2004)
Temperature 88°, clear sky, 5 miles-per-hour southwest wind (July 8, 2009)

¹ Equivalent continuous sound level (time-average sound level)

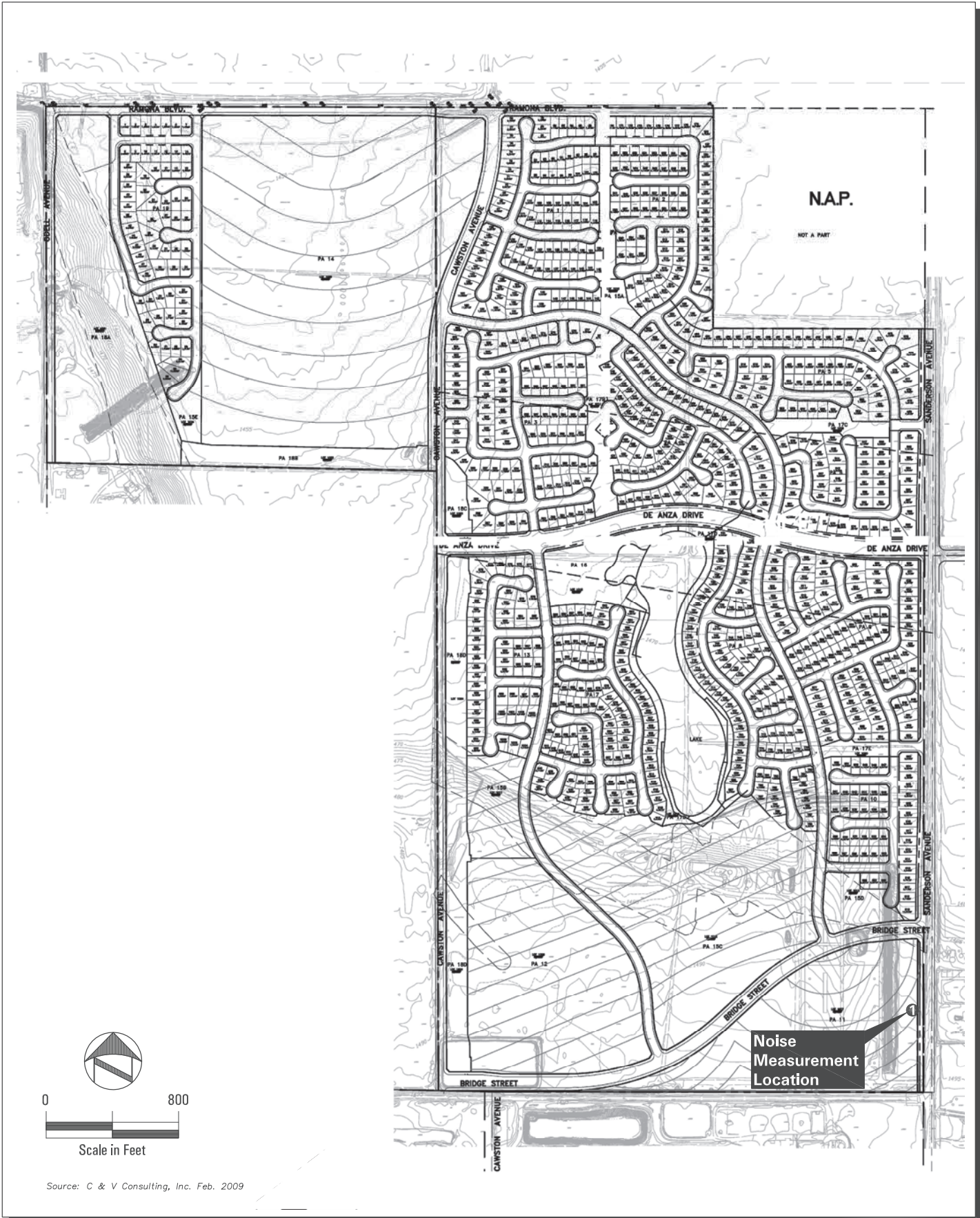
² Medium trucks

³ Heavy trucks

Traffic Noise Modeling – Current Conditions

The existing CNEL along North Sanderson Avenue was determined based on the ambient noise measurement and using the current daily traffic volume for the road (with normalized medium and heavy truck percentages as provided by the County of Riverside) in the Federal Highway Administration's Highway Traffic Noise Prediction Model (FHWA 2004). For the current condition, the modeled CNEL at Site 1 is 72 dB (Dudek and Associates 2006). It should be noted that this noise level is in terms of the CNEL and not the L_{eq} as shown in *Table 5.11-2*.

The existing 65 dB CNEL contour from Sanderson Avenue within the Villages at San Jacinto project site is approximately 180 feet from the current center line of North Sanderson Avenue. The noise measurements conducted at interior portions of the site verify that most of the property is not directly affected by this traffic noise source, with average measured noise levels in the 39 – 42 dB range.



Villages of San Jacinto EIR
Noise Measurement Location

FIGURE 5.11-1

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5.11.3 Significance Criteria

Based on the criteria identified in Appendix G of the CEQA Guidelines, the proposed project would have a significant impact on noise if it would result in:

1. The exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies
2. The exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels
3. A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project.

A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project.

5.11.4 Impacts

The project site would be exposed to existing and future traffic noise. Noise associated with the project would most likely result from project-generated traffic noise and noise from on-site commercial, school, and construction activities.

Would the project result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Traffic Noise Exposure

While only North Sanderson Avenue currently exists along the eastern boundary of the project site, the project site would eventually be served by three principal roadways oriented north/south and three principal roadways oriented east/west. The north/south roadways include Odell Avenue (western boundary), Cawston Avenue (central), and Sanderson Avenue (eastern boundary). The east/west roads include Ramona Boulevard South (northern boundary), De Anza Drive (central) and Bridge Street (southern boundary). *Figure 5.11-2, Noise Contours Associated with Future Roadways*, provides a graphical depiction of future roadway locations. These roadways are either on the boundary of the site or traverse the interior of the site and provide vehicular access from the site to the regional roadway network.

The public roadway system that abuts or traverses the site would carry project and regional traffic. To determine the future noise impact, City of San Jacinto General Plan build-out with project traffic volumes were used in the noise modeling (Urban Crossroads 2009). North Sanderson Avenue would have a future community build-out traffic volume ranging from 43,000

to 44,600 ADT adjacent to the project site. The other roadways would have future ADT volumes ranging up to 16,900 ADT along Ramona Boulevard; 6,800 ADT along Odell Avenue; 9,000 ADT along Cawston Avenue; 9,000 ADT along De Anza Drive and 7,000 ADT along Bridge Street. It should be noted that two new freeways, State Route 79 (SR 79) and Mid County Parkway (MCP) are currently in various planning stages. Detailed design drawings are not available for these two freeways. However, it is anticipated that the alignments of both freeways would be located at least 1,000 or more feet from the project site. As the area develops, there would be buildings and other structures that would most likely provide shielding between the freeways and the project site that would substantially attenuate the traffic noise. However, for the purposes of this study, it is conservatively assumed that the potential noise contribution from future SR 79 and MCP freeways would be 60 dB CNEL at the north and east boundaries of the project site.

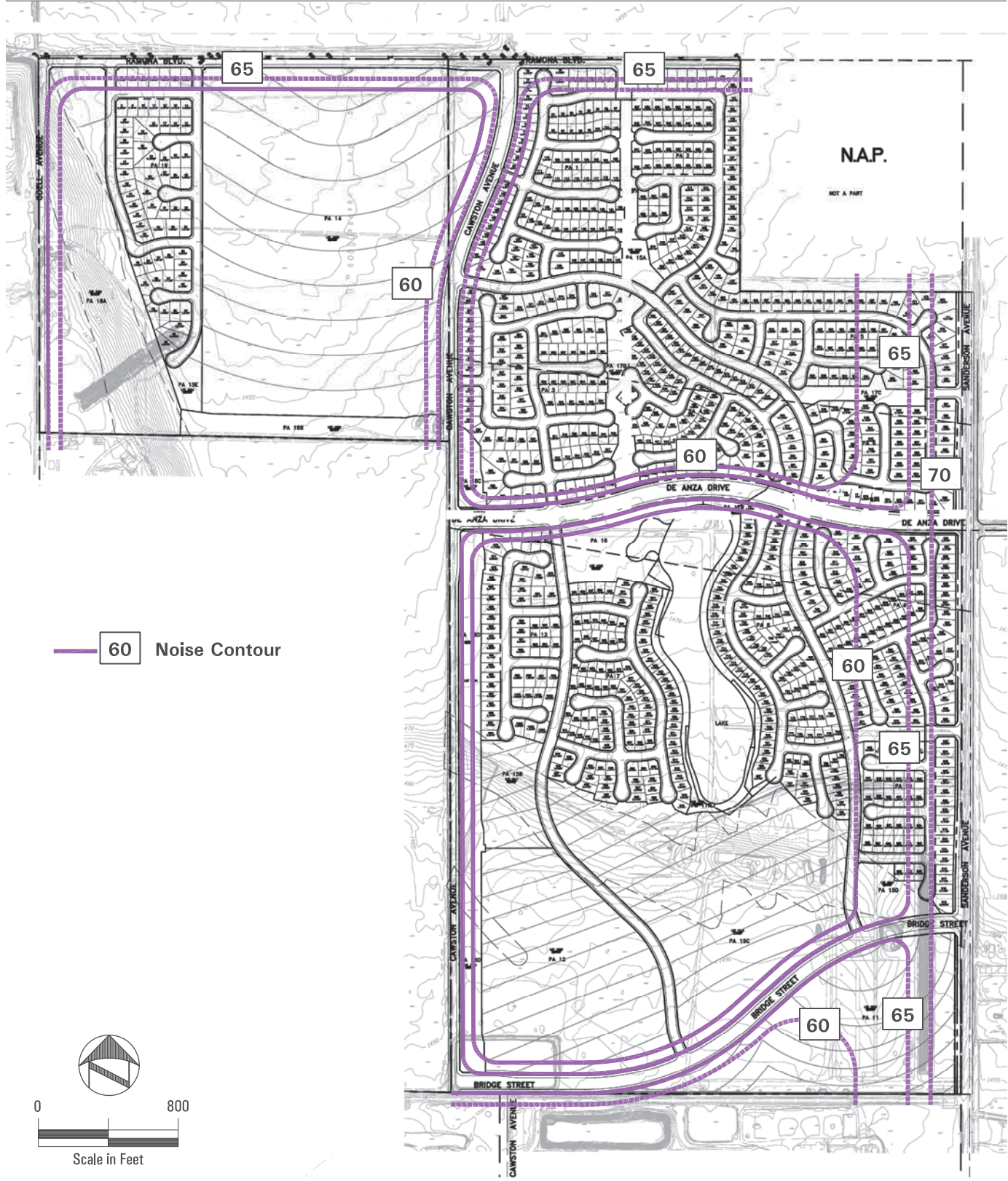
Utilizing the planned roadway sections and identified future traffic volumes (from project development and full build-out of the General Plan), traffic noise along each of the project-related roadways was modeled. The results of the noise modeling for roadway traffic noise are presented in *Table 5.11-3, Modeled Future Sound Level along Project Roadways*.

**Table 5.11-3
Modeled Future Sound Level along Project Roadways**

Roadway	Distances from Center Line to CNEL Contours (feet)		
	70 db	65 db	60 db
Sanderson Avenue	220	350	650
Ramona Boulevard South	R/W ¹	110	170
Odell Avenue	R/W ¹	50	120
Cawston Avenue			
North of Bridge Street	R/W ¹	70	130
South of Bridge Street	R/W ¹	R/W ¹	90
De Anza Drive	R/W ¹	70	130
Bridge Street	R/W ¹	55	120

¹ Within right-of-way

Appendix J contains a summary of the noise roadway configuration, vehicle mix, and speed limit information used for each noise model run.



Villages of San Jacinto EIR
Noise Contours Associated with Future Roadways

FIGURE 5.11-2

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Residential, commercial, school, and park land uses are proposed to be located immediately adjacent to the right-of-way for each of these roadway facilities with the exception of Odell Avenue. Therefore, with the exception of Odell Avenue, the potential exists for significant noise impacts to occur from exterior noise exposure above 65 dB CNEL for residential, commercial, school, and park uses located adjacent to the planned right-of-way for these roadway facilities. In order to reduce these potential impacts, mitigation is provided (see *Section 5.11.5, Mitigation Measures*, Mitigation Measures 5.11-a and 5.11-f).

Off-Site Noise Impacts Associated With Project Traffic

Traffic-related noise impacts, especially in the context of a Specific Plan analysis, must primarily evaluate the future noise environment resulting from long-range community build-out. This is performed by using the traffic volumes anticipated from General Plan build-out, as assessed by the assigned project transportation engineer. Future project traffic volumes within the development are largely derived from the project itself, and are addressed by noise barriers and other measures (see *Section 5.11.5, Mitigation Measures*, and *Figure 5.11-3, Noise Barrier Heights and Locations*). With distribution of project-generated trips onto the area roadway network off site, the noise attributable to project-contributed trips versus regional traffic becomes largely indistinguishable. An extensive level of cumulative development is anticipated to occur within the San Jacinto region. Sanderson Avenue is the primary off-site roadway that exists today and is that which will bear the majority of immediate project-related traffic. The noise level associated with the existing traffic volumes on Sanderson Avenue is compared against the noise levels resulting from existing-plus-project traffic (Phase I), and from traffic volumes for build-out of the General Plan (including the project volumes for Phases I–IV). The results are presented in *Table 5.11-4, Project Contribution to Off-Site Traffic Noise (Off-Site Traffic Noise Level Increase)*.

Table 5.11-4
Project Contribution to Off-Site Traffic Noise (Off-Site Traffic Noise Level Increase)

Street (Segment)	Existing ADT	Existing + Project (Year 2015) ADT	CNEL Increase ¹ (dB)	Existing + General Plan Build-Out ADT	Existing + Project + General Plan Build-Out ADT	CNEL Increase ² (dB)
Sanderson Avenue						
South of Ramona Blvd.	12,800	16,100	1	41,600	43,000	5
Cottonwood Ave. to future SR 79	13,700	15,900	1	53,200	61,600	7

¹ Existing vs. existing-plus-project noise increase

² Existing vs. General Plan build-out, including project

In the near term (year 2015), the project would increase the existing ambient noise level by 1 dB CNEL. This noise level increase is less than significant.

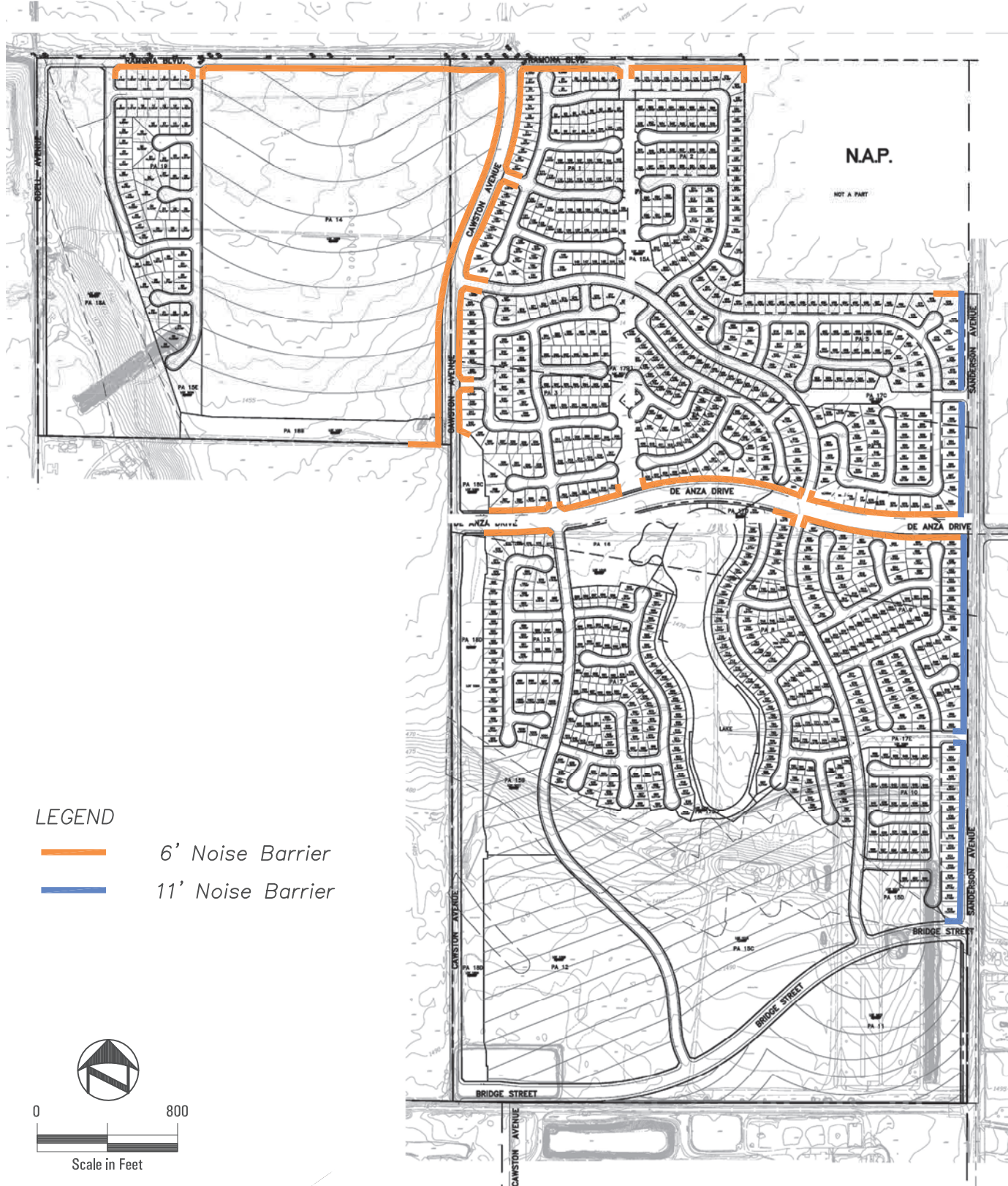
In the long term, the increase in traffic noise from the proposed project and cumulative developments (i.e., General Plan build-out) is calculated to range from 5 to 7 dB, which is a noticeable change in the noise environment. The noise increase associated with traffic from cumulative developments is therefore considered potentially significant. However, the project's contribution to cumulatively significant traffic noise impacts is less than significant (1 dB or less increase, which by itself is not a discernible increase). Consequently, mitigation is not required for the project's contribution to off-site noise impacts associated with General Plan build-out traffic volumes but is required for the cumulatively significant impact (see *Section 5.11.5, Mitigation Measures*, Mitigation Measure 5.11-a).

Noise Generation Associated with Commercial Land Uses

A retail commercial area and mixed-use area are proposed at the southern end of the subject property. The land uses at the commercial site could include neighborhood retail uses, such as a grocery store, drug store, cleaners, restaurants, fast food, and specialty stores. The mixed-use area could provide a broad range of land uses, including a library, police and fire facilities, dental and medical offices, real estate offices, banks, coffee shop, printers, and postal/shipping outlets. The commercial and mixed-use areas are generally buffered from on-site residential land uses by a park. The proposed commercial areas are located immediately adjacent to an existing off-site municipal wastewater treatment plant that would not be a noise-sensitive receptor. Residential land uses exist east of the proposed commercial area, across Sanderson Avenue; these residential land uses are currently protected by a sound-wall along Sanderson Avenue.

Sources of commercial and mixed-use noise typically include activities at loading/unloading docks and parking lots, heating/ventilation and air conditioning equipment (HVAC), maintenance activities, and additional truck traffic along adjacent roads.

Noise levels associated with the commercial and mixed-use activities would vary depending on the number of delivery trucks, loading dock areas, and customer traffic generated by the commercial site. Similarly, HVAC equipment noise would vary depending on the number and types of equipment selected. Typical roof-top HVAC packaged units generate noise levels of approximately 70 dB at 10 feet from the source. In order to avoid any potential impacts related to commercial use noise, mitigation is provided (see *Section 5.11.5, Mitigation Measures*, Mitigation Measure 5.11-b).



Villages of San Jacinto EIR
Noise Barrier Heights & Locations

FIGURE 5.11-3

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School-Related Noise Concerns

A high school is designated as part of the proposed specific plan project. Schools are both noise-sensitive and noise generating. The high school would be located at the southwest corner of Ramona Boulevard and Cawston Avenue. The future exterior traffic noise at the high school site would exceed a CNEL of 65 dB as previously depicted in *Figure 5.11-2*. Traffic-related noise exposure levels within exterior use areas for the school (i.e., sports fields, athletic courts, etc.) could exceed acceptable noise standards, thereby resulting in potentially significant noise impacts. In order to avoid potentially significant noise impacts, mitigation is provided (see *Section 5.11.5, Mitigation Measures*, Mitigation Measures 5.11-c).

Future school buildings that are located in areas exposed to a noise level greater than 60 dB CNEL could exceed an interior noise level of 45 dB CNEL. In order to avoid these potentially significant impacts, mitigation is provided (see *Section 5.11.5, Mitigation Measures*, Mitigation Measure 5.11-c, 5.11-d and 5.11-e).

The proposed high school would be located adjacent to future residences along the west side of the site and also east of Cawston Avenue. Noise associated with schools generally consists of traffic noise and outdoor activities. Noise created by and emanating during the conduct of any authorized school activity upon school grounds is specifically excluded from the restrictions of the City's noise ordinance. However, some residents living adjacent to the high school may find the noise emanating from the school to be annoying. Therefore, a mitigation measure is provided to notify neighbors of the potential for this nuisance noise (see *Section 5.11.5, Mitigation Measures*, Mitigation Measure 5.11- d).

Short-Term Noise Impacts (Construction-Related Noise)

The applicant has indicated that build-out of the project would occur in four major phases, with construction beginning in 2011. Please refer to *Section 3.0, Project Description*, for a detailed discussion of the project phasing schedule and construction phasing exhibit. Because the development of the project would occur in distinct phases, portions of the development will be completed and occupied during the construction of subsequent project phases; the occupied project phases have the potential to be impacted by noise from ongoing construction activities.

Development activities for each phase of project construction would involve a four-step sequence: (1) demolition, (2) site preparation, (3) building construction, and (4) paving. Mass grading for the entire site would occur during Phase I. Specific project construction details and equipment fleet specifications are not available at this time; however, for the air quality analysis, a worst-case equipment fleet was derived. Please refer to *Table 5.11-3, Heavy Construction Equipment*, for an estimate of assumed heavy construction equipment requirements for project construction. The equipment information in *Table 5.11-3* is meant to represent a reasonable

worst-case estimate of construction equipment employment. As a summary, the derived equipment list for construction includes the following types of construction equipment:

- Tractor/Backhoe
- Bulldozer
- Loader
- Scraper
- Grader
- Off-Highway Water Truck
- Roller
- Crane
- Forklift
- Trencher
- Paving Equipment
- Paver
- Surfacing Equipment.

As demonstrated by the summary above, construction equipment anticipated for project development includes only standard equipment that would be employed for any routine construction project of this scale; construction equipment with substantially higher noise generation characteristics (such as pile drivers, rock drills, or blasting equipment) would not be needed for development of the proposed project. Based upon the standard construction equipment anticipated to be employed for project development, short-term noise associated with the grading and construction could result in maximum noise levels of up to approximately 90 dB measured 50 feet from the noise source (FTA 2006). Noise attenuation for a point source occurs over distance at a rate of approximately 6 dB every time the distance from the source is doubled. Therefore, at a distance of 900 feet from the source of the noise, noise attenuation would reduce typical construction-related maximum noise levels from 90 dB to 65 dB.

With respect to the proposed construction phasing schedule and the above discussion, constructed and occupied residences that are located within 900 feet of an area under construction could potentially experience nuisance noise (i.e., average noise levels above 65 dB).

The generation of noise from construction activities during sensitive time periods upon completed and occupied components of the project is considered a significant nuisance. As such, project-generated construction noise would pose a potentially significant effect on noise-sensitive

receptors if construction hour limitations are not imposed. However, with adherence to a restricted construction schedule dictating project-related site preparation and construction activities, consistent with the City's noise ordinance, significant construction-related noise impacts could be avoided. In order to avoid potentially significant construction-related noise impacts, mitigation is provided (see *Section 5.11.5, Mitigation Measures*, Mitigation Measure 5.11-f).

Would the project result in the exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?

Ground-borne vibration is typically attenuated over short distances. The heavier pieces of construction equipment that may be used at this site include a dozer, scraper, excavator and loaded materials trucks. These types of construction equipment would be located approximately 50 or more feet from the closest existing residences. Based on the anticipated construction equipment, the demolition of existing structures and excavation of the site could generate perceptible vibrations at some residences in the project vicinity. However, the vibration levels would be below levels that would significantly disturb the residences. Additionally, construction hours will be limited by the City's noise ordinance. Therefore, the potential vibration impacts to these residential structures are less than significant. Once construction is completed, the project would not generate groundborne vibration or groundborne noise levels.

Would the project result in substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

A permanent increase in ambient noise levels will occur in the project vicinity with implementation of the project due to added traffic volumes. However, as discussed above, the project's contribution to significant traffic noise impacts is less than significant (a 1 dB or less increase, which by itself is not a discernible increase).

5.11.5 Mitigation Measures

5.11-a Residential lots located adjacent to Sanderson Avenue shall include an 11-foot-high noise barrier; residential lots adjacent to Ramona Boulevard and Cawston Avenue (between Ramona Boulevard and De Anza Drive) shall require noise barriers a minimum of 6 feet in height. The project noise barriers must have a surface density of at least 4 pounds per square foot, and have no openings or cracks. The noise barriers may be constructed of acrylic glass, any masonry material, earthen berm, or a combination of these materials.

5.11-b Individual acoustical analyses shall be prepared as part of site plan/development plan review for future commercial development applications submitted to the City, to ensure noise levels would comply with the City's General Plan noise standards (maximum exterior noise levels of 65 dB CNEL; maximum interior noise levels of 45 dB CNEL) and not result in significant noise impacts at adjacent park land or residences. The

applicant for each commercial development proposal shall be required to commission or fund the required acoustical analysis. Although the future building-specific noise study will determine exact specifications, it is likely that interior noise mitigation would consist of sound-rated windows and mechanical ventilation systems for the commercial buildings. All required noise control measures identified in the acoustical analysis shall be made conditions of ultimate development approval to ensure that all measures are implemented to fully mitigate anticipated noise impacts.

5.11-c For the high school site, the specified noise barriers along Ramona Boulevard and Cawston Avenue shall be installed to protect exterior use areas of the site from traffic-related noise.

5.11-d A Notice-to-Property Owner shall be recorded on a separate buyer information sheet with the final map providing notice to potential future property owners in the vicinity of the school site (i.e., Planning Areas 1, 3, and 19) stating that they could be exposed to noise associated with outdoor activities at the high school. The disclosure will function to make potential buyers aware of the anticipated noise levels/impacts, such that particularly noise-sensitive individuals would have the opportunity to decide against purchase of a home which is subject to these periodic noise conditions.

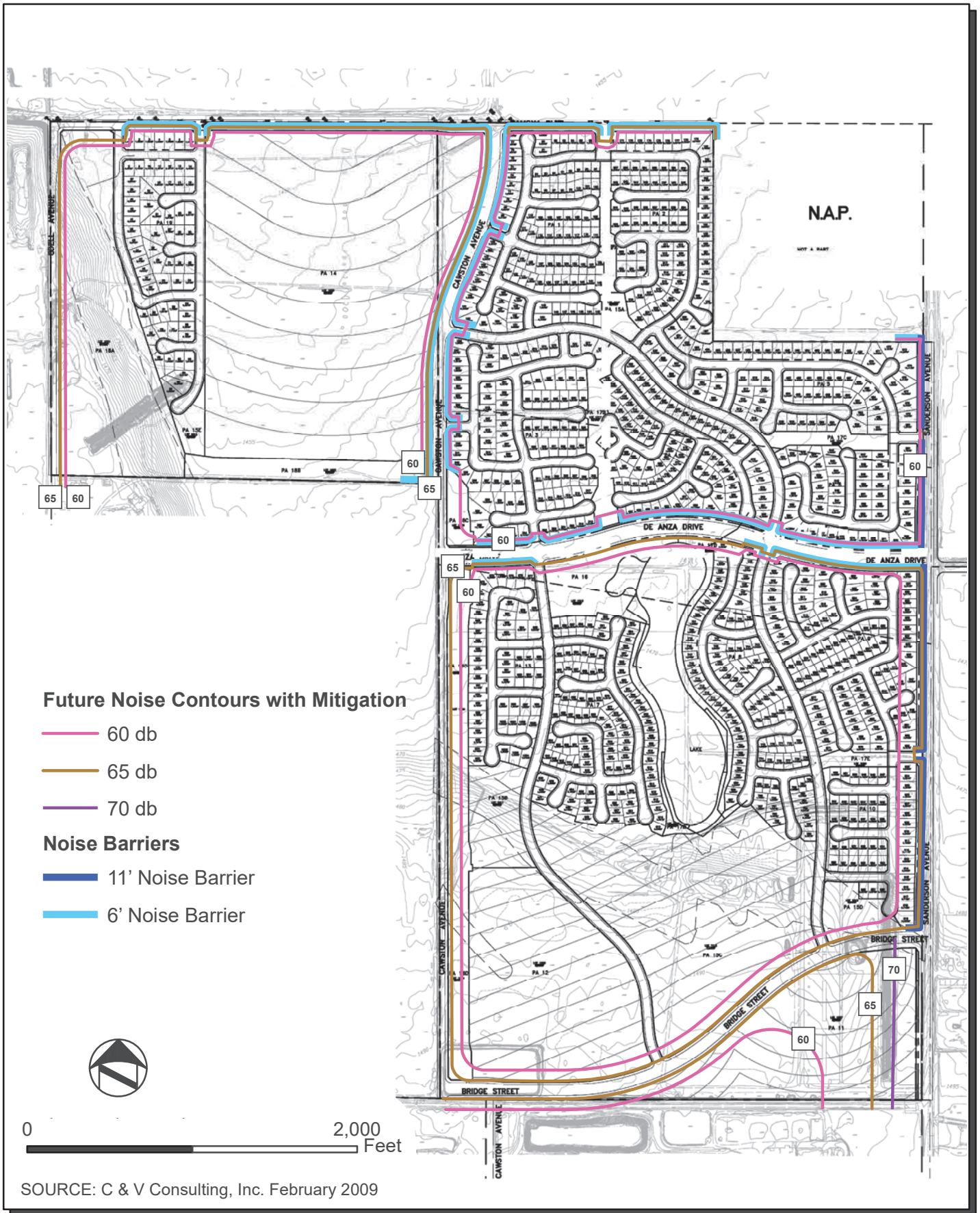
5.11-e For residences proposed within the future 60 dB CNEL contour, an interior acoustical analysis shall be required prior to the issuance of building permits to ensure that the interior CNEL would not exceed 45 dB. Interior noise mitigation would most likely consist of sound-rated windows and mechanical ventilation systems for the homes. All required noise control measures identified in the acoustical analysis shall be made conditions of building permit issuance.

5.11-f Future project-related site preparation and construction activities shall be conducted in accordance with the City's noise ordinance. No construction shall occur Sundays or federal holidays (e.g., Thanksgiving, July 4th, Labor Day, etc.). Construction operation and equipment maintenance shall be limited to the hours of 7:00 a.m. to 7:00 p.m. Non-noise-generating construction activities, such as interior painting, are not subject to these restrictions.

5.11.6 Residual Impacts/Level of Significance after Mitigation

With implementation of the mitigation measures included in *Section 5.11.5* to ensure that adequate noise control elements are designed and implemented for the proposed development, potential noise impacts would be less than significant and residual impacts would not occur.

Figure 5.11-4 Noise Contours with Mitigation illustrates the residual noise levels under future traffic conditions, and with installation of prescribed noise walls.



Villages of San Jacinto EIR
Future Noise Contours with Mitigation

FIGURE 5.11-4

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5.12 PUBLIC SERVICES AND UTILITIES

5.12.1 Introduction and Methodology

This section discusses public services and utilities necessary to serve the proposed Villages of San Jacinto and includes an analysis of potential project impacts to fire and police protection services, parks and recreation and, schools facilities; the availability of wastewater treatment facilities, stormwater drainage facilities, domestic water supply resources, and solid waste disposal and recycling.

Potential project impacts associated with increased demand on public services including fire, police, park and recreational facilities were evaluated per correspondence with City fire, police and regional park personnel and per the criteria identified in the City of San Jacinto Development Impact Fee Justification Study, prepared by David Taussig & Associates, Inc., approved by the City in October 2005. Impacts to school facilities associated from increased demand resulting from project development were analyzed pursuant to correspondence with school district personnel and utilizing the San Jacinto Unified School District Residential Development School Fee Justification Study and the Commercial/Industrial Development School Fee Justification Study prepared by David Taussig & Associates, Inc., February 13, 2004.

The availability of adequate domestic water supply and infrastructure necessary to serve the proposed Villages of San Jacinto area was determined by a Water Supply Assessment Report prepared by the Eastern Municipal Water District, December 15, 2004, and a letter dated May 11, 2009, confirming their previous conclusions. Both documents are included in *Appendix K*. In addition, the availability of water, wastewater and drainage facilities and related infrastructure required to serve the project were evaluated through a November 2005 Study prepared by RBF, the May 2006 Preliminary Drainage Study for TTM 34081 prepared by RBF, the August 2006 Phase 1, and 2 Drainage Study prepared by RBF, the December 12, 2006, Preliminary Drainage Analysis for Phases 1, 1A, 1B and 1C prepared by RBF and the February 23, 2009, *Preliminary Hydrology and Hydraulics Study for the Villages of San Jacinto* by JLC Engineering & Consulting Inc. (all included as *Appendix G*). Impacts associated with solid waste production and disposal and availability of recycling facilities were analyzed by means of evaluating the availability of sufficient landfill capacity to receive solid waste generated by the proposed development, including construction-generated wastes and projected, long-term residential and commercial-generated wastes, and the ability of the proposed development and City programs to meet State mandated recycling requirements.

Unlike other environmental impact sections in this EIR, this section is organized by category instead of a discussion of all existing conditions followed by significance criteria followed by impacts and finally a discussion of mitigation. *Section 5.12* is instead organized by topic. Each

topic includes a description of existing conditions, followed by significance criteria associated with the specific topic, impact assessment, mitigation measures and finally a discussion of the impact after mitigation. For example, Fire Protection – first a discussion of existing conditions is provided, then the relevant significance criteria related to fire protection, followed by an impact discussion on fire protection and finally a discussion of relevant mitigation measures. After a complete discussion of fire protection, police protection is provided and so on. It was determined that this method of analysis presentation would be easier to follow. Existing and Proposed Public Facilities and Service Systems are depicted on *Figures 5.12-1, Existing Public Services and Facilities, 5.12-2, Master Sewer Plan and 5.12-3, Master Water Plan.*

5.12.2 Fire Protection

Existing Conditions

Fire protection services are provided throughout the City of San Jacinto under contract by the Riverside County Fire Department (RCOFD)/California Department of Forestry and Fire Protection (CAL Fire). The Departments provide services for fire suppression, emergency medical services, hazardous materials team response, fire prevention, public education, disaster preparedness and operations planning and staff training. The Riverside County Fire Department is staffed with 1,300 career employees (contracted from California Department of Fire), 300 Riverside County personnel, and 750 volunteer fire fighters, and currently serves approximately 1.6 million residents within an approximate area of 7,000 square miles. This service area consists of the unincorporated County areas, fourteen contract cities, one Community Service District, and one correctional corporation. The City of San Jacinto is served by Fire Station No. 25 located at 132 South San Jacinto Avenue, approximately 3 miles from the project area. Seven city firefighters (3 on duty each day) and approximately 5 volunteer personnel are assigned to Station No. 25 which maintains one city and one state fire engine. The City is also served by Station No. 78, located at 2450 West Cottonwood Avenue, approximately one mile south from the project site. This Station is currently staffed with 8 city firefighters and maintains one city fire engine for daily operations. (Personal Communication, Fire Captain Tim Chavez, June 25, 2009).

Significance Criteria

1. *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire protection?*

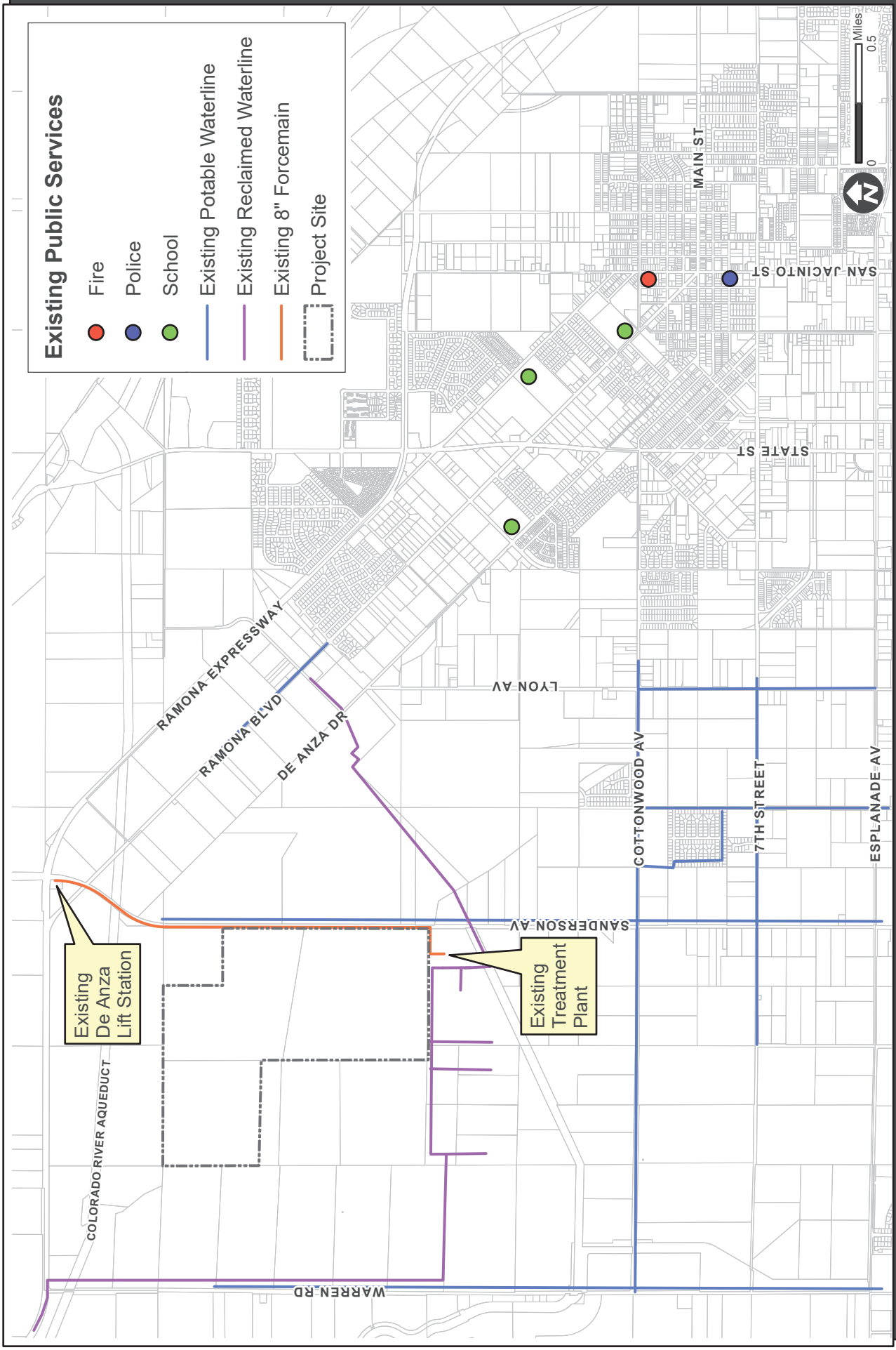
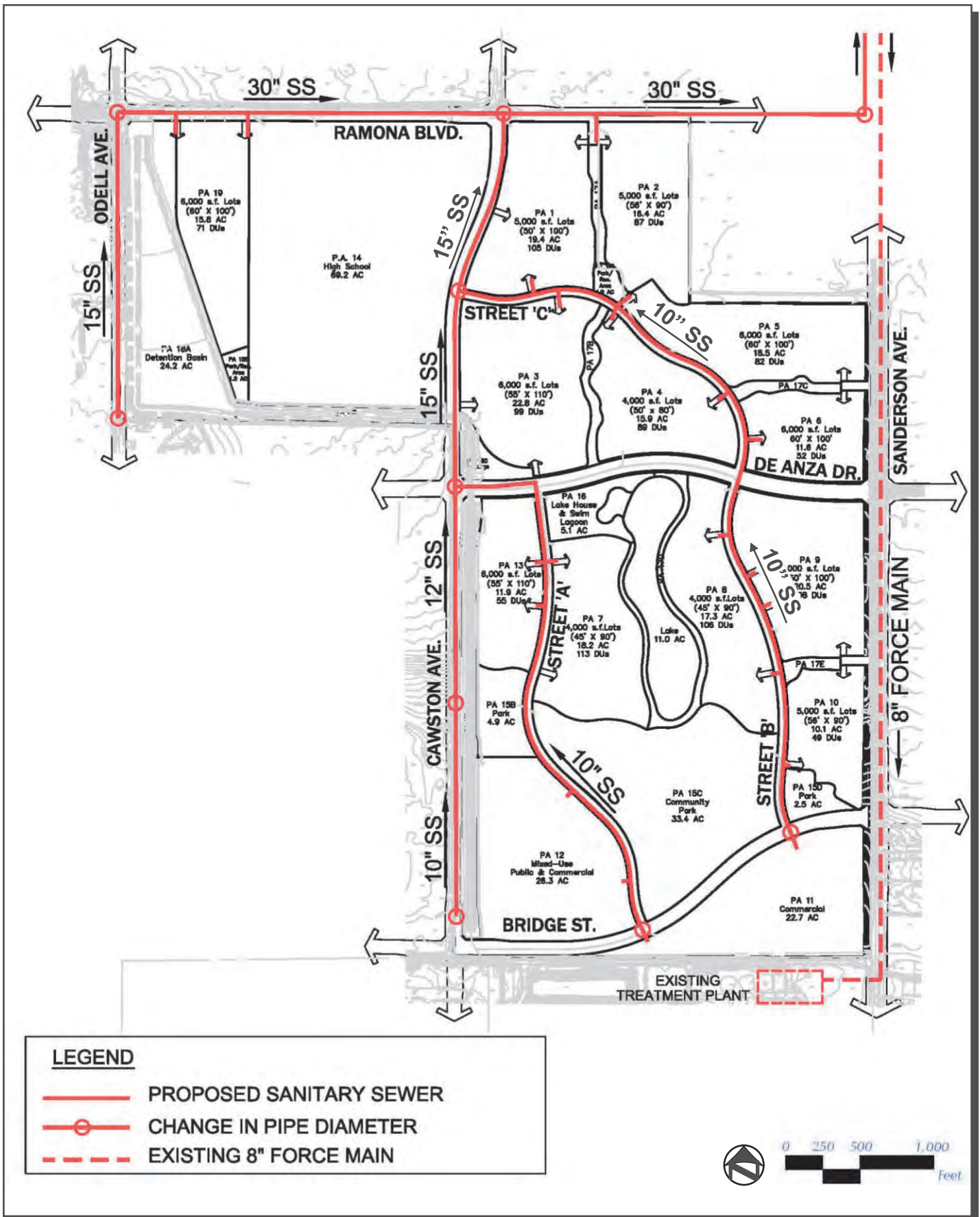


FIGURE 5.12-1

**Village of San Jacinto EIR
Existing Public Services and Facilities**

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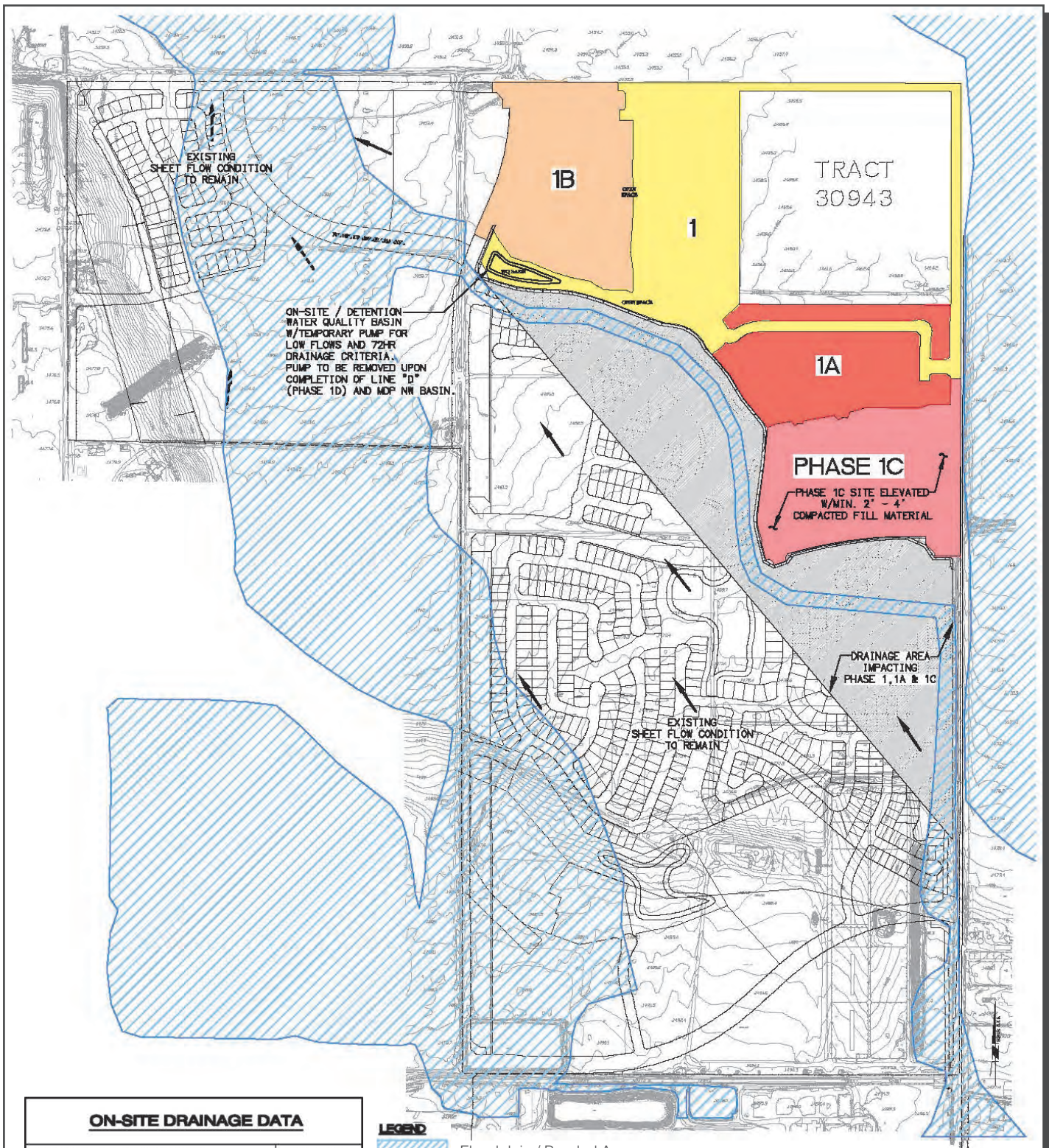


SPECIFIC MAP SOURCE: T&B PLANNING CONSULTANTS, February 2009

Villages of San Jacinto EIR Proposed Sanitary Sewer Facilities

**FIGURE
5.12-2**

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ON-SITE DRAINAGE DATA	
MINIMUM WATER QUALITY VOLUME MITIGATION REQUIRED	= 3.61 AC-FT
MINIMUM DETENTION VOLUME REQUIRED	= 2.71 AC-FT
MINIMUM BASIN VOLUME REQUIRED (DETENTION PLUS WATER QUALITY)	= 6.32 AC-FT
BASIN VOLUME PROVIDED	= 6.32 AC-FT

LEGEND
 Floodplain / Ponded Area

ON SITE / OFF-SITE DRAINAGE DATA	
ON-SITE DRAINAGE AREA IMPACTING PHASES 1-1C	Q100 = 138cfs
OFF-SITE DRAINAGE AREA IMPACTING PHASES 1-1C	Q100 = 100cfs +/-



SOURCE: RBF Consulting, January 2007

Villages of San Jacinto EIR
Proposed Phase 1-1C Interim Drainage Scenario

FIGURE 5.12-3

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Impacts

The proposed Villages of San Jacinto is located within an existing fire protection service area. The City of San Jacinto Development Impact Fee Justification Study, states that City staff has determined existing public facilities to be sufficient to meet the current health, safety, and welfare needs of existing residents and employees (City of San Jacinto 2009). The development of the Villages of San Jacinto would result in an incremental increase in the local demand for fire services. Calls for emergency fire protection and emergency medical services generated from the new development are expected to be similar to that of other suburban residential and commercial areas within the City. Potential hazards and medical emergencies can be adequately addressed with the types of equipment typically found at City fire stations (e.g., response vehicles, EMT equipment) and the proposed project's internal circulation network would provide access to individual home sites and commercial areas from major roadways and would facilitate any necessary community evacuation plans.

The development of the Villages of San Jacinto would result in an incremental increase in demand for fire protection and emergency medical services and, when combined with the increased demand associated with other potential development projects within the project area, additional fire personnel, support staff, and related equipment and facilities would ultimately be required to effectively meet the demands of the proposed development and that of anticipated future development in the surrounding area.

Although the development of the proposed Villages of San Jacinto will not independently impact existing fire services, the City recognizes that new residential and non-residential development in the City within the next 15 years will generate additional residents and employees which will result in increased service calls and increased demand for fire protection personnel and facilities. The City of San Jacinto Development Impact Fee Justification Study identifies the City's determination that four new fire stations and one new fire training facility, and a number of additional service vehicles, will be needed to adequately service new development in the City within the next 15-year period. The Development Impact Fee Justification Study evaluates the need for new fire facilities as it relates to the level of service demanded by new development, which varies in proportion to the equivalent dwelling unit (EDU) generated by a specific land use. When evaluating the level of service demand for new fire protection facilities associated with new development, specific land uses (single family residential, retail commercial and non-retail commercial) are assigned an EDU factor that is derived from the number of persons per residential unit or the number of employees per commercial acreage.

The proposed development would result in a minor incremental increase in demand for fire protection services and, with consideration of future cumulative increases in demand for fire protection services associated with other development proposals and area-wide growth, could

potentially result in decreased levels of service within the project area and city-wide. The proposed project would, therefore, result in potentially significant cumulative impacts to fire protection services. However, feasible mitigation has been identified which would require the developer to pay appropriate development impact mitigation fees which would be used exclusively for future facility improvements as discussed above to ensure that the development contributes its fair share of the cost of the fire facilities and equipment determined to be necessary to adequately accommodate new development in the City. Development of the proposed school site into single-family homes, allowing for a maximum of 1,329 dwelling units would create the highest demand for fire protection services. Implementation of *Mitigation Measure 5.12-a* would ensure that the appropriate mitigation fees are contributed by the development to aid in acquiring the additional resources needed to reduce potential cumulative impacts to fire services to less than significant levels. Therefore, cumulative impacts associated with fire protection services are potentially significant. In order to avoid potential impacts, mitigation is provided (see *Section 5.12.5, Mitigation Measures, Mitigation Measure 5.12-a*).

Mitigation Measures

5.12-a The Developer shall be required to pay the Development Impact Mitigation Fees, as determined to be necessary by the development agreement, City Community Development Department and Public Works Department to offset impacts on City fire services. The current fee amount is outlined in *Table 5.12-1, Fire Facilities Fee Derivation Summary*.

**Table 5.12-1
Fire Facilities Fee Derivation Summary***

Land Use	Residents/ Employees per Unit/Acre	EDUs per Unit/Acre	Number of Proposed EDUs/Acres	Development Impact Fee per Unit/Acre	Total Facility Impact Fee
Single Family	3.05	1.00	1,329**	\$212	\$281,748
Retail Commercial	15.03	4.93	22.7	\$1,042	\$23,653
Non-Retail Commercial	12.70	4.16	26.3	\$880	\$23,144
Total					\$328,545

* Fees are based on those established by the City at the time this RDEIR No. 2 was prepared. Fees may be adjusted in the future as building permits are requested for each specific phase.

** Assumes worse-case scenario that the proposed school site will be developed into single-family homes

Residual Impacts/Level of Significance after Mitigation

The proposed Villages of San Jacinto Specific Plan includes development standards that would apply to all future build-out of the planning area which specifically includes development elements and/or policies and measures to ensure that adequate public facilities and services such

as fire protection are provided in conjunction with build-out of the development. With implementation of the additional mitigation measure above, impacts to fire protection services/facilities would be less than significant.

5.12.3 Police Protection

Existing Conditions

The San Jacinto Police department, located approximately three miles from the project area at 160 West Sixth Street, provides police protection in the City of San Jacinto. As of May 2009, police services are provided throughout the City of San Jacinto under contract by the Riverside County Sheriff's Department. The police department employs a total of 48 staff employees, consisting of 39 sworn personnel (including the police chief, captains, detectives, juvenile officer, and training support supervisor) and 9 non-sworn personnel (community service officers, dispatch supervisor, dispatchers, communications specialist); and maintains 22 marked patrol units, 8 unmarked units and 3 volunteer automobiles. The Department operates in 3 shifts per day, consisting of 3 deputies and 1 sergeant. Emergency call response times for priority 1 calls in the City of San Jacinto average just over four minutes, which is considered slightly below the average and acceptable response times defined by the County Sheriff's Department for other contract City and County police departments. (Personal Communication, Sergeant Brian Tonseth, June 26, 2009).

Significance Criteria

- 2. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for police protection?*

Impacts

The proposed project would result in a maximum of 1,329 residential dwelling units, assuming that the proposed high school would be developed with single-family homes. The development of the school site into single-family homes would create the greatest impact to police protection services and, therefore, that scenario is analyzed. In addition, the proposed project would include public parks and other passive recreational facilities, 22.7 acres of general commercial development, and 26.3 acres of mixed-use development. The proposed Villages of San Jacinto is serviced by the City of San Jacinto Police Department which currently maintains acceptable levels of emergency call response times as defined by the County Sheriff's Department for other contract City and County police departments. The development of the Specific Plan area would

result in an incremental increase in the local demand for police services. Police personnel have indicated that the project area is located in a relatively rural area of limited development where few calls are currently received and attended; therefore, project development will likely result in an increase in the Department's average response time when attending calls from the proposed development (Tonseth, personal communication, June 26, 2009).

The development of the Villages of San Jacinto would result in an incremental increase in demand on police services and, when combined with the demand associated with anticipated population growth and other potential development projects within the project area, additional police personnel, support staff, and related equipment and facilities would be required to effectively meet the demands of the proposed development as well as anticipated future development in the surrounding area. However, the increased demand that would occur with development of the Villages of San Jacinto would be a small portion of the anticipated area-wide increased demand associated with overall population growth and other development projects within the project area. Therefore, increased demand for police protection services resulting from development of the Villages of San Jacinto would be minor and incremental in nature and is not expected to substantially diminish existing service levels of police response or necessitate the construction of any new police facilities (or the expansion of any existing police facilities) that could entail changes in the physical environment. Therefore, impacts to police services would be less than significant.

Although the development of the proposed Villages of San Jacinto would not independently impact existing police services, the City recognizes that new residential and non-residential development in the City of San Jacinto within the next 15-years would generate additional residents and employees, which would result in increased service calls and increased demand for police protection personnel and facilities. The City of San Jacinto Draft Development Impact Fee Justification Study identifies the City's determination that one new police facility and a number of additional service vehicles would be needed to adequately service new development in the City within the next 15-year period. The Draft Development Impact Fee Justification Study evaluates the need for new police facilities as it relates to the level of service demanded by new development, which varies in proportion to the equivalent dwelling unit (EDU) generated by a specific land use. When evaluating the level of service demand for new police protection facilities associated with new development, land uses are assigned an EDU factor that is derived from the number of calls for police services generated for specific land uses (single family residential, multiple family residential, retail commercial, and non-retail commercial).

The proposed development would result in a minor incremental increase in demand for police services and, with consideration of future cumulative increases in demand for police services associated with other development proposals and area-wide growth, could potentially result in decreased levels of service within the project area and city-wide. The proposed project would,

therefore, contribute to potentially significant cumulative impacts to police services. However, feasible mitigation has been identified which would require the developer to pay appropriate development impact mitigation fees which would be used exclusively for the future facility improvements as discussed above to ensure that the development contributes its fair share of the cost of the police facilities and equipment determined to be necessary to adequately accommodate new development in the City. Therefore, cumulative impacts associated with police services are potentially significant. In order to reduce potential impacts, mitigation is provided (see *Section 5.12.5, Mitigation Measures, Mitigation Measure 5.12-b*).

Mitigation Measures

5.12-b The Developer shall be required to pay the Development Impact Mitigation Fees, as determined to be necessary by the development agreement, City Community Development Department and Public Works Department to offset impacts on police services. Current fee amounts are summarized in *Table 5.12-2, Police Facilities Fee Derivation Summary*.

**Table 5.12-2
Police Facilities Fee Derivation Summary***

Land Use	Call Generation Rate	EDUs per Unit/Acre	Number of Proposed EDUs	Development Impact Fee per Unit/Acre	Total Facility Impact Fee
Single Family	3.05	1.00	1,329**	\$198	\$263,142
Retail Commercial	15.03	4.93	22.7	\$2,012	\$45,672
Non-Retail Commercial	12.70	4.16	26.3	\$2,012	\$52,916
				Total	\$361,730

* Fees are based on those established by the City at the time this RDEIR No. 2 was prepared. Fees may be adjusted in the future as building permits are requested for each specific phase.

** Assumes worse-case scenario that school site will be developed into single-family homes

Residual Impacts/Level of Significance after Mitigation

The proposed Villages of San Jacinto Specific Plan includes development standards that would apply to all future build-out of the planning area which specifically includes development elements and/or policies and measures to ensure that adequate public facilities and services such as police protection are provided in conjunction with build-out of the development. With implementation of the additional mitigation measure above, impacts to police protection services/facilities would be less than significant.

5.12.4 Parks and Recreation

Existing Conditions

The City of San Jacinto owns and maintains three parks throughout the City including Salle Park (3.5 to 4 acres) located near Monte Vista School, Mistletoe Park (5 acres) located on Main Street, and Rancho San Jacinto Park (7 acres). In addition, a 36-acre regional park, owned and operated by the Valley Wide Park and Recreation District, is located at 901 W. Esplanade in San Jacinto and includes a 22,000-square-foot sports center, six lighted tennis courts, seven baseball/softball diamonds, six soccer fields, picnic areas with barbecues and play equipment, batting cages, administration offices, outside basketball and volleyball courts, and six horseshoe pits. None of these park facilities are located in the vicinity of the proposed Villages of San Jacinto project site.

The City's General Plan Land Use Map indicates that a total of approximately 44.7 acres of land area on the project site is currently designated for Open Space- Recreation (OS-R) land use. The General Plan indicates that the OS-R category allows for preservation of open space as well as outdoor recreational facilities.

Significance Criteria

- 3. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for parks?*

Impacts

As seen in *Table 5.12-3, Proposed Open Space Designation*, the proposed Villages of San Jacinto project includes a total of 105.4 acres of open space/recreation uses. There will be a total of 43 acres of parks provided on site, including three public parks (40.8 acres) and two private neighborhood parks (2.2 acres). The largest of these parks is the 33.4-acre public Community Park north of Bridge Street in the southern portion of the proposed development. Other recreational amenities include a 5.1-acre Lake House Beach Club and Swim Lagoon. The 11-acre private lake will be located adjacent to the Swim Lagoon. It will feature a concrete trail surrounding lake and connecting to the community park. A total of 9.6 acres of landscaped walkways or "paseos" will serve as pedestrian linkages between land uses and will create landscaped buffer areas between Planning Areas. These paseos will be a minimum of 50 feet wide and have 10-foot-wide concrete trails. The proposed Villages of San Jacinto would result in

an increase in the 44.7 acres of land area within the project area presently designated for open space to a total of 105.4 acres.

**Table 5.12-3
Proposed Open Space Designation**

Land Use Type	Acres
Public Neighborhood and Community Parks	40.8
Private Neighborhood Parks	2.2
Paseos	9.6
Drainage/Basins	15.2
Lake Surfaces	11.0
Landscape Easements	2.4
Water Quality Detention Basin	24.2
Total	105.4

The City's General Plan requires that developers of residential projects provide adequate parkland equal to 5 acres per 1,000 residents and non-residential development provide parkland equal to 2.5 acres per employee. Based on factors in the Development Fee Justification Study (*Table 5.12-1*), the project would result in up to 4,054 residents (1,329 units × 3.05 residents per dwelling unit) creating the need for 20 acres of parkland. Employees associated with the project would create the need for approximately 2 acres of parkland for a total of 22 acres. Since the project provides 41 acres of public parkland, it would exceed the General Plan requirement and no mitigation is required. It should be noted that, in the previous recirculated DEIR (January 2007), a park mitigation fee was required due to the private nature of proposed parks. Because the project provides adequate public parkland, this is no longer the case and the fee is not required. Therefore, development of the Villages of San Jacinto would have an overall beneficial impact to the supply of park land and recreational opportunities to new residents of this community and the public.

Mitigation Measures

None.

Residual Impacts/Level of Significance after Mitigation

The proposed Villages of San Jacinto Specific Plan includes development standards that would apply to all future build-out of the planning areas. These standards specifically include development elements and/or policies and measures to ensure that adequate public facilities and services, such as parks and recreational facilities, are provided in conjunction with build-out of the development. Therefore, impacts to parks and recreational facilities would be less than significant.

5.12.5 Schools

Existing Conditions

The project site is located in the San Jacinto Unified School District (SJUSD) which serves approximately 7,000 students in eight primary K-5 schools, two middle 6-8 schools and two 9-12 high schools (website accessed May 5, 2009, <http://www.sanjacinto.k12.ca.us/>). The City's Land Use Map indicates that two future school sites are planned at the project site.

The closest existing elementary school site to the project area is De Anza Elementary located at 1089 De Anza Drive. The proposed project includes a potential new high school facility which would serve students of the proposed development. Should the proposed high school site not be included in the final build-out of the development, San Jacinto High School, located at 500 Idyllwild Drive, would accommodate high schools students from the project area. Monte Vista Middle School, located at 181 North Ramona Boulevard, would accommodate middle school students from the project area.

According to the San Jacinto Unified School District Residential Development School Fee Justification Study, prepared by David Taussig & Associates, Inc., February 13, 2004, the overall capacity of the District facilities was 7,456 students (including the addition of 7 portables at the elementary level), determined per Section 17071.10 of the California Education Code. The Study determined that of the 7,456 seats, 4,065 were at the elementary level, 1,418 were at the middle-school level, and 1,973 were at the high school level. The study determined that student enrollment in the 2003-2004 school year exceeded the District's facilities at the elementary level, but fell 354 and 158 seats short of the District's middle and high school capacity levels, respectively.

District personnel have indicated that facilities of the San Jacinto Unified School District currently exceed design capacity and the District has been adding additional portable classrooms to accommodate enrollment levels. Of the thirty portable classrooms currently planned to be installed, twenty will be used for elementary students and ten will be used for middle school students. In addition, the District is currently pursuing two new elementary school sites; however, these planned school sites are incorporated into other development proposals and would not accommodate new students generated by the proposed development (Arthur 2004).

Significance Criteria

- 4. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios,*

response times or other performance objectives for fire other public facilities such as schools?

Impacts

The proposed project would result in development of a maximum 1,329 dwelling units, assuming worse case that the proposed school site is developed into single-family homes. The proposed project would also include 22.7 acres of general commercial development, a 26.3-acre mixed-use development, and would also potentially include a 69.1 acre site for a new high school that would accommodate up to 2,000 students. However, as discussed above, existing school facilities in the City are currently at capacity or exceeding capacity at all education levels and the development of future residences on the property would produce new demand for school resources. As such, new development in the City of San Jacinto would result in an increase in residents and employees within the City and would thereby increase demand on school facilities potentially resulting in a significant impact to schools which are already at or approaching maximum enrollment capacity levels.

The San Jacinto Unified School District utilizes student generation rates as published in the District's Residential Development School Fee Justification Study and the Commercial/Industrial Development School Fee Justification Study to determine the projected number of students that would be generated for a new development proposal. *Table 5.12-4, Residential Project Student Generation*, contains the anticipated student generation that would result from the proposed residential development and *Table 5.12-5, Commercial Project Student Generation*, contains the anticipated student generation that would result from the proposed commercial development. The total projected student generation is based on student generation factors contained in the Residential Development School Fee Justification Study and the Commercial/Industrial Development School Fee Justification Study as provided by the School District.

**Table 5.12-4
Residential Project Student Generation**

School District/ Grade Level	Residential Unit Type	# of Units	Generation Factor (Students/Unit)	Total Students
Proposed Project				
Elementary				
K-6	Single-Family	1,329 ¹	0.4832	642
Middle School				
7-8	Single-Family	1,329 ¹	0.1320	175
High School				
9-12	Single-Family	1,329 ¹	0.2302	306
Total Student Generation				1,123

¹ Assumes worse-case scenario that proposed school site will be developed into single-family homes

Based on the proposed number and type of residential units and student generation rates as presented in *Table 5.12-3, Residential Project Student Generation*, the proposed project would generate 642 elementary school students, 175 middle school students and 306 high school students. A total of 1,123 students would be generated by the proposed residential development. In addition, based on the proposed land use type and the amount of new commercial square footage, and student generation rates as presented in *Table 5.12-5, Commercial Project Student Generation*, the proposed project would generate 93 elementary school students, 25 middle school students and 45 high school students for a total of 163 new students and a combined total of 1,286 students.

**Table 5.12-5
Commercial Project Student Generation**

School District/ Grade Level	Proposed Land Use	Square Footage	Student Generation/ 1,000 Square Feet	Total Students
Elementary				
K-6	Retail	247,000	0.1188	29
	Mixed-Use	343,400	0.1856	64
<i>Subtotal K-6</i>				93
Middle School				
7-8	Retail	247,000	0.0322	8
	Mixed-Use	343,400	0.0503	17
<i>Subtotal 7-8</i>				25
High School				
9-12	Retail	247,000	0.0572	14
	Mixed-Use	343,400	0.0895	31
<i>Subtotal 9-12</i>				45
Total Student Generation				163

The proposed project would be required to pay state-mandated school facilities fees (per Government Code Section 65996) at a maximum of \$4.46 per residential square foot and \$0.47 per square foot of new commercial development per current requirements. These fees may be adjusted by the state in the future as building permits for each phase are requested. Payment of such fees represents full mitigation for impacts to schools (see *Section 5.12.5, Mitigation Measures, Mitigation Measure 5.12-c*). Additionally, the proposed project would potentially include the designation of a new 69.1-acre high school site, to be located in the northwest portion (PA 14) of the site, which would accommodate the additional high school students that would be generated by the proposed development.

As discussed above, it is anticipated that the proposed high school site would accommodate 2,000 students. Provision of this school facility in the Villages of San Jacinto Specific Plan would serve new students generated by the proposed development as well as students from adjacent neighborhoods. Payment of state mandated fees will help to offset the cost of this facility.

Mitigation Measures

5.12-c The Developer shall be required to pay the Development Impact Mitigation Fees, as determined to be necessary by the development agreement, City Community Development Department, Public Works Department and San Jacinto School District, to offset impacts on school facilities.

Requiring payment of the school facility mitigation fees would aid in acquiring the additional resources to provide adequate school facilities necessary to accommodate existing and future residents. Therefore, contribution of the mitigation fees by the developer would ensure that adequate mitigation is provided to reduce potential direct and cumulative school impacts to less than significant levels. Should the developer assist the City in facilitating the construction of the school site identified in the Specific Plan, the City may decide to waive or reduce some portion of the school mitigation fees typically required to an appropriate lesser amount in consideration of the partial mitigation provided by developer-assisted, on-site school facility construction.

Residual Impact/Level of Significance after Mitigation

The proposed Villages of San Jacinto Specific Plan includes development standards that would apply to all future build-out of the planning area which specifically includes development elements and/or policies and measures to ensure that adequate public facilities and services such as schools are provided in conjunction with build-out of the development. With implementation of the additional mitigation measure above, impacts to schools would be less than significant.

5.12.6 Wastewater Treatment

Existing Conditions

Wastewater treatment for the City of San Jacinto is provided by the Eastern Municipal Water District (EMWD) Hemet/San Jacinto Regional Water Reclamation Facility. The facility collects and treats municipal sewage and produces recycled water for reuse. According to the Eastern Municipal Water District's wastewater treatment website page for the Hemet/San Jacinto Regional Water Reclamation Facility the facility currently maintains a typical daily treatment flow of 7.8 million gallons a day (MGD) and a maximum raw sewage treatment capacity of 11

MGD. The facility is slated for an expansion to provide a maximum of 27 MGD treatment capacity to accommodate projected future sewage production from growth in the facility's service area (EMWD, http://www.emwd.org/news/Insights/insights_hemet-san_jacinto.pdf accessed May 5, 2009). All EMWD facilities are currently determined to be in compliance with Regional Water Quality Control Board wastewater treatment requirements. Currently, there is an existing force main located within the Sanderson Avenue right-of-way along the east property boundary. The existing De Anza lift station located at the northeast corner of the project area conveys flows through the sewer main to the Hemet/San Jacinto Regional Water Reclamation Facility located directly south of the project site.

Significance Criteria

5. *Would the project exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?*
6. *Would the project require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which would cause significant environmental effects?*
7. *Would the project result in determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?*

Impacts

Wastewater treatment for the City of San Jacinto is provided by the EMWD Hemet/San Jacinto Regional Water Reclamation Facility. The facility collects and treats municipal sewage and produces recycled water for reuse, maintaining a typical daily treatment flow of 7.8 MGD and a raw sewage treatment capacity of 11 MGD. The facility is slated for an ultimate expansion of 27 MGD to accommodate projected future sewage production from growth in the facility's service area. All EMWD facilities are currently determined to be in compliance with Regional Water Quality Control Board wastewater treatment requirements.

Wastewater production of the proposed project would be conveyed via on-site infrastructure improvements and the City's existing public sewer system facilities to the Hemet/San Jacinto Regional Water Reclamation Facility for treatment. The proposed development would include new on-site sewer infrastructure improvements including 12- to 30-inch sewer lines that would gravity flow via the proposed internal roadways to within a 30-inch trunk line in Ramona Boulevard and then continue to gravity flow toward the existing De Anza lift station, which would then travel through a force main to the Hemet/San Jacinto Regional Water Reclamation Facility for treatment (see *Figure 5.12-2, Master Sewer Plan*).

Based on an average sewage generation rate of 300 gallons per day per household, and 1,700 gallons per day per acre of commercial/mixed-use development, the proposed project's maximum of 1,329 residential units and 49 acres of commercial/mixed-use would generate 482,000 gallons per day of wastewater (based on factors from RBF Consulting, November 9, 2005). This wastewater would be treated by the Hemet/San Jacinto Regional Water Reclamation Facility. This assumes that the school site would be developed into single-family residential (the 313 dwelling units that would be built at the school site would generate more wastewater than a school and thus represents a worst case scenario). As described above, the Hemet/San Jacinto Regional Water Reclamation Facility currently treats up to 7.8 MGD and has a current capacity of 11 MGD and ultimate capacity of 27 MGD. The quantity of wastewater generated by the proposed project would not exceed the current sewage treatment capacity, assuming a worst-case scenario that no expansion of the facility takes place prior to project completion. Therefore, the proposed project's impacts related to availability of existing sewer treatment services would be less than significant.

The Specific Plan identifies the following conditions for development in the Specific Plan area:

- All water and sewer lines will be designed per the Eastern Municipal Water District's Water and Sewer System Planning and Design Criteria dated July 2, 2007, and September 1, 2006, respectively.
- The infrastructure system and phasing shall be designed and installed consistent with the City of San Jacinto Engineering Department requirements.
- The Eastern Municipal Water District will manage the development of infrastructure for the project area.
- Water and sewer facilities shall be installed in accordance with the requirements and specifications of the San Jacinto Engineering Department and the Riverside County Health Department.

The quantity of wastewater generated by the proposed development is not expected to exceed the sewage treatment capacity and the proposed Specific Plan policies require that a written agreement with EMWD be executed which states that the provision of services shall be available prior to the recordation of any tract maps. The Specific Plan policies further require that new sewer facilities are developed consistent with EMWD's planning and design criteria, and in accordance with the City Engineering Department. Therefore, all necessary facility infrastructure will be appropriately designed and constructed to serve the proposed development. Impacts related to sewer services would be less than significant.

Mitigation Measures

None.

Residual Impact/Level of Significance after Mitigation

The proposed Villages of San Jacinto Specific Plan includes development standards that would apply to all future build-out of the planning area which specifically includes development elements and/or policies and measures to ensure that adequate public facilities and services such as wastewater are provided in conjunction with build-out of the development. Therefore, impacts to wastewater systems would be less than significant.

5.12.7 Storm Drain Facilities

Existing Conditions

Stormwater runoff generated in the Specific Plan area currently drains primarily via sheet flow in a northerly direction toward the San Jacinto River. Existing drainage features on or near the project site consist of an open channel adjacent to the east property boundary that runs along Sanderson Avenue that conveys runoff north toward the San Jacinto River, and a depressed portion of land located at the northwest section of the project area which receives drainage across the site.

Significance Criteria

8. *Would the project require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?*

Impacts

The project site generally drains in a northwesterly direction toward the San Jacinto River, primarily in a sheet flow pattern. The northerly portion of the project site is within the 100-year floodplain. The Drainage Plan provides 100-year flood protection for the project site for the interim and ultimate condition as described below.

Interim Condition

The interim condition assumes that surrounding areas remain undeveloped (such as in the existing condition), and the on-site development of the Villages of San Jacinto and corresponding infrastructure is independently functional. This includes the construction of two interim facilities and the reconstruction of an earthen roadway east of the De Anza Drive and

Sanderson Avenue intersection. These interim drainage facilities are required to control and convey the interim flow rates originating from the off-site area. Interim facilities include Culvert V, which will provide 100-year flood protection for Bridge Street; Culvert E, located north of the intersection of Sanderson Avenue and the Casa Loma Canal.

The Specific Plan identifies the following conditions for development of the Villages of San Jacinto:

- Drainage and flood control facilities and improvements shall be provided in accordance with City of San Jacinto and Riverside County Flood Control and Water Conservation District (RCFC & WCD) requirements.
- Project drainage facilities shall be publicly maintained. The City of San Jacinto will maintain storm drain systems that are equal to or less than 36-inches in diameter and all roadway culverts. RCFC & WCD will maintain all open channels and subsurface storm drains greater than 36-inches in diameter.
- RCFC & WCD will maintain lines and grades for all open channels. The City of San Jacinto will be required to maintain all landscape features and appurtenances. Additionally, the City will maintain turf reinforcement mats that will be used for stability of channel invert erosion.
- All projects proposing construction activities including: clearing, grading, or excavation that results in the disturbance of at least five acres total land area, or activity which is part of a larger common plan of development of five acres or greater, shall obtain the appropriate NPDES construction permit and pay the appropriate fees. All development within the Specific Plan boundaries shall be subject to future requirements adopted by the City to implement the NPDES program. Mitigation measures may include, but are not limited to: covered storage of all outside storage facilities; vegetated swales; monitoring programs; etc.

Section 5.8, Water Quality and Hydrology, indicates that improvements to the stormwater collection system and installation of a new on-site drainage system would be necessary to provide adequate storm drainage within the Villages of San Jacinto (see *Figure 5.8-2, On-Site Drainage Facilities*). The Specific Plan incorporates policies regarding control of stormwater runoff to reduce the overall quantity of stormwater and the Plan includes several specified components to improve drainage conditions and to ensure that drainage facilities are provided to adequately control runoff from the site.

Mitigation Measures

See Mitigation Measures in *Section 5.8.5, Water Quality and Hydrology*, for measures related to provision of adequate storm drainage facilities.

Residual Impact/Level of Significance after Mitigation

The proposed Villages of San Jacinto Specific Plan includes development standards that would apply to all future build-out of the planning areas which specifically includes development elements and/or policies and measures to ensure that adequate public facilities and services such as storm drainage are provided in conjunction with build-out of the development. With implementation of the mitigation measures in *Section 5.8.5, Water Quality and Hydrology Mitigation Measures*, impacts to stormwater drainage systems would be less than significant.

5.12.8 Domestic Water Supply

The following discussion is based in part on the previously referenced Water Supply Assessment Report (December 15, 2004), and a letter from EMWD confirming their previous conclusions (May 11, 2009).

Existing Conditions

Domestic water supply is provided to the City of San Jacinto by the Eastern Municipal Water District (EMWD) which provides domestic and agricultural water supply, wastewater collection and treatment service, and recycled water in a 555 square mile service area from Moreno Valley to Temecula, and from Hemet and San Jacinto to Good Hope and Mead Valley. The EMWD serves a population of approximately 675,000 in Western Riverside County and generally provides approximately 110 million gallons of water per day for domestic and agricultural supplies and for other water agencies in the area (Eastern Municipal Water District, <http://www.emwd.org/news/Insights/Insights4-09.pdf>, accessed May 5, 2009). Water resources used to sustain the existing agricultural operations is provided primarily as recycled water by the EMWD, which is supplemented by groundwater produced by three on-site wells for which there are no restrictions on private use. Currently, irrigation for the turf farm operation consists of a combination of 95% reclaimed water and 5% groundwater.

The City is aware that some time has passed since the project's Water Supply Assessment (WSA) was adopted (December 15, 2004); therefore, the City has confirmed with EMWD that its WSA conclusions are still valid (letter dated May 11, 2009). The original WSA and confirmation letter are contained in Appendix K. The City has also taken into account other developments in water supply that may affect the project area and has provided this analysis below.

Delta Smelt: Kempthorne Case and New FWS Biological Opinion

On May 25, 2007, the United States District Court for the Eastern District of California ruled that the biological opinion prepared by the United States Fish and Wildlife Service (FWS) concerning the effects of long-term operations of the State Water Project (SWP) and the federal Central Valley Project (CVP) upon delta smelt was invalid under the federal Endangered Species Act. (*Natural Resources Defense Council v. Kempthorne, et al.*, USDC Case No. 05-CV-1207-OWW.) On December 14, 2007, the court issued an Interim Remedial Order and Findings of Fact and Conclusions of Law requiring that the SWP and CVP operate according to certain specified criteria until a new biological opinion for the delta smelt was issued. Based on estimates prepared by the California Department of Water Resources (DWR), MWD estimated that for the year 2008, it would be subject to reductions in SWP supplies of up to a 30% as a result of the Kempthorne order, depending on prevailing hydrologic conditions and migratory status of the delta smelt.

On December 15, 2008, the FWS issued a new B.O. regarding the effects of CVP and SWP operations on delta smelt. According to preliminary information published DWR, which operates the SWP, the new B.O. will continue reductions in SWP and CVP exports from the Delta that were in effect since December 2007 under the federal court order in Kempthorne. DWR has estimated that under average water year conditions, the “most likely” result of the new B.O. is a 1% increase in the amount of available SWP supplies in comparison to the Kempthorne restrictions, although a worst-case scenario could result in a 13% decrease in available supplies. Under dry water year conditions, DWR states the “most likely” result of the new B.O. is the exact same type of potential restrictions as set forth in Kempthorne, although restrictions could possibly increase by 21% under a worst-case scenario. (See www.water.ca.gov/news/newsreleases/2008/121508swpimpacts.pdf.) As with the Kempthorne order, potential water supply restrictions under the new B.O. are dependent on various factors that cannot be predicted with a high degree of certainty, including hydrologic conditions, migratory and reproductive patterns of delta smelt, and other factors affecting delta smelt abundance in the Delta.

Due to a number of alleged scientific and other deficiencies in the new B.O., water agencies holding contracts to receive SWP supplies from DWR, among others, filed complaints in the Federal District Court for the Eastern District of California challenging the B.O. (See, *San Luis Delta-Mendota Water Authority et al. v. Salazar et al.*, Case No. 1:09-cv-407 (E.D. Cal., filed Mar. 3, 2009); *State Water Contractors v. Salazar, et al.*, Case No. 1:09-CV-422 (E.D. Cal., filed Mar. 4, 2009); *Coalition for a Sustainable Delta et al. v. United States Fish and Wildlife Service et al.*, Case No. 1:09-cv-480 (E.D. Cal., filed Mar. 12, 2009; amended complaint filed May 28, 2009); *Metropolitan Water District v. United States Fish and Wildlife Service*, Case No. 1:09-CV-631 (E.D. Cal., filed Apr. 8, 2009); and *Stewart & Jasper Orchards et al. v. United*

States Fish and Wildlife Service et al., Case No. 1:09-cv-892 (E.D. Cal., filed May 21, 2009)) These litigation matters challenging the validity of the new B.O. give rise to the additional possibility that SWP delivery reductions as set forth by the *Kemphorne* order could be put back in place pending final legal resolution of the new B.O. In light of these various factors, the degree to which SWP deliveries may be reduced under the new B.O. for delta smelt remains somewhat speculative at this time.

Salmon/Anadromous Species: Gutierrez Case and New NMFS Biological Opinion

SWP and CVP operations have also been challenged in a separate litigation matter, entitled *Pacific Coast Federation of Fishermen's Association / Institute for Fisheries Resources, et al. v. Gutierrez, et al.*, (USDC Case No. 1:06-CV-00245-OWW). In October 2004, the National Marine Fisheries Service (NMFS) issued a "no jeopardy" determination and biological opinion (B.O.) analyzing impacts to threatened winter and spring-run salmon and steelhead trout in connection with SWP and CVP operations in the Delta through the year 2030. As with the *Kemphorne* case above, the project/action evaluated in the NMFS B.O. included current and future Delta pumping operations under the Operations and Criteria Plan (OCAP). In August 2005, several environmental plaintiff groups filed suit in federal court against NMFS and the Secretary of Commerce challenging the validity of the B.O. Several public agencies that hold contracts to receive water from the CVP and SWP intervened in the action. The plaintiffs later filed an amended complaint and thereafter the case was stayed for a period of time while the parties attempted to negotiate a settlement of the issues. The stay was later lifted and, in May 2007, the plaintiffs filed a motion for summary judgment to invalidate the B.O. without a trial. Similar to the situation discussed above in the *Kemphorne* case, NMFS and the Bureau of Reclamation decided, notwithstanding the outcome of the litigation, to reinitiate ESA Section 7 consultation regarding how the projects affect the protected anadromous species. Thus, the two agencies are now preparing the necessary documentation to produce a new B.O. A hearing on the summary judgment motions in the *Gutierrez* case was held on October 3, 2007, and on April 16, 2008, the Court issued its decision invalidating the NMFS B.O. for failing to comply with the federal ESA. As with *Kemphorne*, the Court did not vacate the B.O., meaning that CVP and SWP operations are authorized to continue pending the preparation of a new B.O. and any interim requirements the Court may impose. Proceedings were scheduled thereafter to determine whether interim restrictions such as those ordered in the *Kemphorne* case would be required pending the new B.O. On July 18, 2008, Judge Wanger issued Findings of Fact and Conclusions of Law which determined, among other things, that additional water supply restrictions beyond those required in *Kemphorne* (and now the new B.O.) are not required at this time. The Court again reached the same conclusion in a subsequent decision dated October 21, 2008.

On June 4, 2009, NMFS issued a new B.O. regarding the effects of CVP and SWP operations on protected salmon, steelhead, green sturgeon, and resident killer whales. According to draft

information published by DWR, NMFS has calculated that the B.O. has the potential to reduce combined CVP and SWP deliveries from the Delta by 5 to 7%, while DWR has initially estimated that average year reductions have the potential to range closer to 10%, in addition to restrictions imposed under the FWS B.O. for delta smelt. (See, <http://www.water.ca.gov/news/newsreleases/2009/060409salmon.pdf>.) As with the FWS B.O. for delta smelt and the Incidental Take Permit for longfin smelt, potential water supply restrictions under the NMFS B.O. are dependent on various factors that cannot be predicted with a high degree of certainty, including hydrologic conditions in the Delta region, migratory and reproductive patterns of protected anadromous fish, and other factors affecting the abundance of those species in the Delta. In June 2009, legal challenges were filed against the NMFS B.O. in the United States District Court for the Eastern District of California alleging, among other things, that the water supply restrictions set forth in the B.O. were established in violation of the federal Endangered Species, the federal Administrative Procedures Act, and other laws. (See, e.g., *San Luis & Delta Mendota Water Authority, et al. v. Locke, et al.*, Case No. 1:09-CV-01053-OWW-DLB; *Stockton East Water District v. United States National Oceanic and Atmospheric Administration, et al.*, Case No. 1:09-CV-01090-OWW-DLB.) The above-mentioned cases and other potential litigation that could be filed against the NMFS B.O. call into question whether the water supply restrictions in the B.O. can be imposed against the SWP. For these reasons, the degree to which SWP deliveries may be reduced under the new NMFS B.O. species remains speculative at this time.

Longfin Smelt: California Department of Fish and Game Incidental Take Permit

Another factor having the potential to affect the availability and reliability of SWP supplies is the March 4, 2009, decision by the California Fish and Game Commission (Commission) that listing the longfin smelt as a “threatened” species is warranted under the California Endangered Species Act (CESA). The longfin smelt is a small pelagic fish species, related to the delta smelt, whose habitat includes the Sacramento-San Joaquin Delta, among other areas along the West Coast. Under CESA, a threatened species is a native species or subspecies that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future absent special protection and management efforts. CESA sets forth a general prohibition against the take of a threatened species except as otherwise authorized under CESA. One such authorization is provided by California Fish and Game Code section 2081, wherein the California Department of Fish and Game (DFG) may authorize the incidental taking of a threatened species in connection with an otherwise lawful activity through the issuance of a permit. On February 29, 2009, DFG issued Incidental Take Permit No. 2081-2009-001-03 (Permit) to DWR as the owner and operator of the SWP. The Permit applies to the ongoing and long-term operation of the SWP’s facilities in the Delta, including Clifton Court Forebay, the John E. Skinner Fish Facility, the Harvey O. Banks Pumping Plant and the North Bay Aqueduct,

and authorizes DWR to incidentally take longfin smelt in connection with its operation of the SWP, provided the terms and conditions of the Permit are satisfied. The Permit imposes operating restrictions on the SWP facilities that are based in large part on the restrictions imposed on the SWP by the new B.O. issued by FWS for delta smelt (see above). As with the B.O. for delta smelt, potential water supply restrictions under the Permit are dependent on various factors that cannot be predicted with a high degree of certainty, including hydrologic conditions in the Delta region, migratory and reproductive patterns of longfin smelt, and other factors affecting longfin smelt abundance in the Delta. DWR has not indicated whether any particular reductions in SWP exports are likely to result from the Permit. Due to a number of alleged scientific and other deficiencies in the Permit, an organization of water agencies holding contracts to receive SWP supplies from DWR has filed a complaint in Sacramento County Superior Court challenging the Permit. (See, *State Water Contractors v. California Dept. of Fish and Game, et al.*, Sac. Sup. Ct. Case No. 34-2009-80000203.) That case has brought DFG's ability to enforce the Permit into question. In light of the foregoing factors, potential reductions in SWP supplies resulting from DFG's Incidental Take Permit for longfin smelt remain speculative at this time.

SWP Supply Reliability: DWR 2007 SWP Delivery Reliability Report

While various factors can affect the availability and reliability of imported water supplies from the State Water Project (SWP), the likelihood of those supplies being available to MWD over the short, intermediate and long-term periods during normal, single-dry and multiple-dry year hydrologic cycles have been extensively analyzed and addressed by the California Department of Water Resources (DWR). In fact, commencing in 2003 and every two years thereafter, DWR prepares a SWP Delivery Reliability Report that is intended to assist local agencies, cities and counties in conducting water supply analyses to demonstrate whether their water supplies are sufficient for development projects subject to the CEQA review process. DWR's most recent 2007 Final SWP Delivery Reliability Report (DWR Reliability Report) was published in August 2008.

According to the DWR Reliability Report, the long-term average delivery of contractual amounts of SWP Table A supply is expected to range from 63% under current (2007) conditions to between 66 and 69% under future (2027) conditions. (DWR Reliability Report, pp. 44-45, 51-52, 55-56, 78.) Within that long-term average, SWP Table A deliveries can range from 6% (single dry year) to 90% of contractual amounts under current conditions (DWR Reliability Report, p. 44), and from 6 to 7% (single dry year) to 100% of contractual amounts under future conditions. (DWR Reliability Report, pp. 51, 55-56.) The analyses provided in the DWR Reliability Report are based upon 82 years of historical records for rainfall and runoff that have been adjusted to reflect the current and future levels of development in the sources areas by analyzing land use patterns and projecting future land and water uses. (DWR Reliability Report, p. 20.) Of key

importance, the studies utilized in the DWR Reliability Report for current through future conditions (20-year projection) assume and account for current facility and institutional limitations facing the SWP, such as: water quality issues; fishery protections; export curtailments and other requirements under State Board Water Rights Decision 1641; the Vernalis Adaptive Management Plan (VAMP) as described in the 2004 Operations Criteria and Plan (OCAP); recent court-ordered Delta flow targets in Old and Middle Rivers to protect listed fish species; and potential effects of Delta levee failures and other seismic or flood events. (See, e.g., DWR Reliability Report, pp. 8, 16, 18-21, 27, 30, 32, 35, 37-39, Appendices A and B.)

In addition, DWR's long-term SWP delivery reliability analyses incorporate assumptions to account for potential supply shortfalls related to global climate change factors. (Ibid.) The DWR Reliability Report accounts for potential affects of future climate change on SWP deliveries through the year 2050 by examining four climate change scenarios: weak temperature warming and weak precipitation increase in California under model PCM; modest warming and modest drying under model PCM; modest warming and modest drying under model GFDL v. 2.0; and weak temperature warming and weak precipitation increase in California under model GFDL v. 2.0. (See DWR Reliability Report, pp. 1, 17, 27, 37-39, 43, Appendices A and B.) Thus, the effects of these institutional, administrative and court-ordered reductions in SWP exports, as well as the potential effects of long-term global climate change, have been extensively analyzed and accounted for in the supply forecasts set forth by DWR's 2007 Final SWP Delivery Reliability Report.

The 29 SWP Contractors and water agencies throughout California utilize the DWR Reliability Report in their water supply analyses, planning and reporting obligations. Indeed, both MWD's Regional UWMP and EMWD's 2005 UWMP acknowledge that SWP entitlements differ from actual SWP deliveries made available to SWP Contractors. (See, MWD Regional UWMP, pp. III-41 to III-50; EMWD 2005 UWMP, pp. 32-35.) SWP Contractors, including MWD, generally anticipate that the variability of SWP supplies may increase in the future as the Contractors request their maximum Table A amounts and as system-wide issues such as Delta exports are resolved. At the same time, however, SWP Contractors such as MWD who utilize groundwater basins to recharge portions of their SWP deliveries, as well as other exchange and transfer arrangements, can plan to receive long-term average deliveries of 66 to 69% of their SWP Table A allotments. (2007 DWR Reliability Report, pp. 39-40.) As indicated above, MWD has incorporated DWR's SWP reliability studies and analyzed several other key factors in developing its conservative estimate of long-term SWP deliveries. (MWD Regional UWMP, pp. III-41 to III-50.)

Drought Conditions: Regional Water Supply Planning, Statewide Drought Declarations, and Water Agency Responses

In its role as the supplemental water supplier to Southern California, MWD faces ongoing challenges in meeting the region's need for reliable, high-quality water supplies. (MWD Regional UWMP, p. II-1.) Increased environmental regulations and competition for water from outside the region have resulted in changes in delivery patterns and timing of availability of imported water supplies. (Id.) Because of competing needs and uses associated with these resources, and because of concerns related to regional water operations, MWD has undertaken a number of planning initiatives over the past ten years. MWD's Regional UWMP discusses and analyzes those efforts. Particularly important to MWD's mission is its coordinated approach to regional planning through the Integrated Resources Plan (IRP). The outcome of the IRP process was a "Preferred Resource Mix" which would ensure water supply reliability to MWD and its member agencies reliability. As part of the IRP, MWD has developed an overall reliability analysis in its computer-based model referred to as the IRPSIM, which evaluates the reliability of its water supplies, including supplies available from the SWP, the Colorado River, water transfers and exchanges, and other sources. (See, MWD Regional UWMP, pp. II-1 to II-15.) The IRPSIM is based on 70 years of historical hydrology (from 1922 to 1991) to allow it to estimate water surplus and shortage over a 20-year period and beyond. The model has allowed MWD to analyze the reliability of deliveries to its member agencies during worst-case single year and multiple year drought events. The results of MWD's modeling indicate that it can maintain reliable supplies to meet all member agencies' full-service demands without interruption throughout the 2005 to 2030 time period, including under drought conditions. (MWD Regional UWMP, pp. II-2/3, 11, 15.) Detailed analyses regarding MWD's supply projections are also set forth in Appendix A of MWD's Regional UWMP. As detailed in those analyses, MWD's overall supply and delivery reliability is based not just on Colorado River and SWP supplies, but also on conservation programs, groundwater storage programs, and water transfer and exchange programs.

A key component of MWD's water supply strategy is its Water Surplus and Drought Management Plan (WSDM). The purpose of the WSDM is to provide policy guidance and help manage regional water supplies to achieve the reliability goals of the IRP, where MWD seeks to maximize management of wet year supplies and minimize adverse impacts of water shortages to retail customers. Supporting principles of the WSDM include the encouragement of efficient water use and economical local resource programs, coordinated operations with member agencies to make as much surplus water as possible available for use in dry years, and the pursuit of innovative transfer and banking programs to secure more imported water for use in dry years. The WSDM contains the following considerations that would go into any equitable allocation of imported water: impact on retail customers and regional economy; investments in local

resources, including recycling and conservation; population growth; changes and/or losses in local supplies; participation in MWD's non-firm, interruptible programs; and investment in MWD facilities. The WSDM distinguishes between surpluses, shortages, severe shortages, and extreme shortages. Within the WSDM, each year MWD evaluates the level of supplies available and existing levels of water in storage to determine the appropriate management stage for that year. Each stage is associated with specific resource management actions designed to avoid extreme shortage scenarios to the maximum extent possible and minimize adverse impacts to retail customers if an extreme shortage occurs. The sequencing outlined in the WSDM reflects anticipated responses based on detailed modeling of MWD's existing and expected water supply resource mix. When MWD must make net withdrawals from storage to meet demands, it is considered to be in a shortage condition. Under most stages of shortage, MWD is still able to meet all end-use demands for water. For more severe shortage conditions, the WSDM shows that MWD will meet demands by withdrawing water from storage. Under worsening shortage conditions, MWD may undertake additional shortage management steps, including issuing public calls for extraordinary conservation, including the curtailment of Interim Agricultural Water Program deliveries in accordance with their discounted rates, exercising water transfer options, or open market water purchases. In an extreme shortage scenario, MWD may be required to implement a plan to allocate available supply fairly and efficiently among its full-service customers, which allocations are to be based on and enforced through rate surcharges where member agencies will be required to pay more for deliveries exceeding their respective allotments. (MWD RUWMP, pp. II-15/16.) The benefits of aggressive water conservation and public education efforts are also detailed in MWD's RUWMP. (See MWD 2005 RUWMP, pp. III-5 through III-21.)

On February 12, 2008, MWD adopted a Water Supply Allocation Plan (WSAP) as a component of its WSDM. As indicated above, the WSDM guides MWD's supply actions under both wet and dry conditions for achieving overall water supply reliability to its member agencies, including EMWD. The WSDM outlines various water supply conditions and corresponding actions MWD may undertake in response to serious water shortages. Under Condition 1, MWD issues a Water Supply Watch and encourages local agencies to implement voluntary dry-year conservation measures and utilize regional storage reserves. Under Condition 2, MWD issues a Water Supply Alert and calls for cities, counties, its member agencies and all other retail water providers to implement extraordinary conservation through drought ordinances and other measures to mitigate the use of storage reserves. Under Condition 3, MWD may implement its WSAP, which allocates available water supplies among member agencies based on factors such as impacts on retail customers, population and growth of particular member agencies, the availability of recycled water and other local supplies, conservation efforts, participation in MWD's interruptible water supply programs, and investment in MWD's facilities.

On June 4, 2008, the Governor of California proclaimed a statewide drought due to record-low rainfall in spring 2008 and court-ordered restrictions on Delta exports as discussed above. (Executive Order S-06-08.) Soon thereafter, the Governor proclaimed a state of drought emergency to exist within the Counties of Sacramento, San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulare and Kern. (Proclamation dated June 12, 2008.) In response, MWD determined it was not necessary to implement its Water Supply Allocation Plan but, rather, on June 10, 2008 declared a Condition 2 water scenario and issued a Water Supply Alert, calling on local agencies and residents to take immediate steps for conserving water. On February 27, 2009, the Governor declared a statewide water supply emergency to combat California's third consecutive year of drought. (Proclamation dated February 27, 2009.) Relatively soon thereafter, on April 14, 2009, MWD's Board of Directors implemented its WSAP at a Regional Shortage Level 2 with the goal of reducing regional demand for wholesale water deliveries by 10%. This marks the first time MWD has implemented the WSAP since it was approved in February 2008 after a seven-month development process. The WSAP will go into effect on July 1, 2009, and has the potential to increase the cost of MWD water supplies to particular member agencies.

The WSAP outlines a three step process for determining each member agency's "allocation year" supply during a period of shortage. First, base period local supplies, wholesale demands and retail demands are calculated by averaging data compiled during a three-year base period which MWD established as 2004 through 2006. Base period local supplies are the average annual supplies generated by groundwater production, groundwater recovery, Los Angeles Aqueduct supply (for the Los Angeles Department of Water and Power), surface water production, and other imported supplies, but do not include non-potable recycled water production. Under the Plan, base period wholesale demand includes full-service water deliveries, seawater barrier, seasonal shift, and surface storage operating agreement demands. The base period retail demand is calculated by adding base period local supplies and wholesale demand. Base period demand figures are then used to estimate allocation year retail demands, local supplies and, ultimately, wholesale demands. Notably, total retail demands for the allocation period are calculated by adjusting the base period retail demands for growth. The growth adjustment is calculated using the estimated actual annual rate of population growth at the county level, as determined by the California Department of Finance. Similarly, allocation year local supplies are estimated using the base year local supplies, adding average in-lieu deliveries received during the base period and planned or scheduled increases in supply over the base year, and subtracting losses of local supply due to conditions such as hydrology or water quality. Allocation year wholesale demand, which serves as the basis of a member agency's ultimate allocation, is then calculated by subtracting allocation year local supplies from retail demands.

Extraordinary increases in production over the base year, defined as increases that occur solely due to the circumstances in that year such as purchasing water transfers or overproducing

groundwater yield, are not included in the allocation year local supplies during a Regional Shortage Level 1 or 2 and, therefore, do not reduce allocation year wholesale demand. In years where MWD declares a Regional Shortage Level 3 or above, only a fraction of an agency's extraordinary increase in production will be included in the allocation year local supplies which, in turn, will influence the agency's allocation year wholesale demand. In the final step, the allocation year wholesale demand is converted into a water supply allocation. Actual allocations will be adjusted with credits based upon an agency's past conservation efforts and relative dependence upon MWD water deliveries.

Allocations under the WSAP ultimately are achieved through a penalty rate structure enforced by MWD. If a member agency exceeds its allocation, penalty rates and charges will apply for water deliveries to the agency in excess of the allocation. MWD will track agency water use on a monthly basis and any applicable penalties are to be assessed at the end of an allocation year. Thus, member agencies are not subject to penalties on the basis of a high demand month but, rather, only if their total usage between July 1, 2009, and June 30, 2010, exceeds their total annual allocation. Penalties will be assessed through an ascending block structure that imposes a lower penalty for minor overuse and a higher penalty for higher exceedance of an agency's water supply allocation. The Plan provides for an allocation appeals process which may be used to address miscalculated base period supplies, unforeseen loss or gain in local supply, population growth rates, and other issues affecting an agency's allocation. As indicated above, MWD has implemented its WSAP at a Regional Shortage Level 2 with the goal of reducing wholesale demands within its service area, maintaining storage reserves and decreasing the risk of additional supply allocations in the future.

EMWD has taken numerous steps to prepare itself and its customers for the potential scenario where MWD may implement its WSAP. Through these steps, EMWD has been able to achieve extraordinary water conservation and demand management on an agency-wide basis such that MWD's recent allocation is not expected to result in an actual reduction in MWD water deliveries to EMWD. Rather, EMWD has sought to markedly change the manner in which water is used within its territory as a means of controlling the amount of additional imported supply it may need from MWD during the allocation period. The key components of EMWD's demand management strategy are discussed below.

EMWD recently adopted Ordinance No. 72.24 (February 4, 2009) establishing aggressive new requirements to achieve water use efficiency within its service territory. Indeed, Ordinance No. 72.24 states that the following water efficiency requirements shall apply to all existing and future customers: (a) refrain from hosing down driveways and other hard surfaces, except for health or sanitary reasons and then only by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off device or a low-volume, high-pressure cleaning machine equipped to recycle any water used; (b) repair faucets, toilets, pipes and other

potential sources of water leaks; (c) irrigate landscape only between 9:00 p.m. and 6:00 a.m., although this provision does not apply when (i) manually watering during the establishment period of a new landscape, (ii) temperatures are predicted to fall below freezing, or (iii) for very short periods of time for the express purpose of adjusting or repairing an irrigation system; (d) refrain from watering or irrigating of any lawn, landscape or other vegetated area with potable water using a landscape irrigation system or watering device that is not continuously attended unless it is limited to no more than fifteen minutes watering per day per station, although this time limitation can be extended for (i) landscape irrigation systems that exclusively use very low flow drip irrigation systems when no emitter produces more than two gallons of water per hour, or (ii) whether based controllers or stream rotor sprinklers that meet a 70% efficiency, provided, however, that over-watering is not permitted in any case; (e) adjust and operate all landscape irrigation systems in a manner which will maximize irrigation efficiency and avoid over watering or watering of hardscape and the resulting runoff; (f) refrain from watering or irrigating any lawn, landscape or other vegetated area that causes or allows excessive water flow or runoff onto an adjoining sidewalk, driveway, street, alley, gutter or ditch; (g) do not use decorative fountains unless they are equipped with a recycling system; (h) do not allow water to run while washing vehicles, instead use a bucket or similar container and/or a handheld hose equipped with a positive self-closing water shut-off device to avoid run off into gutters, streets or alleys; (i) when installing new landscaping, plant low-water demand trees and plants and do not incorporate non-functional turf areas; and (j) refrain from water during rain. (EMWD Ordinance No. 72.24(1)(a)-(j).)

Another notable feature of EMWD's Ordinance No. 72.24 is its enforcement of the agency's tiered rate structure based on water budgets that apply to single-family, multi-family and landscape accounts that receive water from EMWD's domestic water system. Under Ordinance 72.24, four tiers are used to encourage efficient water use by customer groups and discourage the wasteful types of water uses identified above in Section 1 of the Ordinance. EMWD's Tier 1 Rate applies to an indoor water budget that is based on the gallons of water needed per person, per day. The Tier 2 Rate applies to an outdoor water budget that is based on square footage of landscape, actually daily ET, and a conservation factors, where (i) the default conservation factor for meters installed prior to September 1, 2008, is 1.0; (ii) the default conservation factor for meters installed after September 1, 2008, is 0.80 unless a lower ET adjustment factor is specified in the current State of California Model Water Efficiency Landscape Ordinance or the County of Riverside Water Efficient Landscape Requirements Ordinance; and (iii) the conservation factor can be adjusted up to 1.25 for functional areas at the discretion of EMWD. The Tier 3 Rate is applied to excessive water use that is measured as a percentage of Tier 1 and Tier 2 budgets, where a significantly higher rate can be charged for such excessive use. The Tier 4 Rate is applied to wasteful water use that exceed the Tier 3 limits. This rate is extraordinarily higher to discourage waste. (EMWD Ordinance 72.24(2)(a)-(d).) These tiered rates are more specifically

set forth in EMWD Resolution 3352. Ordinance 72.24 also establishes a strict penalty structure for water runoff. (EMWD Ordinance 72.24(3)(a)-(b).)

In a press release dated April 9, 2009, EMWD announced that its first tiered-rate bills had been distributed. In February and March, shadow bills accompanied regular bills to give customers an idea how their bills would have fared under the tiered structure. With EMWD's traditional rate structure, water rates were set according to a single commodity rate, regardless of the volume used. Under the new structure, each of EMWD's residential customers were provided with water budgets designed to give them the water they need for both indoor and outdoor uses. Indoor water budgets are based on the number of residents in the household, each using 60 gallons per day. The default single family residential household budget is based on three people, and multifamily residential is two. This comprises Tier 1. Outdoor water budgets are set according to the property's estimated irrigated area, based on County parcel data (lot size) and GIS information (house footprint, garage/carport area and driveway). The default for irrigated areas is generally set at 3,000 square feet, or up to 6,000 square feet for large landscapes. The outdoor portion comprises Tier 2. Together, the indoor and outdoor tiers form a household's water budget. Unlike other one-size-fits-all tiered rate structures, EMWD's includes allowances for larger households and for weather so greater outdoor irrigation is included in the budget during the summer. As stated in the press release, the purpose of the tiered rate structure is not to force people to go without water, but to eliminate excessive or wasteful use. The shadow bills also confirmed that 80% of EMWD's customers kept within their first two tiers, their water budgets. If tiered rates had been in effect at that time, those customers would have paid 18% less than their fixed commodity rates. Increased budgets can be approved for changes in the number of people in a household, larger landscaping areas, increased needs for large animals, child care or for medical requirements. Justification can also be made for allowing swimming pools to be refilled once every five years.

As an addition water saving measure, Ordinance No. 72.24 establishes stringent requirements for new landscape meters. First, EMWD requires a separate dedicated meter for landscape areas greater than or equal to 3,000 square feet. Second, the Ordinance provides that the efficient use of water should be considered in the design of any new landscape area, where EMWD will calculate an Annual Maximum Allowable Water Budget (AMAWB) for customers that request a new account using the following limitations: (i) the AMAWB will be calculated using the area's reference ET, the size of the landscaped area, and a conservation factor; (ii) for non-functional areas (landscape areas primarily used for aesthetic purposes, such as front yards, median strips, and parkways), a conservation factor of 0.80 will be used unless a lower factor for adjusting ET is specified in the current State of California Model Water Efficiency Landscape Ordinance or the County of Riverside Water Efficient Landscape Requirements Ordinance; (iii) for functional areas (landscape areas that serve as a surface for high traffic activities, such as playing a sport or

group gatherings), a conservation factor of 1.25 will be used at the discretion of EMWD; (iv) reference ET is given in inches per year, may vary by areas across EMWD, and will be established by EMWD; and (v) the AMAWB will be used to estimate outdoor water used, where the actual outdoor water budget applied to the account will be based on actual daily ET. Third, prior to the issuance of a landscape meter, the new customer shall calculate a water budget for each landscaped area, which budget cannot exceed the AMAWB limits calculated by EMWD. (EMWD Ordinance 72.24(4)(a)-(c).)

In addition to the foregoing, EMWD has also adopted a Water Shortage Contingency Plan (“WSCP”) as part of its UWMP to address circumstances of drought, supply reductions, failure of water distribution systems or other emergency situations. (See, EMWD 2005 UWMP, Appendix D.) In fact, on March 5, 2009, EMWD adopted Ordinance No. 117.2 to amend its WSCP and more aggressively regulate the use of non-essential potable water during shortage and extreme shortage level conditions. Ordinance No. 117.2 expressly provides that its purposes is to help conserve available water supplies, protect the integrity of water supply infrastructure, and to help implement EMWD’s contingency plan for times of drought and water supply shortages. (EMWD Ordinance 117.2, Section I.) Another stated purpose of the Ordinance is to achieve coordination and implementation of MWD’s WSAP (see discussion above). (Id., Section III.) The water shortage contingency measures of Ordinance 117.2 apply to all persons, customers and properties within EMWD that utilize potable water and are implemented depending on the declared water supply condition as follows: Stage 1 exists when water deficiencies are predicted to or actually range between 0 and less than 5% of available supply and/or capacity; Stage 2 exists when water deficiencies are predicted to or actually range from 5% up to 10% of available supply and/or capacity; Stage 3 exists when water deficiencies are predicted to or actually range from 10% up to 15% of available supply and/or capacity; Stage 4 exists when water deficiencies are predicted to or actually range from 15 to 25% of available supply and/or capacity and storage is not recovering; Stage 5 exists when water deficiencies are predicted to or actually range from 25 to 35% of available supply and/or capacity and storage is not recovering; Stage 6 exists when water deficiencies are predicted to or actually range from 35 to 50% of available supply and/or capacity and storage is not recovering; Stage 7 exists when water deficiencies are predicted to or actually exceed 50% of available supply and/or capacity and storage is not recovering. (EMWD Ordinance 117.2, Section VII.)

Under any such stage, EMWD may employ any or all of the following public notification procedures: (a) notify the general public and influential local decision-makers about existing water supply conditions, actions to be taken, what customer involvement is intended to achieve, and how actions are to be implemented; (b) the public at large will be informed of the existing water supply conditions and what responses are needed, information that can be disseminated through billing inserts, special mailings, telephone contact, email, roadway signage, water

conservation booths, speaker engagements, community association meetings, newsletters, and other public education programming; (c) all available forms of media should be employed, including public service announcements on radio and television, as well as press coverage in local newspapers; and (d) posting all pertinent information on EMWD's website.

During a Stage 1 shortage, residential and potable landscape customers, as well as commercial, industrial and institutional ("CII") users, are encouraged to achieve a voluntary 10% reduction in water use by implementing the above mentioned requirements of EMWD's Water Use Efficiency Ordinance (Ordinance 72.24). A voluntary 5% reduction in water use is imposed on agricultural use. During Stage 2 conditions, all water users are required on a mandatory basis to comply with Ordinance 72.24 water saving measures to avoid the assessment of penalties. A mandatory 5% reduction in water use is imposed on agricultural use.

During Stage 3 conditions, household, potable landscape, and CII customers are required to achieve a 25% reduction in outdoor use and elimination of wasteful water use. In addition, the following restrictions apply: (1) watering or irrigating of lawn, landscape or other vegetated areas with sprinklers are subject to (i) watering only three days per week from June through August, (ii) two days per week in September, October and March through May, and (iii) one day per week November through February; (2) all leaks, breaks or other malfunctions in the water user's plumbing or distribution system must be repaired within 72 hours; (3) refrain from filling or re-filling of ornamental lakes or ponds; (4) refrain from using potable water to wash or clean a vehicle, including but not limited to, any automobile, truck, van, bus, motorcycle, boat or trailer, whether motorized or not; and (5) maintain existing water levels on swimming pools or outdoor spas. Agricultural customers are required to achieve a 10% reduction in water use.

During Stage 4 conditions, household, potable landscape, and CII customers are required to achieve a 50% reduction in outdoor water use and eliminate wasteful water use. In addition to the Stage 3 requirements set forth above, further restrictions can be used to avoid water use penalties, including: (1) watering or irrigating of lawn, landscape or other vegetated areas with sprinklers are subject to (i) watering only two days per week from June through August and (ii) one day per week from September through May. Agricultural customers are required to achieve a 15% reduction in water use. During Stage 5 conditions, all customers are required to achieve a 50% reduction in outdoor water use in addition to Stage 4 restrictions, and residential and potable landscape customers must eliminate water use in excess of 15% above their total indoor and outdoor water budgets. Agricultural customers are required to achieve a 25% reduction in water use. During Stage 6 conditions, all customers are required to achieve a 50% reduction in outdoor water use in addition to Stage 4 restrictions, and residential and potable landscape customers must eliminate water use in excess of their total indoor and outdoor water budgets. Agricultural customers are required to achieve a 35% reduction in water use. During Stage 7 conditions, residential and potable landscape customers are required to eliminate outdoor water

use except for purposes of health and safety and avoid exceeding indoor water budgets. CII customers are required to eliminate outdoor water use except for purposes of health and safety. Agricultural customers are required to achieve a 50% reduction in water use. (EMWD Ordinance 117.2, Sections IX–XI.)

As indicated by Ordinance No. 117.2, EMWD's implementation of water budgets and tier rate structures is intended to avoid the need for actually rationing community water supplies and preserve some latitude of choice with respect to how much potable water individual customers will use and how much customers are willing to pay for that water. (EMWD Ordinance 117.2, Section XII.) EMWD's approach and response to MWD's WSAP seeks to change the manner in which water is used within the agency, but it does not seek to physically curtail existing water deliveries or discourage new development. Recently, EMWD was declared to be in a Stage 1 water shortage condition where, as indicated above, all residential, potable landscape, and CII customers were encouraged to achieve a voluntary 10% reduction in water use by implementing the above mentioned requirements of EMWD's Water Use Efficiency Ordinance (Ordinance 72.24). On June 17, 2009, EMWD adopted Resolution No. 4918 to approve and authorize the declaration of Stage 2 conditions. The discussion above shows that during Stage 2 conditions, all water users are required on a mandatory basis to comply with Ordinance 72.24 water saving measures to avoid the assessment of penalties for wasteful uses of water.

Significance Criteria

9. *Would the project have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?*

Impacts

As previously indicated, EMWD provides an average of approximately 110 million gallons per day to consumers and other water agencies. Approximately 80% of the EMWD potable water supply consists of imported water from the Metropolitan Water District of Southern California (MWD), with additional water supply obtained from local groundwater basins and recycled water produced by five regional water reclamation facilities. Water supply for the City and surrounding region is predominantly obtained through MWD from the State Water Project which conveys most water resources from Northern California and is supplemented by water delivered via the Colorado River Aqueduct. Additionally, the EMWD has developed a 3,000 acre feet per year seasonal storage demonstration program in which untreated State Water Project water is purchased from MWD during years of surplus which is then used to recharge local groundwater basins later to be used in-lieu of imported water. The seasonal storage program results in economic and resource management benefits for both the EMWD and MWD.

As a member agency that receives 80% of its water supply from MWD, the EMWD relies on MWD's ability to provide adequate water supply to meet existing and future demands to assess EMWD's ability to meet the demands of its specific service area. The Water Supply Assessment Report prepared by EMWD for the proposed Villages of San Jacinto Specific Plan, dated December 15, 2004, indicates that in March 2003 MWD prepared a Report on MWD's Water Supplies which finds that with existing and planned water supplies MWD will be able to provide 100% of its member agencies' project demand through the year 2030, including during periods of repeated drought conditions. In addition to the findings for adequate water supply through 2030 of MWD's Report on MWD's Water Supplies, EMWD's Water Supply Assessment Report relies on additional findings of 100% water supply reliability through 2025 provided in MWD's Update to the Integrated Resources Plan, dated July 13, 2004, which considers various changed conditions of Southern California including projections of demographic and economic information obtained from regional planning agencies, the Southern California Association of Governments (SCAG) and San Diego Association of Governments (SANDAG).

Eastern Municipal Water District (EMWD) prepared and adopted an Urban Water Management Plan (UWMP) pursuant to the requirements of the California Urban Water Management Planning Act. The most recent UWMP was approved by the EMWD Board of Directors on December 21, 2005. The UWMP describes how EMWD will address urban water demands and the efficient use of urban water supplies for a 5-year period and includes a discussion of the District's existing and planned water demand management measures, and the methods by which proposed measures will be implemented during the plan period. The Water Supply Assessment Report prepared by EMWD for the proposed development evaluates the estimated project water demand in relation to anticipated date of full build-out of the development and whether the anticipated demand will remain within the limits of the UWMP for the District.

EMWD's water supply assessment for the proposed Villages of San Jacinto initially assumed a maximum residential build out of 2,022 units. The assessment, therefore, provides a conservative estimate of projected water demand for the proposed residential use that would not exceed 1,016 units (or 1,329 units which includes 313 units should the school site be developed with residential uses). Therefore, the projected water demand is a worst-case estimate that would occur. According to the Water Supply Assessment Report, the proposed development at full build-out of the Villages of San Jacinto would result in an average projected water demand of 1,620 acre-feet/year. The assessment assumes a 4-year build out period with an initial water demand of 405 acre-feet per year in 2007, and the total projected water demand of 1,620 acre-feet/year occurring in 2011. The Water Supply Assessment Report indicates that the total projected water demand for the proposed development would remain within the limits of the projected demand of the District's current UWMP.

The Water Supply Assessment Report further indicates that, because EMWD is depending on MWD to supply water to meet future demand, and MWD has projected growth in its service area using anticipated growth information provided by SCAG, EMWD has concluded that it will be able to meet the projected water demand of the proposed development as well as existing and future uses beyond 2025. In addition, EMWD has concluded that it will be able to meet future water demand for the next 20 years in the event of drought given that MWD does not place restrictions on imported water resources on member agencies, and given that MWD has found that, based on water demand determined by regional growth projections, it would be able to meet all member agencies' projected supplemental demand with existing and planned water supplies through 2030 even with the occurrence of repeat drought conditions. A letter from EMWD dated May 11, 2009, confirms their previous conclusions in the December 15, 2004, Water Supply Assessment Report. Therefore, potential impacts associated water supply insufficiencies are considered less than significant.

The existing City water facilities and infrastructure that would serve the Villages of San Jacinto include a 12-inch water line that occurs within the Sanderson Avenue right-of-way just south of the project site. Extension of a 16-inch water line along the Sanderson right-of-way to Ramona Boulevard is currently underway. These existing facilities have sufficient capacity to serve the maximum level of development permitted under the Specific Plan to the point of connection/s that would be required to distribute water throughout the Specific Plan area. A new water distribution system would connect to the Sanderson Avenue line via 12-inch pipelines and would distribute potable water throughout the development area primarily via 8-inch lines within the proposed internal street network (see *Figure 5.12-3, Master Water Plan*).

The Specific Plan identifies the following conditions for development in the Villages of San Jacinto:

- All water and sewer lines will be designed per the Eastern Municipal Water District's Water and Sewer System Planning and Design Criteria dated July 2, 2007, and September 1, 2006, respectively.
- The infrastructure system and phasing shall be designed and installed consistent with the City of San Jacinto Engineering Department requirements.
- The Eastern Municipal Water District will manage the development of infrastructure for the project area.
- Water and sewer facilities shall be installed in accordance with the requirements and specifications of the San Jacinto Engineering Department and the Riverside County Health Department.

Based on a worst case scenario assuming the proposed high school is built and a total of 1,016 homes are built (the school would result in higher water consumption than the 313 dwelling units that would replace the school), the total projected water demand is 853,640 gallons per day (gpd) for the proposed development (based on factors from RBF Consulting, November 9, 2005). This demand is expected to remain within the limits of the District's projected regional demand as outlined in the December 15, 2004, Water Supply Assessment for the project and affirmed by the May 11, 2009, letter from EMWD. The proposed Specific Plan policies require that a written agreement with EMWD be executed which states that the provision of services shall be available prior to the recordation of any tract maps. The Specific Plan policies further require that new water facility infrastructure be developed in accordance with the City Engineering Department and Riverside County Health Department, and development would be managed by EMWD. Therefore, all necessary infrastructure would be appropriately designed and constructed to serve the proposed development. Therefore, impacts related to water services would be less than significant.

Mitigation Measures

None.

Residual Impact/Level of Significance after Mitigation

The proposed Villages of San Jacinto Specific Plan includes development standards that would apply to all future build-out of the planning area which specifically includes development elements and/or policies and measures to ensure that adequate public facilities and services such as domestic water supply are provided in conjunction with build-out of the development. Therefore, impacts to domestic water supply systems and supplies would be less than significant.

5.12.9 Solid Waste and Recycling

Existing Conditions

CR&R Stanton Division provides solid waste and recycling management services for the City of San Jacinto. Solid waste disposal for the City of San Jacinto is directed to the Lamb Canyon Landfill which is owned and operated by the Riverside County Waste Management Department (RCWMD). The Landfill also services the Cities of Beaumont, Banning and Hemet, and the unincorporated areas of Pine Cove, Idyllwild, Cherry Valley, Cabazon, Homeland, Romoland and Winchester.

The Lamb Canyon Landfill is a Class III solid waste disposal site consisting of 1,088 acres of total landfill permit area. In December 2003, the California Integrated Waste Management Board approved a request by RCWMD for a Revised Full Solid Waste Facilities Permit and adopted a

Mitigated Negative Declaration to permit an increase in the overall capacity of the fill from 23,601,595 cubic yards to 34,292,000 cubic yards to accommodate the fill's projected design capacity for year 2023. In addition, the revised permit allowed for an increase in the amount of daily received waste from 1,900 tons per day to 3,000 tons per day to accommodate an anticipated five-year growth period of the service area (California Integrated Waste Management Board Resolution 2003-504, December 16–17, 2003).

The City is mandated by the California Integrated Waste Management Board (CIWMB) to divert 50% of its waste stream away from landfills through source reduction, recycling, and composting activities (AB939). Information obtained on the CIWMB website, indicates that the City of San Jacinto met the waste diversion standard with a 51% diversion rate as of the most recent available reporting year of 2006 (CIWMB, <http://www.ciwmb.ca.gov>, accessed on May 6, 2009).

Significance Criteria

10. *Would the project be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?*
11. *Would the project comply with federal, state, and local statutes and regulations related to solid waste?*

Impacts

Anticipated uses in the Villages of San Jacinto are typical of urban areas, and would not violate any federal, state, or local statutes or regulations related to solid waste.

As discussed previously, the Lamb Canyon Landfill, which is regulated by the CIWMB, approved a request by the RCWMD to permit an increase in the overall capacity of the fill from 23,601,595 cubic yards to 34,292,000 cubic yards to accommodate the fill's projected necessary design capacity to adequately serve residents of Riverside County through year 2023. The CIWMB also permitted an increase in the amount of daily received waste from 1,900 tons per day to 3,000 tons per day to accommodate an anticipated five-year growth period of the service area (California Integrated Waste Management Board Resolution 2003-504, December 16–17, 2003).

According to personnel of RCWMD, the department does not consider projected population and development growth rates of the service area to determine future waste generation. The fill capacity needed to meet future needs of the service area is due to various factors that affect the amount of solid waste that is actually received at the facility such as required waste diversion programs (AB 939) and construction/demolition materials associated with new development. Likewise, the County does not have a particular threshold to define a significant project-specific

impact to the solid waste system. The RCWMD, as an alternative, determines the landfill's estimated future capacity needs based on historical data that has documented an average 4% increase rate in waste disposal received by the fill (Ma, personal communication, December 3, 2004). Given the 4% growth rate of solid waste anticipated to be received by the landfill and the recent approved expansion of the fill to accommodate the anticipated growth rate for the service area through 2023, the proposed project would be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs.

Other factors to consider in evaluating the proposed project's potential impacts relative to waste generation include construction debris, recycling efforts, and potential hazardous waste generation. Because the project site is primarily vacant with the exception of a limited number of out buildings associated with current agricultural operations, development of the proposed project is not anticipated to result in an exceptionally large amount of construction waste generation that may otherwise result from large demolition activities of existing structures. Construction waste generation would be equivalent to that normally associated with new development and, therefore, would not substantially affect the landfill's capacity threshold to accommodate the service area. Therefore, potential impacts associated with solid waste generation and disposal is considered less than significant.

To ensure that the development of the proposed Specific Plan is maintained in compliance with the efforts of the City of San Jacinto to continue to meet the mandate of AB 393, a number of mitigation measures have been identified to facilitate appropriate waste generation minimization and recycling efforts, (see *Section 5.12.5, Mitigation Measures, Mitigation Measures 5.12-d through 5.12-f*).

Finally, CR&R Sanitary Service has indicated that it can serve future development in the Villages of San Jacinto area without the need to expand its Resource Recovery Center. Therefore, potential impacts associated with solid waste disposal services are considered less than significant.

Mitigation Measures

5.12-d Demolition and/or excess construction materials shall be separated on site for reuse/recycling or proper disposal (e.g., concrete asphalt). During grading and construction, separate bins for recycling of construction materials and brush shall be provided on site.

5.12-e Landscaping shall be designed and located to utilize drought tolerant species, minimize irrigation, and to reduce green waste generation.

5.12-f The developer shall develop and submit a Solid Waste Management Plan to be reviewed and approved by the City Public Works Solid Waste Division and Planning and Development, and shall include:

- Provision of space and/or bins for the storage of recyclable materials within the project site,
- Methods of waste collection,
- Information programs to future residents regarding disposal of hazardous wastes.

Residual Impact/Level of Significance after Mitigation

The proposed Villages of San Jacinto Specific Plan includes development standards that would apply to all future build-out of the planning area which specifically includes development elements and/or policies and measures to ensure that adequate solid waste facilities are provided in conjunction with build-out of the development. With implementation of the additional mitigation measures included above, impacts to solid waste facilities and providers would be less than significant.

5.13 HAZARDS/RISK OF UPSET

5.13.1 Introduction/Methodology

The focus of this section is to outline existing hazards present on site, regulatory guidelines related to hazard assessment and clean-up if necessary and how the proposed project may have an impact on identified hazards or create new hazards to the surrounding community once constructed.

The following analysis is based on the October 10, 2002, *Phase I Environmental Site Assessment Report* prepared by Gradient Engineers, Inc. This report is contained in *Appendix L* to this EIR. Methods used to survey and test the site are contained therein.

5.13.2 Existing Conditions

The Phase I Environmental Site Assessment reported one residential structure, one large warehouse, one small warehouse, a storage shed, two office trailers, three groundwater wells (one domestic, two irrigation), shelter areas for cows and equipment storage areas on site. A detention basin is located in the southwest corner of the site. As of a May 1, 2009, site visit, the only remaining structures were the abandoned residence which had deteriorated significantly from the time of the Phase I Environmental Site Assessment and shade structures associated with a former cattle operation (no cattle are currently present at the site). *Figure 5.13-1, Hazardous Materials Site Map* and *Figure 5.13-2, Hazardous Materials Detailed Site Map* show the location of each area described above.

On-Site Hazardous Material History

At the time of the survey for the Phase I Environmental Site Assessment, the project site was used as a sod farm and a heifer raising facility. Since 1949 (date of first available records), the property was used for agricultural purposes. In 1980, a heifer farm was established on site. By 1997, part of the property was converted into a sod farm. Quality Turf has leased a portion of the property for production of sod since 1997. Approximately twenty acres of the property has been leased for heifer raising activities since approximately 1978. However, the heifer raising facility was recently removed from the site, along with the manure which was converted to compost. The surrounding area consists of rural agricultural land uses. Agricultural land is located to the north and east while vacant land and a chicken ranch are located west of the project site. The San Jacinto Valley Regional Water Reclamation Facility is located to the south of the site.

One of the former land owners supplied the Phase I investigator with records detailing the removal of three Underground Storage Tanks (USTs). In 1999, two 1,000-gallon and one 10,000-gallon gasoline USTs were removed from the area southwest of the large warehouse. The

area where these tanks were formerly located was over-excavated and approximately 120 tons of contaminated soil transported off site for treatment.

Total petroleum hydrocarbons in the gas range (TPHg), benzene, toluene, ethylbenzene, xylenes and methyl tertiary butyl ether (MTBE). In October 2000, soil in this area of the property was retested for the above contaminants. In December 2000, a vapor extraction well was set up near the former tank locations to determine whether identifiable levels of petroleum hydrocarbons still existed. Contaminant level measurements of each sampling period are summarized in *Table 5.13-1, Historic UST Soil Contaminant Levels*.

**Table 5.13-1
Historic UST Soil Contaminant Levels**

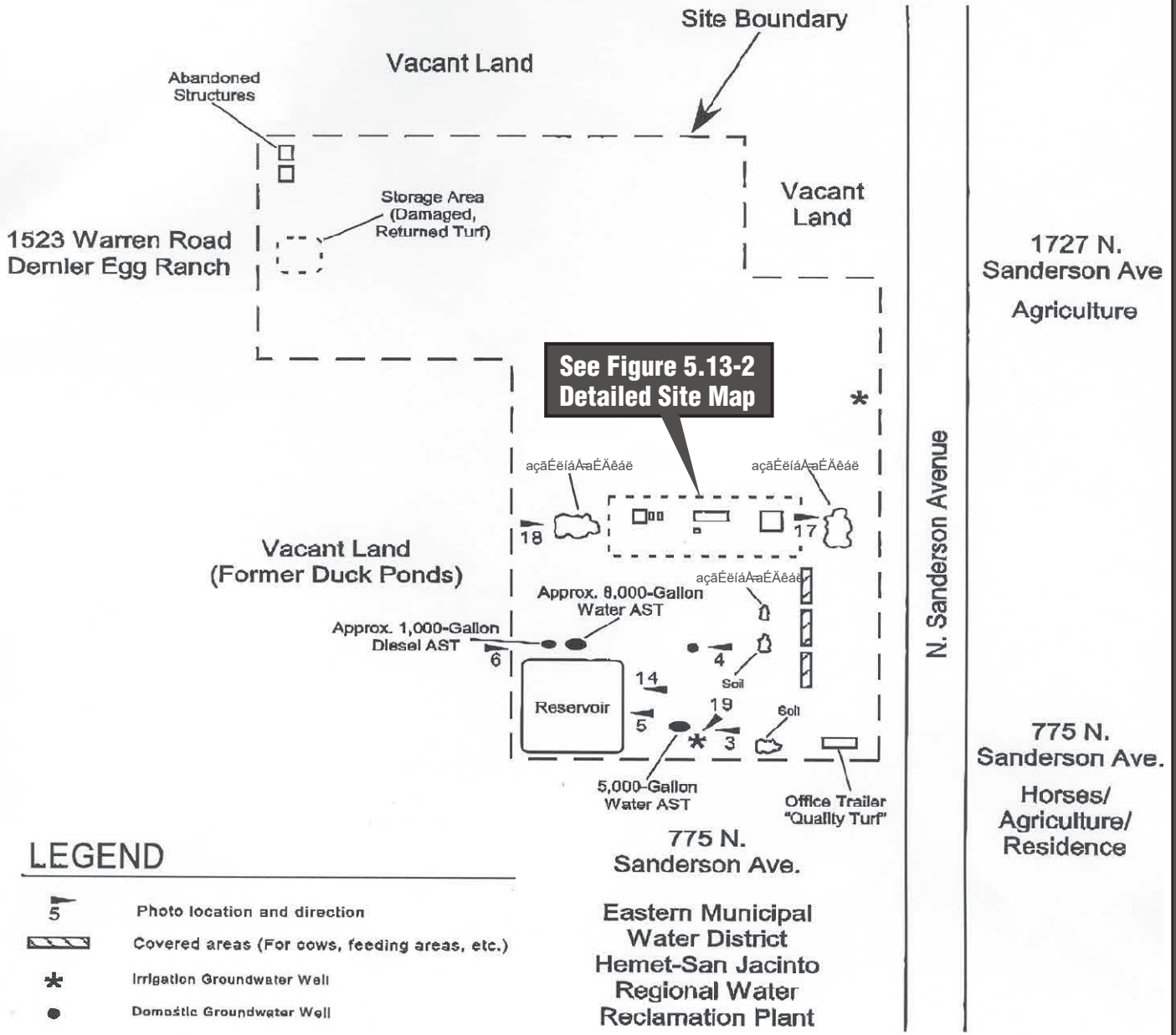
Petroleum Hydrocarbon Tested	Testing Period		
	1999 (during UST removal)	October 2000	December 2000 (vapor measurements)
TPH-g	5,290 mg/kg	2,710 mg/kg	Significant levels not detected
Benzene	36.8 mg/kg	Not Measured	Significant levels not detected
Toluene	638 mg/kg	131 mg/kg	Significant levels not detected
Ethylbenzene	200 mg/kg	Not Measured	Significant levels not detected
Xylenes	352 mg/kg	486 mg/kg	Significant levels not detected
MTBE	377 mg/kg	169 mg/kg	Significant levels not detected

SOURCE: Gradient Engineers Inc, October 2002, p. 5.





Groundwater wells were also drilled to determine the depth of groundwater, and if appropriate, measure the level of contaminants. Groundwater was not encountered at 70 feet below ground surface and was expected to exist approximately 120 feet below ground surface. In December 2000, the Regional Water Quality Control Board recognized that the lack of identifiable vapors from the vapor test well indicated that remaining soil in the immediate area would not pose a threat to groundwater resources.

On December 26, 2001, the RWQCB issued a case closure summary and “no further action” letter for the previous underground storage tank issue. That said, the letter’s case closure summary states “corrective action should be reviewed if the land use changes.”

A review of aerial photographs indicates that a windmill was historically located at the northwest corner of the site.



LEGEND

-  Photo location and direction
-  Covered areas (For cows, feeding areas, etc.)
-  Irrigation Groundwater Well
-  Domestic Groundwater Well

SITE MAP
 APN 431-020-005
 APN 431-020-006
 APN 431-020-015

SOURCE: GRADIENT ENGINEERS, INC., OCTOBER 2002

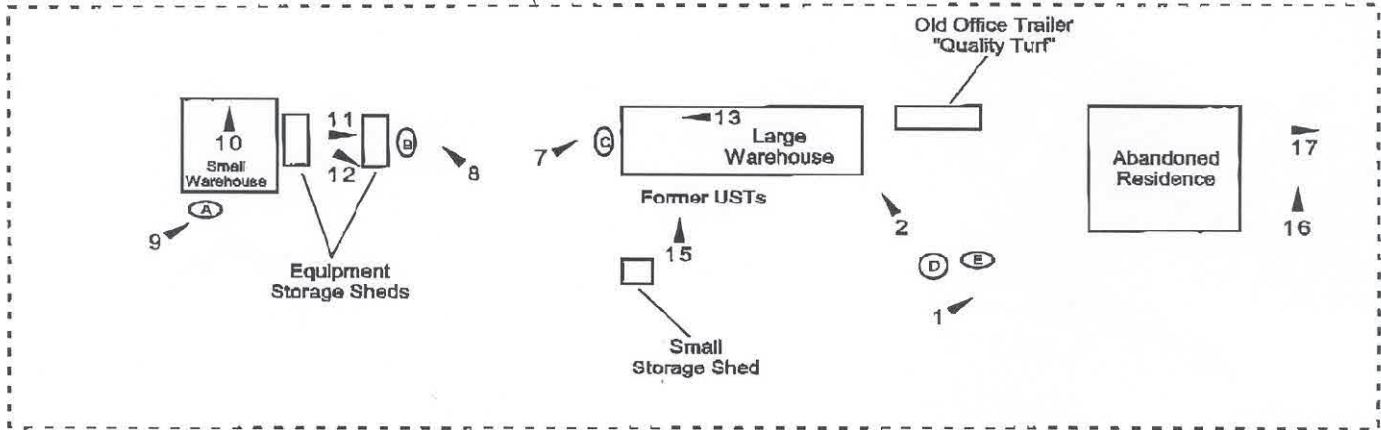


Villages of San Jacinto EIR
Hazardous Materials Site Map

FIGURE 5.13-1

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**Detailed Area from
Figure 5.13-1**



LEGEND

- 5 Photo location and direction
- A 500-Gallon Waste Oil AST
- B Empty 8,000-Gallon AST (Formerly contained diesel fuel)
- C 6,500-Gallon Diesel Fuel AST
- D 10-15,000-Gallon Water AST
- E 1,500-Gallon Water AST

DETAILED SITE MAP

APN 431-020-005
 APN 431-020-006
 APN 431-020-015

SOURCE: GRADIENT ENGINEERS, INC., OCTOBER 2002



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On-Site Hazardous Material Current Presence

As indicated on *Figure 5.13-1* and *5.13-2*, in addition to the structures present on the site, the site reconnaissance noted one 5,000-gallon, one 8,000-gallon, and one 15,000-gallon tank. One 1,500-gallon aboveground water storage tank was also observed. Three diesel fuel above ground storage tanks were also observed on site. Stained and discolored soil was observed beneath the diesel tanks.

Mr. Ralph Daily, manager of the Quality Turf Farm operation, provided a list of hazardous chemicals used for sod farm operations. These chemicals include diesel fuel, waste oil, drained used oil filters, pesticides and herbicides, oil and hydraulic fluids. Oily staining was observed on the concrete pads on the equipment associated with the groundwater irrigation well located east of the reservoir. The floor within the equipment shed was observed to be stained with an oily substance beneath the three 55-gallon drums. The ground beneath the floor was not accessible/observable during the Phase I site reconnaissance.

Visual evidence of Polychlorinated Biphenyls (PCBs) was not observed on site during the Phase I Environmental Site Assessment visit, however, transformers were observed on poles throughout the property. Staining was not observed beneath these transformers.

Petroleum stained soil was observed beneath the diesel above ground storage tank located northwest of the reservoir, near the irrigation groundwater well located southeast of the reservoir, and on the floor of the equipment shed, beneath three oil containing 55-gallon drums.

Debris, including old equipment, water heaters, trash, etc., was observed in several piles throughout the site (see *Figure 5.13-1*, "cultural debris"). Several mounds of soil were observed on site. According to Mr. Daily, the soil piles were generated from on-site activities and were piled as such for storage.

Two septic systems are located on site. One is located near the residential structures, its exact location unknown and the other northeast of the larger warehouse. One existing reservoir is located on site. This reservoir contains reclaimed water from the nearby San Jacinto Valley Regional Water Reclamation Facility and is used for sod farm irrigation. Historic aerial photographs document previous reservoirs, however during the Phase I Environmental Site Assessment, these reservoirs were no longer located on the property.

Three groundwater wells are located on site. One is used for domestic water while the other two are used for irrigation. According to Mr. Daily, the depth of the domestic water well is approximately 150 feet below ground surface while the irrigation wells range from 300 to 400 feet below ground surface. Oil, gas production or groundwater monitoring wells were not

observed or reported at or near the site. The vapor extraction well noted above was abandoned in 2002.

An asbestos building material and lead-based paint assessments were not performed for the project site.

Off-Site Hazardous Material History/Presence

A search on the First Search Report Environmental Database Report System was conducted to determine presence of any nearby hazards outside of the property limit boundaries. The following databases were searched: Federal National Priorities List (NPL), Federal Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS), Federal Resource Conservation Recovery Act (RCRA) Notifiers List, Emergency Response Notification System (ERNS), Toxic Release Inventory System (TRIS), Department of Toxic Substances Control Sites (CALSTATES), Solid Waste Landfill Facilities, Underground Storage Tank (UST) sites, Leaking Underground Storage Tank (LUST) sites, and unmapped listings. A description of each list's content is included in Section 4.1.2 of the Phase I Environmental Site Assessment included as *Appendix L* to this EIR.

The above regulatory database lists were reviewed for cases pertaining to leaking USTs and ASTs, hazardous waste sites and abandoned sites within the specified radii of standards established by the American Society for Testing and Materials (ASTM). The First Search Report did not indicate the presence of any facilities that appear to represent a potential source of migration of hazardous substances to soil or groundwater beneath the proposed project site.

The site's location on several local databases was also searched. The following local databases were searched: Riverside County Department of Environmental Health, Riverside County Fire Department, California Regional Water Quality Control Board (Santa Ana Region), Department of Toxic Substances Control and South Coast Air Quality Management District.

In 1990, the State of California conducted a radon survey across the state. The results of the survey indicate that the testing area within which Riverside County is located, is below the U.S. EPA radon action level.

5.13.3 Significance Criteria

Based on the criteria identified in Appendix G of the CEQA Guidelines, the proposed project would have a significant impact on hazards/risk of upset if it:

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

2. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?
3. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances or waste within one-quarter mile of an existing or proposed school?
4. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?
5. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?
6. For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?
7. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?
8. Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

5.13.4 Impacts

Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Construction of the proposed project would involve the transport of gasoline and other potentially hazardous material to the project site for the sole purpose of equipment fueling. However, once project construction is complete, the transport, use or disposal of hazardous materials would be limited to household cleaning products, landscaping chemicals and fertilizers, and other substances associated with residential and recreation (park) uses and such items that may be available for resale in future commercial uses. Therefore, significant impacts are not anticipated to occur.

Would the project create a significant hazard to the public or environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Hazardous materials potentially found at the site are related to the historic use of fertilizers, herbicides and pesticides; potential methane production related to former cattle feed lot; petroleum residues; household debris; and asbestos in older buildings.

Due to the historic use of approximately 20 acres of the property as a heifer raising farm, the presence of manure may result in significant environmental impacts related to methane gas exposure. In order to reduce potential impacts to a level below significance, mitigation is provided (see *Section 5.13.5, Mitigation Measures, Mitigation Measure 5.13-a*).

As indicated in *Section 5.13.3*, the vapor extraction test well installed in December 2000 to monitor residual contaminants left from the previous underground storage tanks did not indicate a significant presence of petroleum hydrocarbons in the soil. Any remnant petroleum hydrocarbons remaining in the soil are not extensive enough to pose a threat to nearby groundwater. The issuance of the Regional Water Quality Control Board's "no further action" letter indicates that hazardous materials previously present on the site have been removed to a level that no longer poses a threat to the environment. Therefore, while the project site contains historic environmental hazards, these hazards have been removed and would no longer pose significant health risks to the public or environment. That said, the Regional Water Quality Control Board and Riverside County Department of Health Services will be notified of the change in use and regulatory procedures may be required to ensure that the site is safe for reuse (see *Section 5.13.5, Mitigation Measures, Mitigation Measure 5.13-b*).

Historic windmills were often powered by diesel fuel. The diesel fuel source was often stored in underground storage tanks. During the Phase I Site Assessment, diesel storage tanks were not noted nor did they appear on federal or state databases within the vicinity of the old windmill. That said, often underground storage tanks are unreported and therefore could be discovered during grading. If an underground storage tank or stained soil or soil with a petroleum hydrocarbon odor is uncovered, a potentially significant impact could occur. In order to reduce potential impacts related to undocumented underground storage tanks or contaminated soil, mitigation is provided (see *Section 5.13.5, Mitigation Measures, Mitigation Measure 5.13-c*).

According to Mr. Daily, when the sod is harvested, a portion of the soil is harvested along with the sod. Pesticides and herbicides are normally found in the upper one to two feet of soil, therefore, with the continual harvesting of the sod, it is unlikely that significant pesticide, herbicide or fertilizer residue remains in the soil or represent an environmental concern to development of the site. Early pesticide and/or herbicide use would have degraded into the soil

over the years and would also not result in an existing environmental concern. Furthermore, the types of pesticides/herbicides used for current sod operations are not an environmental concern.

Visual evidence of Polychlorinated Biphenyls (PCBs) was not observed on site during the Phase I Environmental Site Assessment visit, however, transformers were observed on poles throughout the property. Staining was not observed beneath these transformers. Therefore contamination from transformer activity on site is not expected. Therefore, a less than significant impact would occur.

Petroleum stained soil was observed beneath the diesel above ground storage tank located northwest of the reservoir, near the irrigation groundwater well located southwest of the reservoir and on the floor of the equipment shed, beneath three oil containing 55-gallon drums. In order to avoid potential exposure of the environment or the public to potential contaminants in these areas, mitigation is provided (see *Section 5.13.5, Mitigation Measures, Mitigation Measure 5.13-d*).

Debris, including old equipment, water heaters, trash, etc., was observed in several piles throughout the site. In order to avoid potential significant impacts related to improper disposal of debris piles, mitigation is provided (see *Section 5.13.5, Mitigation Measures, Mitigation Measure 5.13-e*).

Two septic systems are located on site. In order to reduce potential impacts related to biohazard contamination as a result of septic tank residue, mitigation is provided (see *Section 5.13.5, Mitigation Measures, Mitigation Measure 5.13-f*).

Once the project is developed, domestic water will come from imported water sources from Eastern Municipal Water District rather than on-site groundwater supplies. In order to close the three on-site groundwater wells, and any additional wells that are discovered during site development, without resulting in potentially significant impacts to the environment, namely local groundwater sources, mitigation is provided (see *Section 5.13.5, Mitigation Measures, Mitigation Measure 5.13-g*).

In 1990, the State of California conducted a radon survey across the state. The results of the survey indicate that the testing area within which Riverside County is located, is below the U.S. EPA radon action level. Therefore, the potential for elevated radon levels at the site appear to be low.

Due to the age of many on-site buildings, the potential for asbestos-laden material exists on site. In order to reduce any impacts related to asbestos hazards, mitigation is provided (see *Section 5.13.5, Mitigation Measures, Mitigation Measure 5.13-h*).

Due to the age of many on-site buildings, the potential for lead-based paint materials exists on site. In order to reduce any impacts related to lead-based paint hazards, mitigation is provided (see *Section 5.13.5, Mitigation Measures, Mitigation Measure 5.13-i*).

Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

There are no existing schools within one-quarter mile of the site, but the project includes a planning area for a potential high school. However, the project does not include any proposed land uses which would result in the release or handling of hazardous or acutely hazardous materials.

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

As indicated in the second impact response above, a number of hazardous conditions may exist on the project site due to historical uses. All of these potential impacts have been reduced to a less than significant level with recommended mitigation. As discussed above under Section 5.13.2, a search of federal databases was conducted to determine presence of any nearby hazards outside of the property limit boundaries which did not indicate the presence of any facilities that appear to represent a potential source of migration of hazardous substances to soil or groundwater beneath the proposed project site.

For a project within an airport land use plan, or where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area? For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

The project would not subject users to safety hazards associated with public or private airports, since no airports are located within two miles of the project site.

Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

In order to reduce the potential for construction traffic conflicts which may include emergency evacuation plans, a traffic control plan shall be developed to the satisfaction of the City Engineer, as a standard condition of the project.

Would the project expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

The project site is not located adjacent to wildland areas. The project site is surrounded by mainly by agricultural land uses, scattered residential and the water reclamation facility located to the south. As such, the project would not expose people or structures to a significant risk of loss, injury or death involving wildland fires.

5.13.5 Mitigation Measures

5.13-a In order to ensure that methane hazards do not exist on the 20 acre portion of the site formerly used for heifer raising activities, the Riverside County's Methane Investigation Protocol shall be followed during and after site preparation. After grading of the 20 acres, methane gas sampling and any associated mitigation mechanism installation shall occur in accordance with the most recent Riverside County Department of Environmental Health protocols.

5.13-b The Regional Water Quality Control Board and Riverside County Department of Health Services shall be notified of potential site reuse in accordance with the December 26, 2001 "no further action" letter provided for the remediated leaking underground storage tanks. These agencies may require additional processing or testing depending on the ultimate reuse of the specific area contaminated. In order to ensure that regulatory compliance has been met, on-site soils shall be tested prior to grading to determine the presence of contaminants. Testing results will help determine if permissible levels of contaminants have been exceeded. If levels have been exceeded, impacted soils shall be remediated in accordance with Riverside County Department of Health Service protocol.

5.13-c The former windmill site shall be flagged prior to site grading. During site grading near the former windmill site, a qualified hazardous materials specialist shall monitor grading activities. If an underground storage tank or petroleum hydrocarbon odor-laden soil is uncovered near the old windmill site, grading and site work shall cease and the Regional Water Quality Control Board and Riverside County Department of Health Services notified. A remediation plan shall be developed to ensure that all contaminated soil and structures are removed, handled and disposed of in accordance with existing state and local regulations. Sampling in the area of impacted soils shall continue until contaminant levels reach an acceptable risk.

5.13-d In order to mitigate for potential hazards associated with petroleum stained soil beneath diesel storage tanks and on the floor of the equipment shed beneath 55-gallon oil storing drums, collection of surface and near surface samples by a qualified hazardous materials

specialist must occur. Following removal of the equipment shed, observations will be made for any stained soil beneath the shed. If stained areas are observed, surface and near surface samples shall be collected. Testing for contaminant levels must occur and an assessment of significance under state and local hazardous material regulations must follow. Once contaminant levels are determined, the Regional Water Quality Control Board and Riverside County Department of Environmental Health must be contacted to determine the proper mitigation method prior to site redevelopment. Any soil and other materials contaminated with hazardous materials may be considered hazardous waste and therefore must be disposed of in accordance with federal, state and local regulations.

- 5.13-e** During removal of debris piles, a qualified hazardous materials specialist shall be on site. The hazardous materials specialist will conduct a site assessment of debris pile content and direct disposal accordingly. All waste products will be disposed of in accordance with state and local laws.
- 5.13-f** In order to mitigate for potential hazards associated with existing septic tanks on site, the construction contractor shall remove the tanks and residue material in accordance with Riverside County Department of Environmental Health protocol. The project applicant will then be required to provide proof of septic tank removal to the City prior to issuance of building permits.
- 5.13-g** In order to prevent groundwater contamination, the three on-site groundwater wells and vapor monitoring well, and any additional wells uncovered during site development, shall be abandoned and decommissioned in accordance with Regional Water Quality Control Board and Riverside County Department of Health protocols. The project applicant will be required to provide proof of well decommissioning to the City prior to issuance of building permits.
- 5.13-h** Prior to demolition of on-site buildings, an asbestos survey shall be performed by a certified asbestos abatement contractor. Findings in the survey shall be used to determine what precautions shall be taken during demolition activities. If asbestos is present, removal shall occur in accordance with Riverside County Department of Environmental Health protocol.
- 5.13-i** All building material suspected to contain lead-based paint shall be tested prior to demolition. If lead-based paints are present, removal shall occur in accordance with Riverside County Department of Environmental Health protocol.

5.13.6 Residual Impacts/Level of Significance after Mitigation

Incorporation of the proposed mitigation measures would reduce any potential impacts to a level below significance.

SECTION 6.0 CUMULATIVE IMPACTS

6.1 INTRODUCTION/PURPOSE

In many cases, the impact of a single project may not be significant, but when combined with other projects, the "cumulative" impact may be significant. Section 15355 of the CEQA Guidelines defines "cumulative impacts" as two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts." CEQA Guidelines Section 15130(b) states that "the discussion [of cumulative impacts] need not provide as great of detail as is provided of the effects attributable to the project alone." Section 15130(b) further states that a cumulative impacts discussion should be guided by the standards of practicality and reasonableness.

Cumulative impacts can occur from the interactive effects of a single project. For example, the combination of noise and dust generated during construction activities can be additive and can have a greater impact than either noise or dust alone. However, substantial cumulative impacts more often result from the combined effect of past, present and future projects that are located in proximity to the project under review. For example, the wastewater treatment demand generated by a project may not be significant when analyzed alone, however, when analyzed in combination with the wastewater demands of approved or proposed projects, the wastewater demands may exceed the resource capabilities of the service agency, resulting in a significant cumulative impact. Therefore, it is important for a cumulative impacts analysis to be viewed over time and in conjunction with other related past, present and reasonably foreseeable future developments which may have impacts that might compound or interrelate with those of the project under review.

6.2 CUMULATIVE FORECASTING METHODOLOGY

Section 15130 (b)(1)(A) of the CEQA Guidelines allows for the preparation of a list of past, present, and reasonably anticipated future project as a viable method of determining cumulative impacts. This discussion utilizes that approach: an initial list and description of all related projects followed by a discussion of the effects that the proposed project may have on each environmental category of concern, such as traffic, noise, or biology. Consistent with CEQA, this discussion is guided by the standards of practicality and reasonableness.

6.3 LIST OF RELATED PROJECTS

This section of the analysis provides a list of past, present, and reasonably foreseeable future projects. Several development proposals, City projects and public infrastructure projects have been submitted for consideration or have been recently approved by local government agencies

in proximity to the proposed project that together with the proposed project would result in an increase in urban development/construction-related environmental impacts. To analyze cumulative impacts, the western San Jacinto area will serve as the study area which includes land along the western city limits to the general State Street area to the east (some projects east of State Street are included consistent with the traffic analysis as discussed below). Esplanade Avenue makes up the southern boundary and the northern city limits and areas adjacent to Ramona Expressway the northern boundary. The list of cumulative projects was compiled throughout the EIR preparation process (late 2004 to spring 2009). The existing list was updated in April 2009 in association with development of the most recent traffic report for the project (*Villages of San Jacinto Traffic Impact Analysis*, Urban Crossroads, April 24, 2009, included in *Appendix H* of this report). This list is similar to those contained in *Table 5.9-4, 2023 Cumulative Project Trip Generation*. However, some of the smaller projects and public infrastructure projects were not included in the traffic report. However, these projects have been included in the table below.

General project description information for each cumulatively considerable project is contained in *Table 6.0-1, Villages of San Jacinto Cumulative Projects List*. The location of each project is depicted on *Figure 6.0-1, Cumulative Projects*.

**Table 6.0-1
Villages of San Jacinto Cumulative Projects List**

Project Name	Map Indicator	Location	Status	Units/Square Footage	Reference
Urban Development Projects					
SP 1-01	1	west of Warren Road	in planning process (April 2009)	490 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project.
TR – 31037	2	west of Ramona Boulevard	in planning process (April 2009)	131 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 31282	2	west of Ramona Boulevard	in planning process (April 2009)	274 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 31154	2	west of Ramona Boulevard	in planning process (April 2009)	135 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 31900	2	west of Ramona Boulevard	in planning process (April 2009)	112 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 33072	2	west of Ramona Boulevard	in planning process (April 2009)	140 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 33138	2	west of Ramona Boulevard	in planning process (April 2009)	28 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
VTR – 31384	2	west of Ramona Boulevard	in planning process (April 2009)	48 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 33249	2	west of Ramona Boulevard	in planning process (April 2009)	25 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 34364	2	west of Ramona Boulevard	in planning process (April 2009)	8 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 30814	3	northeast corner of North Sanderson Avenue/Cottonwood Avenue Intersection	in planning process (April 2009)	155 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 30481	3	northeast corner of North Sanderson Avenue/Cottonwood Avenue Intersection	in planning process (April 2009)	126 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project

Table 6.0-1 (Continued)

Project Name	Map Indicator	Location	Status	Units/Square Footage	Reference
TR – 31555	3	northeast corner of North Sanderson Avenue/Cottonwood Avenue Intersection	in planning process (April 2009)	115 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 30813	3	northeast corner of North Sanderson Avenue/Cottonwood Avenue Intersection	in planning process (April 2009)	186 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 30335	3	northeast corner of North Sanderson Avenue/Cottonwood Avenue Intersection	in planning process (April 2009)	69 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 30944	3	northeast corner of North Sanderson Avenue/Cottonwood Avenue Intersection	in planning process (April 2009)	102 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
VTR – 31097	4	northwest corner of North State Street/Cottonwood Avenue Intersection	in planning process (April 2009)	214 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 31293	4	northwest corner of North State Street/Cottonwood Avenue Intersection	in planning process (April 2009)	100 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 29384	4	northwest corner of North State Street/Cottonwood Avenue Intersection	in planning process (April 2009)	39 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 31246	4	northwest corner of North State Street/Cottonwood Avenue Intersection	in planning process (April 2009)	128 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 30878	5	South of Cottonwood Avenue, east of Sanderson Avenue	in planning process (April 2009)	170 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 32250	6	South of Cottonwood Avenue, east of Sanderson Avenue	in planning process (April 2009)	53 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project

Table 6.0-1 (Continued)

Project Name	Map Indicator	Location	Status	Units/Square Footage	Reference
TR – 30559	6	South of Cottonwood Avenue, east of Sanderson Avenue	in planning process (April 2009)	20 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 31929	6	South of Cottonwood Avenue, east of Sanderson Avenue	in planning process (April 2009)	78 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
VPM 31281	7A	South of Ramona Expressway, north of project site	in planning process (April 2009)	500 TSF commercial 62.5 TSF industrial	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
PM 31522	7B	South of Ramona Expressway, north of project site	in planning process (April 2009)	200 TSF commercial 250 TSF industrial	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
Bahan Hopkins	7C	Northeast of intersection of Ramona Expressway, Sanderson Avenue	in planning process (April 2009)	1,100 TSF commercial	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
SJ 106, LLC	7D	Northeast of intersection of Ramona Expressway, Sanderson Avenue	in planning process (April 2009)	250 TSF commercial 321 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
Target Center SP-1-08	7E	southeast of intersection of Ramona Expressway, Sanderson Avenue	in planning process (April 2009)	771 TSF commercial	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
McCleish Group	7F	South of Ramona Expressway, north of project site	in planning process (April 2009)	200 TSF commercial	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 30603	8	north of Esplanade Avenue east of Lyon Avenue	in planning process (April 2009)	203 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 22665	8	west of North Sanderson Avenue immediately east of the northeast corner of the proposed project	in planning process (April 2009)	147 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 29917	9	East of State Street	in planning process (April 2009)	134 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 31794	9	East of State Street	in planning process (April 2009)	62 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 32518	9	East of State Street	in planning process (April 2009)	34 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project

Table 6.0-1 (Continued)

Project Name	Map Indicator	Location	Status	Units/Square Footage	Reference
TR – 31544	9	East of State Street	in planning process (April 2009)	135 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 29992	10	east of State Street, north of Blodgett Street	in planning process (April 2009)	30 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 30884	10	east of North Ramona Boulevard and west of Ramona Expressway	in planning process (April 2009)	14 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 33509	10	south of Cottonwood Avenue and east of Lyon Avenue	in planning process (April 2009)	37 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
VTR – 30484	11	East of State Street	in planning process (April 2009)	117 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 31566	11	East of State Street	in planning process (April 2009)	61 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 32053	12	East of State Street	in planning process (April 2009)	178 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 32053	12	East of State Street	in planning process (April 2009)	108 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 30644	13	East of State Street	in planning process (April 2009)	66 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 31035	13	East of State Street	in planning process (April 2009)	77 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 32376	13	East of State Street	in planning process (April 2009)	337 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 31886	14	North of Ramona Boulevard	in planning process (April 2009)	321 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 32843	14	North of Ramona Boulevard	in planning process (April 2009)	143 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
PM 30532	14	North of Ramona Boulevard	in planning process (April 2009)	2 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 32555	14	North of Ramona Boulevard	in planning process (April 2009)	12 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project

Table 6.0-1 (Continued)

Project Name	Map Indicator	Location	Status	Units/Square Footage	Reference
SP 1-03	15	West of Gilman Springs Road	in planning process (April 2009)	580 single-family residential units	Urban Crossroads. East of State Street April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 32080	15	West of Gilman Springs Road	in planning process (April 2009)	53 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 29341	15	West of Gilman Springs Road	in planning process (April 2009)	251 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 30597	16	Southwest of Sanderson Avenue and Cottonwood Avenue intersection	in planning process (April 2009)	116 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 31855	16	Southwest of Sanderson Avenue and Cottonwood Avenue intersection	in planning process (April 2009)	161 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 31855	17	East of State Street	in planning process (April 2009)	126 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 31855	17	East of State Street	in planning process (April 2009)	192 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
Kasbergen Haflinger Property	17	East of State Street	in planning process (April 2009)	147 single-family residential units 30 TSF commercial	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
SP 1-02	18	Northwest of Warren Road and Esplanade Avenue intersection	in planning process (April 2009)	613 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR – 30828	19	West of Sanderson Avenue, south of Cottonwood Avenue	in planning process (April 2009)	293 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR- 31544	20	East of Sanderson Avenue, south of Ramona Boulevard	in planning process (April 2009)	134 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TTM 32155	21	West of Sanderson Avenue, south of Cottonwood Avenue	in planning process (April 2009)	253 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR- 33408	22	East of Sanderson Avenue, south of Ramona Boulevard	in planning process (April 2009)	210 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project

Table 6.0-1 (Continued)

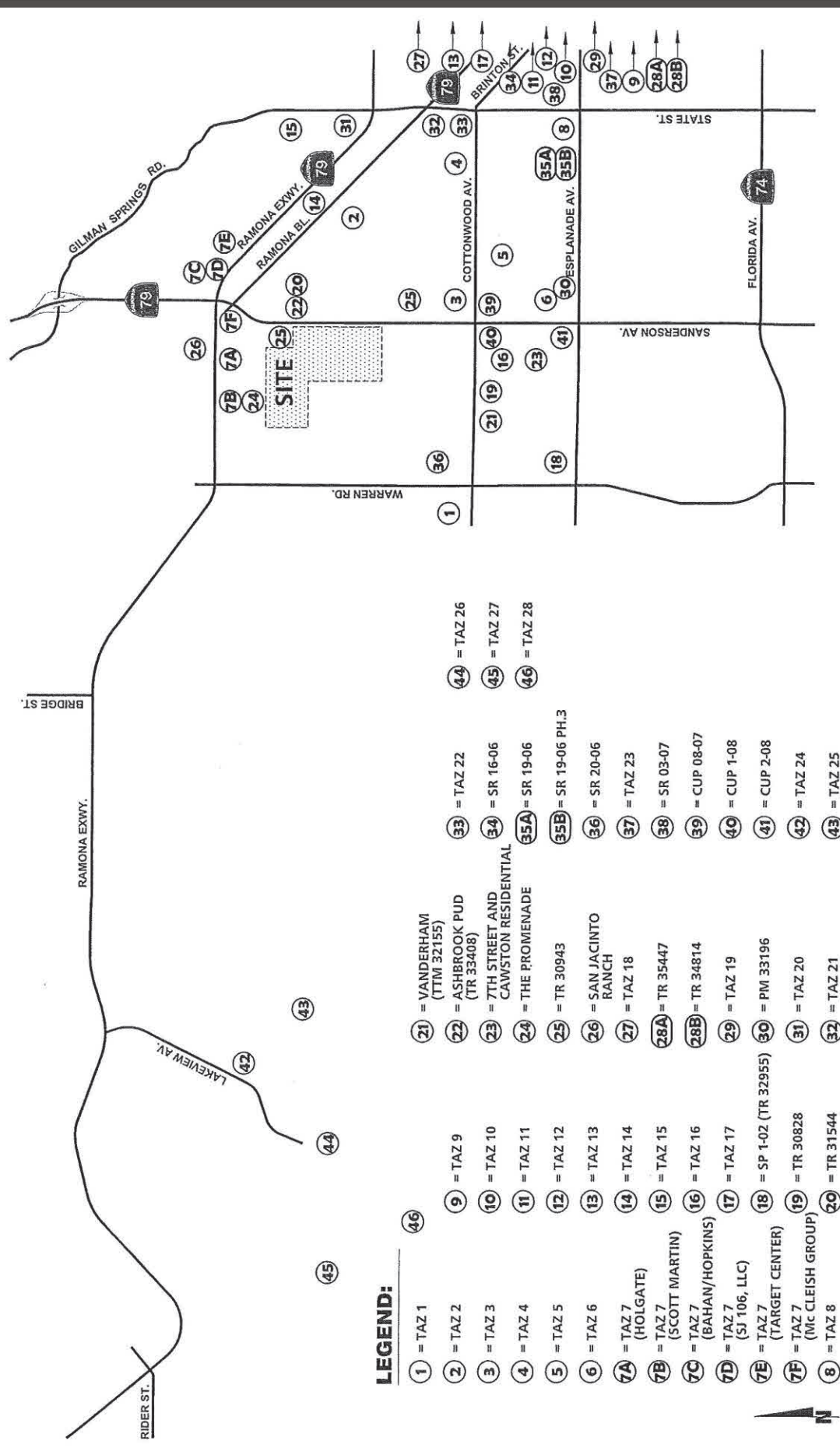
Project Name	Map Indicator	Location	Status	Units/Square Footage	Reference
Cawston Residential	23	West of Sanderson Avenue, south of Cottonwood Avenue	in planning process (April 2009)	128 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
The Promenade	24	Just north of project site south of Ramona Expressway	in planning process (April 2009)	600 Apartments 39 TSF office 40 TSF retail	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR- 30943	25	Northeast of project site west of Sanderson Avenue, south of Ramona Expressway	in planning process (April 2009)	210 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
SP 1-07	26	North of Ramona Expressway, north of project site	in planning process (April 2009)	228 single-family residential units 1,008 Condo residential units 174 TSF commercial 31 TSF office	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
PM 33196	30	Northeast of intersection of Sanderson Avenue and Esplanade Avenue.	in planning process (April 2009)	118 TSF commercial	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
SR 10-06	33	Northwest corner of State Street and Cottonwood Avenue intersection	in planning process (April 2009)	8.2 TSF Commercial	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
SR 04-07	33	Northwest corner of State Street and Cottonwood Avenue intersection	in planning process (April 2009)	21.5 TSF Commercial	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
SR 16-06	34	East of State Street	in planning process (April 2009)	12.2 TSF Medical Office	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
SR 19-06	35B	West of State Street, north of Esplanade Avenue	in planning process (April 2009)	74 TSF Medical Office	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
SR 20-06	36	Northeast of intersection of Warren Road and Cottonwood Avenue	in planning process (April 2009)	64 TSF General Office	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project

Table 6.0-1 (Continued)

Project Name	Map Indicator	Location	Status	Units/Square Footage	Reference
SR 03-07	38	East of State Street, north of Esplanade Avenue	in planning process (April 2009)	13.3 TSF Commercial	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
CUP 08-07	39	Southeast of intersection of Cottonwood Avenue and Sanderson Avenue	in planning process (April 2009)	171 TSF Commercial	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
CUP 1-08	40	Southwest of intersection of Cottonwood Avenue and Sanderson Avenue	in planning process (April 2009)	141 TSF Commercial	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
CUP 2-08	41	Northwest of intersection of Sanderson Avenue and Cottonwood Avenue	in planning process (April 2009)	134 TSF Commercial	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR-30915 TR-32165 TR-32764	42	East of Lakeview Avenue, south of Ramona Expressway	in planning process (April 2009)	419 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR-33177 TR-33178	43	East of Lakeview Avenue, south of Ramona Expressway	in planning process (April 2009)	33 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR-29315	45	West of Lakeview Avenue, north of Nuevo Road	in planning process (April 2009)	327 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
TR-31583	46	South of Nuevo Road	in planning process (April 2009)	171 single-family residential units	Urban Crossroads. April 2009. Traffic Analysis for Villages of San Jacinto Project
Public Infrastructure					
Eastern Municipal Water District – San Jacinto Valley Regional Water Reclamation Facility Agriculture Groundwater Exchange	Not on Map	South of proposed project limits east to San Jacinto River pump station and south to citrus fields.	Pending	construction of a pipeline and pump station to replace groundwater with up to 7,000 acre-feet of recycled water for citrus irrigation.	www.emwd.org

Table 6.0-1 (Continued)

Project Name	Map Indicator	Location	Status	Units/Square Footage	Reference
RCTC/Riverside County – SR 79 Realignment	Not on Map	Gilman Springs Road to Domenigoni Parkway	Draft EIR/EIS expected to be circulated late 2009 with construction expected to begin by 2011.	realignment of existing highway (linear facility)	www.rctc.org
RCTC/Riverside County – Mid County Parkway Project	Not on Map	Ramona Expressway from its intersection with SR 79 to Cajalco Road to its intersection with I-15	Draft EIR/EIS expected to be circulated late 2009 with construction expected to begin by 2012.	32-mile east-west limited access route connecting Corona with San Jacinto	www.rctc.org
Sanderson Avenue and Ramona Expwy. Intersection enhancements	Not on Map	Sanderson Avenue/Ramona Expwy. intersection	Scheduled construction: summer 2009	Intersection capacity enhancements and signal modification	San Jacinto, City of. 2008-2009 Capital Improvement Program
Sanderson Avenue/Cottonwood Avenue	Not on Map	Street widening and improvements	Scheduled construction fall/winter 2009	roadway improvements	San Jacinto, City of. 2008-2009 Capital Improvement Program
Kirby Street/Cottonwood Avenue Traffic Signal	Not on Map	Intersection of Kirby Street and Cottonwood Avenue	Pending	traffic signal installation	San Jacinto, City of. 2008-2009 Capital Improvement Program
Hewitt Street Storm Drain Line	Not on Map	Hewitt Street from Commonwealth Avenue to Park Avenue	In Design	storm drain pipeline (linear facility)	San Jacinto, City of. 2008-2009 Capital Improvement Program
Line G Flood Control project	Not on Map	De Anza Drive from Palm Avenue to Lyon Avenue	Pending	storm drain pipeline (linear facility)	San Jacinto, City of. 2008-2009 Capital Improvement Program
San Jacinto River Levee	Not on Map	From existing USACE levee to west of Sanderson Avenue	Construction Pending final engineering and environmental	roadway rehabilitation (linear facility)	San Jacinto, City of. 2008-2009 Capital Improvement Program



LEGEND:

- ① = TAZ 1
- ② = TAZ 2
- ③ = TAZ 3
- ④ = TAZ 4
- ⑤ = TAZ 5
- ⑥ = TAZ 6
- ⑦A = TAZ 7 (HOLGATE)
- ⑦B = TAZ 7 (SCOTT MARTIN)
- ⑦C = TAZ 7 (BAHAN/HOPKINS)
- ⑦D = TAZ 7 (SJ 106, LLC)
- ⑦E = TAZ 7 (TARGET CENTER)
- ⑦F = TAZ 7 (MC CLEISH GROUP)
- ⑧ = TAZ 8
- ⑨ = TAZ 9
- ⑩ = TAZ 10
- ⑪ = TAZ 11
- ⑫ = TAZ 12
- ⑬ = TAZ 13
- ⑭ = TAZ 14
- ⑮ = TAZ 15
- ⑯ = TAZ 16
- ⑰ = TAZ 17
- ⑱ = SP 1-02 (TR 32955)
- ⑲ = TR 30828 (MC CLEISH GROUP)
- ⑳ = TR 31544
- ㉑ = TAZ 18
- ㉒ = TAZ 19
- ㉓ = TAZ 20
- ㉔ = TAZ 21
- ㉕ = TAZ 22
- ㉖ = SR 16-06
- ㉗ = SR 19-06
- ㉘ = SR 19-06 PH.3
- ㉙ = SR 20-06
- ㉚ = TAZ 23
- ㉛ = SR 03-07
- ㉜ = CUP 08-07
- ㉝ = CUP 1-08
- ㉞ = CUP 2-08
- ㉟ = TAZ 24
- ㊱ = TAZ 25
- ㊲ = VANDERHAM (TIM 32155)
- ㊳ = ASHBROOK PUD (TR 33408)
- ㊴ = 7TH STREET AND CAWSTON RESIDENTIAL
- ㊵ = THE PROMENADE
- ㊶ = TR 30943
- ㊷ = SAN JACINTO RANCH
- ㊸ = TAZ 18
- ㊹ = TR 35447
- ㊺ = TR 34814
- ㊻ = TAZ 19
- ㊼ = SP 1-02 (TR 32955)
- ㊽ = TR 30828 (MC CLEISH GROUP)
- ㊾ = TR 31544
- ㊿ = TAZ 26
- ④④ = TAZ 26
- ④⑤ = TAZ 27
- ④⑥ = TAZ 28

SOURCE: URBAN CROSSROADS

FIGURE 6.0-1
Villages of San Jacinto EIR
Cumulative Projects

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6.4 IMPACTS TO ENVIRONMENTAL FACTORS

Land Use Planning and Zoning

This project, when combined with the others planned within the western portion of the City of San Jacinto, would result in a large increase in suburban land uses adjacent to existing agricultural land uses. However, this area will continue to convert to urban-type uses consistent with the General Plan, which would ultimately alleviate potential land use conflicts between existing agricultural uses and planned development. Therefore, the cumulative impact of land uses would not be incompatible with the surrounding mixture of land uses planned within the area. This portion of the City, when combined with the other projects outlined in *Table 6.0-1* would be consistent with the City of San Jacinto General Plan adopted on May 4, 2006, and the latest General Plan Land Use Map approved in February 2009 which reflects the future direction of land use form envisioned for this portion of the City. Analysis of individual projects as they are submitted to the City will ensure compatibility with applicable plans and policies.

Agricultural Resources

The proposed project would result in significant, unmitigable impacts to agricultural resources. When combined with the other surrounding projects which also involve conversion of agricultural resources into suburban uses, a significant decrease in agricultural land use within the City of San Jacinto would occur. In summary, the project, when combined with many of the cumulatively considerable projects listed in *Table 6.0-1*, would contribute to a significant, unmitigable cumulative impact to agricultural resources. As discussed in *Section 5.3, Agricultural Resources*, the City's General Plan EIR (January 2006) discusses a number of reasons mitigation for loss of agriculture is infeasible. Rising land costs to replace agricultural lands, increasing water costs, labor costs, urbanization and environmental regulations all contribute to ongoing conversion of farmland. Without property owner cooperation and substantial financial incentives, it is infeasible to provide permanent on or off-site mitigation to replace converted farmland.

Landform Alteration and Aesthetics

The proposed project will contribute to the gradual change in visual character of the Sanderson Avenue corridor and the western San Jacinto Valley. The project represents a transition from a rural and agricultural area to a landscape that can be characterized as suburban in nature. These visual changes will be most evident from Sanderson Avenue and other major roadways which have sweeping views of the project site. However, neither the project, nor cumulative development would represent a substantial degradation in visual quality of designated scenic resources such as the Lakeview Mountains or other unique topographic features or result in a substantial impediment to scenic views provided such development is consistent with planned

land uses in the vicinity of the project and with General Plan development and design guidelines. Therefore, cumulative impacts related to visual resources are not anticipated.

Biological Resources

Although the project will result in minimal direct impacts to biological resources, development of this project, combined with the others described above would contribute to the increase in human presence within the western San Jacinto Valley. Continued development within the western areas of the City would extend urban land uses into vacant areas characterized by natural and/or agriculturally utilized habitats that are used by the region's sensitive plant and wildlife species. That said, the project is consistent with the Western Riverside County MSHCP, which is, in effect, an attempt at a cumulative/big-picture approach to mitigating the impacts of increased urban development on the region's plant and wildlife species. Analysis of individual projects for consistency with the MSHCP will provide mitigation for biological resources, including payment of development fees to support implementation of the MSHCP and will reduce cumulative impacts to less-than-significant levels.

Cultural Resources

Any potentially significant cultural resource impacts associated with development on surrounding projects would be site-specific and can be mitigated on a project-by-project basis. Therefore, since individual projects would be fully mitigated, residual cumulative impacts to the region would not occur. Therefore, the cumulative effect when considering all these projects combined would result in a less than significant cumulative impact to cultural resources.

Geology/Soils

Most geology and soil hazards associated with development on surrounding projects would be site-specific and can be mitigated on a project-by-project basis. Such hazards include exposure of people or structures to rupture of an earthquake fault, liquefaction, landslides, unstable geologic units, and expansive soils. The individual project mitigation for these hazards will ensure that there are no residual cumulative impacts. There is potential for a cumulative impact of all related projects on soil erosion in the project area. However, the City of San Jacinto requires construction Best Management Practices which include soil stabilization and erosion control techniques. Therefore, no significant residual cumulative impacts related to geology and soils resources would occur.

Paleontological Resources

As with other cultural resources, all significant paleontological resources associated with this and other projects will be mitigated on a project-by-project basis. Because each project would be

required to fully mitigate for any potential paleontological resources, residual cumulative impacts to regional paleontological resources would not occur.

Water Quality and Hydrology

Runoff from project construction areas and parking lot and landscape irrigation systems will contribute to the incremental increase in urban runoff to the San Jacinto River system. However, compliance with Regional Water Quality Control Board requirements of attenuating all project drainage on site to ensure that post construction discharge does not exceed existing quantities, ensures that both a project-specific and cumulative increase to regional drainage (and therefore potential flooding of downstream systems) is avoided. Further, by ensuring that project mitigation measures (which are in the form of construction, design, and operational best management practices) are incorporated, any runoff does not result in a localized water quality contamination issue. Further, because all surrounding projects are regulated under the same City and Regional Water Quality Control Board standards, they too will be required to attenuate all drainage on site (to maintain pre development flow quantities) and incorporate water quality design features to prevent cumulative impacts to local drainage systems or water quality.

Further, although the City does not have control over it, a regional drainage master plan, referred to as the San Jacinto Master Drainage Plan (MDP) is being planned to provide a regional stormwater conveyance system for the western San Jacinto area. This regional drainage system will also help appropriately convey and/or attenuate drainage generated by future western San Jacinto urban development. This future facility would help with cumulative drainage issues in this region. However, as indicated above, the absence of this facility is not resulting in a project-specific or cumulative impact to drainage because all existing projects in the planning process are being required to attenuate all flows on site in the interim basis.

Transportation, Circulation and Access

Implementation of the mitigation measures included in *Section 5.9.5, Mitigation Measures*, would ensure that regional traffic conditions do not dip below an acceptable LOS (LOS D) for existing plus project conditions. However, without completion of the Mid County Parkway and SR-79 projects, the project would contribute to a cumulative significant impact. Mitigation proposed for this significant cumulative impact is infeasible due to exceedance of General Plan roadway criteria (i.e., triple left turn lanes at Warren Road and Ramona Expressway, and extensive improvements required along Sanderson Avenue) and the uncertainty of obtaining adequate right-of-way for such measures. Therefore, because the City can not guarantee that regional improvements would be implemented prior to completion of the project, a significant unmitigable cumulative traffic impact would occur. That said, it should be noted that the unacceptable LOS conditions would occur with or without the project under cumulative

conditions in the absence of the Mid County Parkway and SR-79 improvements. Significant cumulative impacts can not be mitigated; therefore, significant cumulative impacts would occur as a result of the proposed project and many other cumulatively considerable projects depicted on *Figure 6.0-1*.

Air Quality

Regional Air Quality

Implementation of the project would result in short-term impacts to air quality associated with construction and long-term impacts associated with increased vehicle traffic to and from the site as well as energy use. Buildout of the proposed project would occur from 2011 to 2033, with the nonresidential land uses constructed during the last 10 years. As the proposed construction would occur over a 22-year time period, there is the potential that additional construction activity associated with future projects in the vicinity of the proposed project could occur concurrently and cumulatively impact the same sensitive receptors. Construction schedules for potential future projects are currently unknown; therefore, potential impacts to sensitive receptors that might be located within an area of overlap between emissions from two simultaneous projects are speculative. The CEQA Guidelines state that if a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact (Title 14, California Code of Regulations, Section 15145). This analysis is nonetheless provided in an effort to provide good faith analysis and comply with CEQA's information disclosure requirements. Air pollutant emissions associated with construction activity of future projects would be reduced through the implementation of mitigation measures required by the South Coast Air Quality Management District (SCAQMD). Cumulative PM₁₀ and PM_{2.5} emissions would be reduced as all future projects would be subject to SCAQMD Rule 403 (Fugitive Dust), which sets forth general and specific requirements for all construction sites in the SCAQMD. As indicated in Section 5.10, the application of architectural coatings (exterior/interior paint and other finishings) would produce VOC emissions that would exceed the SCAQMD's established quantitative significance threshold. As VOC is a precursor to ozone, construction of the proposed project along with other nearby projects would contribute to the South Coast Air Basin's (SCAB) ozone nonattainment designation. The maximum 24-hour PM₁₀ and PM_{2.5} concentrations are anticipated to exceed the LST at the maximally impacted sensitive receptor in the vicinity of the project site during project construction. Fugitive dust, as well as vehicle and equipment exhaust, generated during project construction would also contribute to the SCAB nonattainment designation for PM₁₀ and PM_{2.5}.

Operations of the project would produce VOC, NO_x, CO, SO_x, PM₁₀ and PM_{2.5} emissions from all combined proposed residential and nonresidential project land uses. The projected operational emissions from both area source and vehicular emissions are substantially above the SCAQMD

significance criteria for all pollutants except SO_x. Long-term operational air quality impacts are considered significant and unmitigable, even with application of all feasible mitigation measures. The cumulative effect of the proposed project and other projects in the vicinity would incrementally contribute to the SCAB's levels of O₃, NO₂, CO, PM₁₀, and PM_{2.5}. The location of the project within a nonattainment area for ozone PM₁₀, and PM_{2.5}, when combined with other foreseeable projects within the area would result in significant, unmitigable cumulative air quality impacts from both a short and long term perspective even with incorporation of all feasible area source and vehicular source mitigation measures. Because feasible mitigation measures consist of many emission reduction strategies (i.e., architectural design features, encouragement of alternative transportation, etc.), most of which help reduce emissions, current technology doesn't allow for a complete reduction of emissions given the types of development proposed. Therefore despite the City's efforts to require all feasible mitigation, significant unmitigable impacts would remain.

Global Climate Change

The project would also contribute to the overall production of greenhouse gas (GHG) emissions during construction and operation. As stated in *Section 5.10.4*, the proposed project's contribution to state, national, and GHG emission inventories and the resultant effect on global climate should be evaluated on a cumulative basis. The proposed project would generate GHG emissions, which would contribute to potential cumulative impacts of GHG emissions on global climate.

Under Section 15065 of the CEQA Guidelines, an EIR must discuss cumulative impacts if a project would have a cumulatively considerable effect on a resource, where "cumulatively considerable" is defined as "...the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects." However, as Section 15064(h)(4) states, "The mere existence of significant cumulative impacts caused by other projects alone shall not constitute substantial evidence that the proposed project's incremental effects are cumulatively considerable." Therefore, the fact that the proposed project would result in emissions of GHGs (chiefly carbon dioxide), and that global GHG emissions contribute to the greenhouse effect and the resultant impacts on global climate, does not mean that the proposed project would have a cumulatively considerable contribution to impacts on global climate. The potential contribution of the project to this cumulative impact is evaluated relative to whether the project could impede or conflict with the emissions reduction targets and strategies prescribed in or developed to implement AB 32.

The proposed project is evaluated with respect to the California Air Resources Board's (CARB) Climate Change Scoping Plan, which established the state's framework for meeting the goals of

AB 32. Many of the Scoping Plan measures to be adopted in the next several years will reduce GHG emissions from all development projects and their users in California. For example, adoption of the Low Carbon Fuel Standard and more stringent energy conservation standards would apply to all motor vehicle users and owners of homes and commercial properties, including those of the proposed project. Given that the GHG reduction goal of AB 32 (i.e., reduction of emissions to 1990 levels by 2020) would require a statewide reduction of approximately 30% from "business as usual" (i.e., the emissions that would occur in the absence of any regulation of GHG emissions), a large portion of a specific project's GHG emissions will result from statewide measures. Nonetheless, each development project should incorporate measures intend to achieve the goals of AB 32.

The Specific Plan incorporates several design features that reduce indirect emissions of GHGs by reducing vehicle trips and conserving water that would otherwise be consumed by the proposed project:

- Incorporates commercial (retail) and mixed-use (office/retail) components to improve jobs/housing balance and reduce vehicle trips.
- Incorporates public and private on-site recreational facilities
- Provides drought-tolerant and water-efficient landscaping for the community to reduce waste usage.
- Incorporates recycled water from Eastern Municipal Water District to supply the lake and irrigate landscaping to minimize the use of potable water.

By incorporating the commercial and mixed-use components of the proposed project, the project's residents will be able to use retail services and take advantage of job opportunities within proximity to the residential development. Thus, motor vehicle trips and their associated GHG emissions would be reduced relative to a project that would not include these nonresidential uses. The traffic impact analysis estimated that 5,020 trips are captured internally by the project for trips between the residential and commercial/mixed-use components. If these trips were required to go to off-site commercial and mixed-use locations, they would generate a minimum of 6,693 metric tons of carbon dioxide equivalent (CO₂E) of GHGs. This amount would be even larger if the project residents were required to drive farther to such uses, which would be likely given the lack of retail and commercial development in proximity to the proposed project. Additionally, there are on-site recreational facilities which would further reduce the need for longer vehicle trips associated with such uses at another location.

The use of recycled water to supply the lake and for landscape irrigation will reduce the GHG emissions associated with electricity needed for conveyance, treatment, and distribution of potable water. The estimated amount of water needed to supply the lake and irrigation of

common landscaping area (e.g., parks and greenbelts) is 402 acre-feet per year. Using recycled water would offset an equivalent amount of potable water, which would result in the generation of 1,137 metric tons CO₂E of GHG emissions from electricity for conveyance, treatment, and distribution.

Together, the incorporation of commercial/mixed-use components and use of recycled water would reduce the proposed project's GHG emissions by an estimated 7,830 metric tons CO₂E per year, or 14%, relative to the business-as-usual scenario.

In addition, the Specific Plan would reduce GHG emissions associated with vehicle trips by encouraging pedestrian and bicycle activity within the community. The project would include a 9.6-acre network of paseos and pathways linking the Beach Club and lake to all of the residential neighborhoods, commercial and mixed use areas, and the recreational amenities including the neighborhood parks and the Community Park. Neighborhood design will maximize pedestrian access to the paseo system by providing that a minimum of 50% of the streets terminate in cul-de-sacs that access the paseos.

The following design guidelines have been incorporated into the Energy Efficiency Guidelines in the Villages of San Jacinto Specific Plan to help reduce vehicle trips, electrical and natural gas usage, and conserve water, all of which would reduce the proposed project's GHG emissions.

Energy Efficiency

1. All buildings shall employ passive heating and cooling design strategies to the extent practical.
2. Shading of windows and entrance locations with a combination of structural elements and landscape materials will reduce heat gain and lower the temperature around each house.
3. Consider installing natural lighting systems such as skylights and interior transom windows to reduce energy consumption in commercial, office and municipal structures.
4. When appropriate to the architectural style, consider constructing light colored roof, which absorb less heat, reduce solar heat gain, and reduce use of mechanical cooling systems.
5. Use energy-efficient appliances and programmable thermostats to reduce the amount of consumed energy and reduce utility bills.
6. Automatic devices to turn off lights after business hours shall be used to the extent feasible in the commercial and business park land uses. Similarly, install timers on outdoor lighting to limit operating hours.

7. Install fluorescent bulbs in all indoor and outdoor fixtures unless unsuitable for the application.
8. Offer homebuyers the option of a natural gas stove, which reduces the consumption of electricity.
9. Use of passive solar energy minimizes the consumption of electricity. If possible, offer additional energy conservation features as homebuyer options, including but not limited to:
 - a. Photovoltaic panels for electrical power needs of home.
 - b. Photovoltaic landscape lighting, gate openers, water features.
 - c. Solar water heating system.

Water Conservation

1. Drought tolerant and native plants are required as part of the plant palette, as required by Riverside County Ordinance No. 859.
2. Use a drip irrigation system and/or zoned irrigation system with a rain sensor shutoff feature.
3. Consider xeriscape landscape treatments instead of lawns. Where lawns or gardens are proposed, incorporate detention grading and/or construct as a swale to allow for maximum detention and control of stormwater flows.
4. Utilize water efficient faucets, high-efficiency toilets (HETs), and water-conserving shower heads in residential homes.

Landfill Waste

1. During building construction, use long-lasting products, such as engineered lumber and durable, non-combustible flooring, siding, and roofing materials, if feasible.
2. Consider the use of sustainable building materials for use during building design and construction.

Pedestrian Activity and Bicycle Paths

1. Provide on-site improvements, such as sidewalks or pedestrian walkways, to promote on-site pedestrian activity and reduce the amount of vehicle trips within the community.
2. Provide a pedestrian access network and pedestrian facilities to internally link all uses and connect to all existing/planned external streets and public facilities.

3. Provide a designated bicycle route connecting all units, on-site bicycle parking facilities, and all streets contiguous with the community.
4. Design traffic calming elements to encourage walking and biking.

Implementation of these design guidelines would likely result in additional reductions in the GHG emissions from natural gas and electrical usage. However, those emission reductions cannot be quantified because the guidelines do not provide sufficient detail to compute the actual reductions in natural gas and electrical usage.

The Climate Change Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32. The Scoping Plan recommendations serve as statewide strategies to reduce the state's existing GHG emissions and proposed project's contributions. Although a framework for the adoption of specific regulations and measures, the Scoping Plan is the current state's plan to reduce GHG emissions. *Table 6.0-2, Project Consistency with Scoping Plan GHG Emission Reduction Strategies*, highlights measures to be developed under the Scoping Plan that would be applicable to the proposed project or its users. The proposed project's consistency with the applicable Scoping Plan measures is assessed.

**Table 6.0-2
Project Consistency with Scoping Plan GHG Emission Reduction Strategies**

Scoping Plan Measure	Measure Number	Project Consistency
Pavley Motor Vehicle Standards (AB 1493)	T-1	The proposed project's residents and employees would purchase vehicles in compliance with CARB vehicle standards that are in effect at the time of vehicle purchase.
Limit High GWP Use in Consumer Products	H-4	The proposed project's residents would use consumer products that would comply with the regulations that are in effect at the time of manufacture.
Motor Vehicle Air Conditioning Systems – Reduction from Non-Professional Servicing	H-1	The proposed project's residents would be prohibited from performing air conditioning repairs and required to use professional servicing.
Tire Pressure Program	T-4	Motor vehicles driven by project residents and employees would maintain proper tire pressure when their vehicles are serviced.
Low Carbon Fuel Standard	T-2	Motor vehicles driven by project residents and employees would use compliant fuels in the future.
Water Use Efficiency	W-1	The Specific Plan includes measures to minimize water use and maximize efficiency.
Water Recycling	W-2	The proposed project will use recycled water for the lake and irrigation of common landscaped areas.
Solar Water Heating (AB 1470)	CR-2	The Specific Plan includes an energy efficiency guideline to offer home purchasers the option of installing solar hot water heaters.
Million Solar Roofs	E-4	The Specific Plan includes an energy efficiency to offer home purchasers the option of installing photovoltaic panels for electrical power needs.

Table 6.0-2 (Continued)

Scoping Plan Measure	Measure Number	Project Consistency
Green Buildings	GB-1	The proposed project will be required to be constructed in compliance with state or local green building standards in effect at the time of building construction.
Air Conditioning Refrigerant Leak Test During Vehicle Smog Check	H-5	Motor vehicles driven by the proposed project's residents and employees would comply with the leak test requirements during smog checks.
Renewable Portfolios Standard (33% by 2020)	E-3	The electricity used by residents and businesses in the proposed project will benefit from reduced GHG emissions resulting from increased use of renewable energy sources.
Energy Efficiency Measures (Electricity)	E-1	The proposed project will comply with energy efficiency standards for electrical appliances and other devices at the time of building construction.
Energy Efficiency (Natural Gas)	CR-1	The proposed project will comply with energy efficiency standards for natural gas appliances and other devices at the time of building construction.
Greening Public Schools	GB-1	The proposed school would meet green building standards that are in effect at the time of design and construction.
Greening New Residential and Commercial Construction	GB-1	The proposed project's residential and commercial buildings would meet green building standards that are in effect at the time of design and construction.
Greening Existing Homes and Commercial Buildings	GB-1	The proposed project's residential and commercial buildings would meet retrofit standards when they become effective.

SOURCE: CARB 2009.

In addition to the strategies being developed under the Climate Change Scoping Plan, the Attorney General and others have recommended mitigation measures that can be applied to a project to reduce its GHG contribution. The Attorney General's list (Office of the California Attorney General 2008) includes many of the measures that are project design features or are incorporated into the Specific Plan's Energy Efficiency Guidelines. These include, but are not limited to, the following:

- Design buildings to be energy efficient. Site buildings to take advantage of shade, prevailing winds, landscaping and sun screens to reduce energy use.
- Install efficient lighting and lighting control systems. Use daylight as an integral part of lighting systems in buildings.
- Install light colored "cool" roofs, cool pavements, and strategically placed shade trees
- Install energy efficient heating and cooling systems, appliances and equipment, and control systems.
- Limit the hours of operation of outdoor lighting.

- Install solar and wind power systems, solar and tankless hot water heaters, and energy-efficient heating ventilation and air conditioning.
- Create water-efficient landscapes.
- Install water-efficient irrigation systems and devices, such as soil moisture-based irrigation controls.
- Use reclaimed water for landscape irrigation in new developments and on public property. Install the infrastructure to deliver and use reclaimed water.
- Design buildings to be water-efficient. Install water-efficient fixtures and appliances.
- Include mixed-use, infill, and higher density in development projects to support the reduction of vehicle trips, promote alternatives to individual vehicle travel, and promote efficient delivery of services and goods.
- Preserve and create open space and parks.
- Create travel routes that ensure that destinations may be reached conveniently by public transportation, bicycling or walking.
- Incorporate bicycle lanes and routes into street systems, new subdivisions, and large developments
- Create bicycle lanes and walking paths directed to the location of schools, parks and other destination points.

In January 2008, the California Air Pollution Control Officers Association (CAPCOA) published *CEQA and Climate Change: Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act* (CAPCOA 2008). This white paper is "intended as a resource, not a guidance document. It is not intended, and should not be interpreted, to dictate the manner in which an air district or lead agency chooses to address greenhouse gas emissions in the context of its review of projects under CEQA" (CAPCOA 2008). However, this document provides an extensive list of potential GHG mitigation measures; however, many of them would be only implementable by the users of the proposed project and not enforceable by the City or the applicant. Again, many of them, as listed below, are project design features or incorporated into the Energy Efficiency Guidelines:

- Bike parking
- Proximity to bike path/bike lanes
- Pedestrian network
- Orientation to existing/planned transit, bikeway, or pedestrian corridor
- Suburban mixed use

- No wood-burning fireplaces or stoves
- Energy efficient appliances
- Shading mechanisms
- Programmable thermostats
- Passive heating and cooling systems.

Based on the analysis in *Table 6.0-2*, the proposed project would substantially reduce its contribution to GHG emissions and global climate due to its consistency with the strategies and measures in the Scoping Plan, as well as mitigation measures suggested by the Attorney General and CAPCOA. In addition, the proposed project would result in GHG emissions of approximately 49,650 metric tons per year (0.05 million metric tons) as shown in *Table 5.10-13*, which is 14% below the level that would have been emitted under a business-as-usual scenario. Furthermore, compared to the estimated GHG for all sources in California (423 million metric tons, excluding out-of-state electrical generation, in 2004), the project would result in a contribution of approximately 0.012% to California's GHG emissions inventory without accounting for the implementation of statewide emissions that would reduce both the project's and the state's emission inventories. In light of the project's consistency with the Scoping Plan and other suggested measures through its design features and Energy Efficiency Guidelines and its substantial reduction from business as usual, it is concluded that the proposed project would not impede or conflict with the emissions reduction targets and strategies prescribed in or developed to implement AB 32. Therefore, the proposed project would not result in a cumulatively considerable contribution to global climate change, and this cumulative impact would be less than significant.

Noise

Cumulative noise impacts are discussed in terms of traffic related noise and a general increase in urbanization in an area. A project specific contribution to cumulative traffic noise would be evaluated on an individual basis, and if significant impacts are identified (e.g., non-compliance with noise standards) then mitigation requirements would be imposed. In the long term, the increase in traffic noise from the proposed project and cumulative developments (i.e., General Plan build-out) is calculated to range from 5 to 7 dB, which is a noticeable change in the noise environment. The noise increase associated with traffic from cumulative developments is therefore considered potentially significant. However, the project's contribution to cumulatively significant traffic noise impacts is less than significant (1 dB or less increase, which by itself is not a discernible increase). Consequently, mitigation is not required for the project's contribution to off-site noise impacts associated with General Plan build-out traffic volumes but is required

for the cumulatively significant impact, Mitigation to address this significant cumulative noise impact is included in Section 5.11.5, Mitigation Measures, Mitigation Measure 5.11-a.

Public Services and Utilities

The project would involve an incremental increase in demand for public facilities. As described in *Section 5.12, Public Services and Utilities*, consistency and contribution to City public facility fee structures would eliminate adverse cumulative impacts on local sewer, water, police and fire services. The proposed project includes development standards that would apply to all future build-out of the planning area which specifically includes development elements and/or policies and measures to ensure that adequate public facilities and services are provided in conjunction with build-out of the development.

Hazards/Risk of Upset

Potential hazards associated with development of the project and development of surrounding projects would be site-specific and can be mitigated on a project-by-project basis. Each project is required to ensure that no hazardous conditions exist at the project site or that the project itself would not result in a hazard to the public or the environment. The proposed project could potentially result in significant hazard impacts, however mitigation has been provided which would reduce project-specific impacts to a level below significance. Because all projects are required to fully mitigate any on-site hazards, residual cumulative impacts related to hazards/risk of upset would not occur.

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SECTION 7.0

EFFECTS FOUND NOT TO BE SIGNIFICANT

7.1 INTRODUCTION/PURPOSE

Section 15128 of the CEQA Guidelines requires that an EIR briefly describe any potential environmental effects that were determined not to be significant during the initial project scoping and, therefore, were not discussed in detail in the EIR.

Several subjects required to be analyzed under CEQA were determined not to be potentially significant during Initial Study preparation and during the public scoping period. Therefore, these environmental issues have not been analyzed in the EIR and have received no further consideration.

7.2 ISSUES FOUND NOT TO BE SIGNIFICANT

Mineral Resources

The main mineral resource recovery areas within western Riverside County are in the Temescal Wash area, the Santa Ana River Valley, and sporadic pockets dotted throughout the lowland areas. Valuable sand, gravel, and crushed rock resources, which are extremely important to the local and regional construction industry, are located within these areas. The project is located within a "MRZ-3" designation in the Riverside County General Plan Open Space Element. "MRZ-3" indicates that there are significant mineral deposits within the area; however, the significance of the deposits have yet to be determined (County of Riverside 2003, p. OS-26 and Figure OS-5).

The project site is underlain by alluvial materials composed of inter-bedded sands and silts (Leighton and Associates 2004). Mineral resources are generally composed of gravels and rock materials. The site, therefore, does not support mineral resources that are considered to be of high value.

Population and Housing

The CEQA Appendix G Checklist includes two basic questions related to population and housing: (1) Will the project induce substantial population growth in an area, either directly or indirectly, and (2) Will the project displace substantial numbers of people or residences, necessitating the construction of replacement housing elsewhere? The first question relates to the project's growth inducing nature; therefore, this issue is discussed in *Section 8.0, Growth Inducing Impacts*. The second question relates to displacement, which is an "Effect Found Not to be Significant" and is therefore discussed below.

One unoccupied residence is currently located on the project site. The project would therefore involve the removal of this dwelling. The loss of one residence would be sufficiently offset by the construction of up to 1,329 new residential units on the site. Therefore, significant impacts related to population and housing displacement would not occur.

Noise

The CEQA Appendix G Checklist includes two questions related to noise, which were not discussed in *Section 5.11, Noise*: (1) For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise, and (2) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels? The project is not located within 2 miles of a public airport or private use airport. Therefore, impacts associated with aircraft noise to people residing on the project site would not occur.

SECTION 8.0 GROWTH INDUCING IMPACTS

Section 15126.2(d) of the CEQA Guidelines mandate that the growth inducing nature of the proposed project be discussed. This CEQA Guideline states the growth inducing analysis is intended to address the potential for the project to “foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment.” Further, as discussed in *Section 7.0, Effects Found Not Significant*, the CEQA Appendix G Checklist (Population and Housing) also mandates that a CEQA document speak to the project’s likelihood to induce substantial population growth in an area, either directly (for example, by proposing new homes or businesses) or indirectly (for example, through extension of roads or other infrastructure).

A project may be distinguished as either facilitating planned growth or inducing unplanned growth. Facilitating growth is relating to the establishment of direct employment, population or housing growth that would occur within a project site. Inducing growth is related to lowering or removing barriers to growth or by creating an amenity or facility that attracts new population/economic activity. For purposes of this EIR analysis, a significant growth inducement impact would occur if the project, and all associated infrastructure improvements, directly or indirectly remove obstacles to growth such that the induced growth would significantly burden existing community services, the environment or cause a demand for General Plan Amendments.

The large-scale nature of the project would contribute substantial funding for roadway and utility infrastructure improvements needed to accommodate growth planned in the western portion of the City of San Jacinto. The project would not contribute excess infrastructure capacity that would induce growth in surrounding areas, but would rather help accommodate the continued population influx in western Riverside County over the next several decades. Improvements to transportation, utilities and public service infrastructure as part of the project would help alleviate existing infrastructure deficiencies and accommodate planned growth, but would not result in a significant amount of unplanned growth to the area. For example, water and sewer pipelines in North Sanderson Avenue are already sized appropriately to service the site, the project would not result in an extension of large-capacity pipeline network beyond what is already in place that could then facilitate easy connections by other planned developments within the area. Similarly, while the project would result in a General Plan Amendment, significant growth inducing impacts to land use would not occur as this project site and the surrounding land is planned for urban uses. No features of the proposed project, on its own, would encourage or enhance the likelihood of growth in the surrounding areas other than anticipated under the applicable general plan. Therefore, while the project will induce planned population growth in the area, it will not induce growth in the area that is not already planned and permitted under the City’s General Plan. Therefore growth inducing impacts would not occur.

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SECTION 9.0 SIGNIFICANT IRREVERSIBLE ENVIRONMENTAL CHANGES

9.1 Significant Effects Which Cannot be Avoided

Section 15126.2(b) of the CEQA Guidelines requires an EIR to identify significant environmental effects that cannot be avoided if the proposed project is implemented. As discussed in this EIR, implementation of the proposed project would result in significant project impacts to agriculture and air quality and contribute to a significant unavoidable impact for cumulative traffic conditions. As discussed in Section 5.3, Agricultural Resources, there is no feasible mitigation to replace agricultural resources and this impact will therefore remain significant and unavoidable. Even with application of feasible mitigation measures, significant unavoidable air quality impacts will occur due to application of architectural coatings, potential CO “hotspots,” and projected operational emissions from both area source and vehicular emissions. Because the City can not guarantee that the MCP and SR 79 projects would be in place prior to project build-out, the project would contribute to a significant, unavoidable cumulative impact to regional traffic service levels in the absence of these facilities.

9.2 Significant Irreversible Environmental Changes Which Would be Caused by the Project Should it be Implemented

CEQA Section 15126.2(c) requires the evaluation of the uses of nonrenewable resources during the initial and continued phases of a project when a large commitment of such resources makes removal or non-removal or non-use thereafter unlikely. Approval of the proposed development of the site from an agricultural operation to a residential/commercial/business park community commits the area to urban uses. The project would permanently remove approximately 475.1 acres of land from local agricultural production. However, the change in use is both planned and projected. The proposed project would require commitment of nonrenewable resources associated with construction and long-term operation, including but not limited to, lumber and other related forest products, sand, gravel and concrete, asphalt, petrochemical construction materials, steel, copper, lead and other metals, water, fuels and energy. Use of these resources would represent an incremental effect on the regional consumption of these commodities. Implementation of the Villages of San Jacinto project would involve consumption of energy resources, such as electricity and natural gas, derived from non-renewable sources such as fossil fuels.

The predominant irreversible environmental change that would occur as a result of the project would be continuation of planned commitment of land resources to urban/developed uses. This would constitute a permanent change. Once construction occurs, reversal of the land to its

original condition is nearly impossible. Other permanent changes would include more traffic and hence noise, permanent landform alteration, increased human presence in the area and the transition from a rural to urban development. Irreversible commitments of energy resources would occur with the proposed project. These resources would include electricity, natural gas, potable water and building materials.

The CEQA Guidelines require that an EIR identify "feasible measures which could minimize significant adverse impacts, including where relevant, inefficient and unnecessary consumption of energy" (Title 14, California Code of Regulations, Section 15126.4(a)(1)). Examples of energy conservation measures are provided in Appendix F of the State CEQA Guidelines (Section 15126.4(a)(1)(C)). The proposed project will consume energy in several different forms: gasoline and diesel fuels for motor vehicles; natural gas for water and space heating and cooking; electricity to operate lighting, heating and air conditioning systems, water transport including water for landscaping, and other uses.

Appendix F, Energy Conservation, of the CEQA Guidelines, recommends that EIRs include a discussion of the potentially significant energy impacts of proposed projects, with particular emphasis on avoiding or reducing inefficient, wasteful and unnecessary consumption of energy (see also Public Resources Code Section 21100(b)(3)). Appendix F also states that mitigation measures may include siting, orientation, and design to minimize energy consumption, including transportation energy, water conservation and solid-waste reduction; the potential for reducing peak energy demand; alternate fuels (particularly renewable ones) or energy systems; energy conservation which could result from recycling efforts; and other potential measures to reduce wasteful, inefficient and unnecessary consumption of energy during construction, operation, maintenance and/or removal.

The Specific Plan identifies elements in the site planning, design and construction phases that would be implemented to achieve a high level of energy efficient performance. Following standard planning and building practices typically ensures compliance with building code requirements and issuances of the necessary permits; however, implementation of the Specific Plan's Energy Efficient Guidelines are intended to reduce energy use even further, thereby reduce operating costs and contributing to the reduction in environmental impacts associated with air quality, hydrology, water quality, hazards, and utilities. The Specific Plan's Energy Efficient Guidelines, summarized below, are consistent with Appendix F recommended mitigation measures.

The Energy Efficiency Guidelines include the following strategies to minimize the energy demands of the proposed project:

- Passive heating and cooling design strategies such as orientation
- Natural ventilation, including cross-ventilation in residential units

- High insulation values, energy efficient windows including high performance glass
- Light-colored roofing and exterior walls
- Window shading through strategically placed landscaping
- Landscaping that provides shading during appropriate seasons
- Natural lighting systems such as skylights and interior transom windows in commercial, office and municipal structures
- Energy-efficient appliances and programmable thermostats.

The Specific Plan also includes water conservation strategies that would reduce water demand and the associated electrical consumption for water transport and distribution. The water conservation strategies include:

- Utilization of water-efficient faucets, high-efficiency toilets (HETs), and water-conserving shower heads in residential homes
- Drought tolerant and native plants, as required as part of the plant palette in the Specific Plan
- Installation of xeriscape landscape treatments instead of lawns
- Drip irrigation systems and/or zoned irrigation systems with a rain sensor shutoff feature
- Use of reclaimed waste water for irrigation of community landscaping.

In addition to water conservation, smart landscaping practices included in the Specific Plan would also reduce the reliance on mechanical cooling systems and the associated electrical consumption. Shade-producing trees planted in accordance with the Specific Plan's Shade Standards, would minimize the heat island effect, while permeable materials reduce the amount of heat absorbed and re-radiated from the surface and prevent additional solar heat gain surrounding residences. The Specific Plan also includes improvements to the existing street network to promote on-site bicycle and pedestrian activity and reduce the amount of vehicle trips and associated motor vehicle fuel use within the community. These improvements include:

- Development of sidewalks or pedestrian walkways
- Pedestrian access network and pedestrian facilities to internally link all uses and connect to all existing/planned external streets and public facilities
- Designated bicycle route connecting all units, on-site bicycle parking facilities, and all streets contiguous with the community
- Traffic calming elements to encourage walking and biking.

In addition to the Specific Plan's Energy Efficient Guidelines, the commercial/mixed-use elements of the proposed project would reduce total vehicle-miles traveled and associated motor vehicle fuel use. As commercial and retail uses would be within close distance to residential uses, trip lengths would be reduced. Development of commercial uses within walking or bicycling distance of residences would help to reduce reliance on motor vehicles. Although the implementation of the proposed project would involve consumption of energy resources, such as electricity and natural gas, derived from non-renewable sources such as fossil fuels, the project incorporates energy conservation strategies that would reduce the project's incremental effect on regional energy consumption.

SECTION 10.0 PROJECT ALTERNATIVES

CEQA requires that an EIR evaluate a "reasonable" range of alternatives. According to the CEQA Guidelines, "...an EIR shall describe a range of reasonable alternatives to the project, or to the location of the project, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, and evaluate the comparative merits of the alternatives (Cal. Code Regs., Title 14, Section 15126.6(a)). Specifically, the Guidelines require the analysis of the No Project Alternative and alternatives which would be "capable of avoiding or substantially lessening any significant effects of the project" (Cal. Code Regs., Title 14, Section 15126.6(b)). It also requires a discussion of why other alternatives were rejected if they were considered in developing the proposed project and still would meet the project objectives. Although an exhaustive analysis is not necessary, an EIR "must consider a reasonable range of potentially feasible alternatives that will foster informed decision making and public participation" (Cal. Code Regs., Title 14, Section 15126.6(a)).

Pursuant to the guidelines stated above, a range of alternatives to the proposed project are considered and evaluated in this EIR. These alternatives were developed in the course of project planning, environmental review, and public hearings. The discussion in this section provides:

In order to summarize these project alternatives, as suggested in CEQA Section 15126.6(d), a matrix has been prepared to summarize and compare the impacts of each project alternative.

10.1 ALTERNATIVES CONSIDERED BUT REJECTED

The following alternative was eliminated from further consideration.

10.1.1 Alternative Site Location

Off-site alternative locations were considered as part of the alternatives process. Per CEQA Guidelines Section 15126.6(f)(2)(A), the key question and first step in analysis of the off-site location is whether any of the significant effects of the project would be avoided or substantially lessened by putting the project in another location.

It should be noted that the availability of an alternative site does not in and of itself reduce impact potential. It is expected that developing a similar project would result in a similar array of project impacts and would simply transfer this impact potential to areas surrounding the alternate site location. For these reasons, an alternate site location would not necessarily be preferred over the proposed project site.

Project Description

Due to the undeveloped nature and existing land use designations found throughout much of the areas surrounding the project vicinity, suitable sites exist for this type/scale of development in the surrounding area.

Environmental Analysis

Because of the type, number of units and densities proposed, a similar amount of land would be required to accommodate the project at a different location. Depending on the location of this alternative, it would be expected to result in similar impacts to aesthetics, biological resources, cultural resources, geology/soils hazards and hazardous materials, hydrology and water quality, land use and planning, noise and public services to that of the proposed project at its present location, and would require a similar level of mitigation to reduce identified impacts to less than significant levels. If an alternative site included important farmland as designated by the California Resources Agency, it would result in a similar direct unavoidable impact due to loss of agricultural resources. An alternative location would also have unavoidable air quality impacts due to application of architectural coatings, potential CO "hotspots," and projected operational emissions from both area source and vehicular emissions. It would also likely have significant urban/rural land use conflicts between the planned development and existing agricultural uses in the area. The trip generation associated with the project would be the same; therefore, the alternative site location would be expected to contribute to a significant unavoidable impact for cumulative traffic conditions if the MCP and SR 79 projects are not in place upon completion.

Consideration/Elimination

Per CEQA Guidelines Section 15126.6 (f)(1), "Among the factors that may be taken into account when addressing the feasibility of alternatives are site suitability, economic viability, availability of infrastructure, general plan consistency, other plans or regulatory limitations, jurisdictional boundaries (projects with a regionally significant impact should consider the regional context), and whether the proponent can reasonably acquire, control or otherwise have access to the alternative site (or the site is already owned by the proponent)." The applicant cannot reasonably acquire, control, or otherwise have access to an alternative site; therefore, an alternative site is infeasible. Additionally, since project related impacts would be similar for surrounding area properties, project development on an alternative site would simply shift impacts from one area to another, without the benefit of removing any significant unavoidable impacts.

10.2 ALTERNATIVES UNDER CONSIDERATION

Three alternatives were deemed appropriate for analysis in this EIR section. Because it was initially determined that the "Reduced Density" and "Existing General Plan Designation"

alternatives could feasibly accomplish most of the basic objectives of the project and could avoid or substantially lessen one or more of the significant effects, these two alternatives are analyzed. While the third alternative, "No Project/No Development" would not likely meet most of the project objectives, CEQA requires that this scenario also be analyzed. Inclusion of the No Project/No Development alternative provides the public/decision makers with a reasonable range of choices and allows comparison of impacts of approving the proposed project with the impacts of not approving the proposed project.

Each alternative is analyzed for potential environmental effects including Landform Alteration/Aesthetics, Agricultural Resources, Biological Resources, Geology and Soils, Cultural Resources, Paleontological Resources, Hydrology and Water Quality, Transportation, Circulation and Access, Air Quality, Noise, Public Utilities and Services and Hazards/Risk of Upset. Due to the lack of significant Land Use/Planning impacts, this issue is not discussed in this alternatives analysis. After each environmental issue is analyzed, a consideration/elimination discussion follows. This discussion relates to the project's feasibility as well as the project's relationship to the project objectives included in *Section 3.0, Project Description*.

CEQA Section 15126.6(c) indicates that a project alternative should meet "most" of the basic objectives of the project. In an attempt to provide an equal analysis factor, "most" is met if over eight of the twelve project objectives are met (roughly two thirds). To determine feasibility, site suitability, economic viability, availability of infrastructure, general plan consistency and other regulatory/planning limitations were considered.

10.2.1 No Project/No Development Alternative

Project Description

The No Project/No Development Alternative assumes that the project site would not be developed and the existing land uses (agricultural operations) present would remain.

Environmental Analysis

Landform Alteration and Aesthetics

The No Project/No Development Alternative would maintain existing aesthetic conditions on the site and would continue to contribute to the existing agricultural nature of the western San Jacinto Valley area. However, none of the proposed landscape improvements along adjacent roadways would occur without project development.

Agricultural Resources

The No Project/No Development Alternative would result in the continuance of agricultural resource use on the project site. Significant, unmitigable impacts to agricultural resources (such as would occur with the proposed project) would be avoided. The persistence of agricultural use on the site would maintain the non-conforming use on the site as the site is planned for residential and commercial land uses in the existing General Plan Planned Land Use Map. Due to the existing residential General Plan designation, it is reasonable to assume that future development proposals will be brought forward for this project site. Therefore, the No Project/No Development alternative may not ensure that agricultural resources remain on site well into the future.

Biological Resources

The No Project/No Development Alternative would not result in any direct impacts to on-site biological resources. All impacts to biological resources present on site would be avoided.

Geology and Soils

Potential geologic impacts related to seismically induced earth movement would be avoided under the No Project/No Development Alternative. The existing faults located on site would continue to exist and not pose a risk to structures due to the undeveloped nature of the site.

Cultural Resources

This alternative would not involve disturbing any subsurface material that could potentially support cultural resources beyond existing agricultural activities. It is not possible to predict the type of agricultural use that would remain on the project site; if future agricultural uses were to occur on site which required excavation or heavy land disturbance, if present, cultural resources may be impacted.

Paleontological Resources

This alternative would not involve disturbing any subsurface geologic formations that could potentially support paleontological resources as would the proposed project. It is not possible to predict the type of agricultural use that would remain on the project site; if future agricultural uses were to occur on site which required excavation or heavy land disturbance, if present, paleontological resources may be impacted.

Water Resources and Water Quality

Potential impacts associated with increased urban runoff, such as the introduction of petroleum products from paved surfaces would be avoided under the No Project/No Development Alternative. However, structural systems are not currently in place to control the pollutants associated with the existing land uses. Based on the proximity of the site to the San Jacinto River, potential hazards to runoff and water quality from the existing agricultural uses may be present. Further, no development on the site would eliminate the potential for contribution to the City's overall master drainage plan/infrastructure construction within the western San Jacinto area.

Transportation, Circulation and Access

This alternative would not promote additional trips along North Sanderson, Cawston Avenue, Odell Avenue and other nearby roadways such as SR 79, State Street, Ramona Expressway, SR 74 and Ramona Boulevard. It should be noted that the no project alternative would not assist the City of San Jacinto in completing circulation infrastructure in this growing area of the City due to the elimination of proposed improvements being made by the applicant and by no contribution of TUMF fees from project development.

Air Quality

The No Project/No Development Alternative would avoid the air quality impacts associated with site grading, construction, vehicular emissions and building operations.

Noise

Noise impacts associated with the proposed project would be avoided by the No Project/No Redevelopment Alternative. However, as the western portion of the City of San Jacinto continues to be built-out and development/traffic increases along North Sanderson Avenue, Cawston Avenue, Odell Avenue and other surrounding streets, the ambient noise setting within the area will increase regardless of project implementation. The project's elimination would not necessarily improve the existing and future noise environment.

Public Services and Utilities

The elimination of development on this site would reduce the demand for local public services and facility capacity and would also not provide for expansion of infrastructure.

Hazards/Risk of Upset

The potential for additional hazards and the risk of upset of unknown hazards would not occur under this alternative. While implementation of the No Project/No Development alternative would not disturb soils on site that may result in a release of contaminants, it would also not result in the beneficial effect of cleanup on the site.

Relationship to Project Objectives

The No Project/No Development Alternative WOULD meet the following project objectives:

- Consider topographic, geologic, hydrologic, and environmental opportunities and constraints to create a design which safely accommodates seismic and hydrologic hazards.

This alternative would NOT meet the following project objectives (explanations follow each objective and have been *italicized*):

- Provide for the establishment of a master-planned community through implementation of a Specific Plan, consisting of a maximum of 1,329 dwelling units, which is consistent with the scale and character of planned land uses in surrounding areas.

This alternative would result in continuing agricultural use and vacant fallow land that would not result in establishment of a master-planned community.

- Provide a variety of detached single-family lot sizes in traditional and non-traditional subdivision layouts that offer a wide range of affordability to meet the changing economic and demographic profile of the City of San Jacinto.

This alternative would not result in any new housing opportunities.

- Provide public and private recreational amenities for the benefit of residents of this community and of the City of San Jacinto.

There would be no new recreational amenities associated with this alternative.

- Provide drought-tolerant and water-efficient landscaping for the community.

No new landscaping of any kind would be provided under this alternative.

- Incorporate recycled water from EMWD to supply the lake and irrigate landscaping to minimize the use of potable water.

The agricultural uses on site would presumably continue to use primarily recycled water.

- Provide development opportunities for municipal, office, professional, and neighborhood retail commercial land uses within the community to support the economic growth of the City and to reduce the reliance of automobile use within the surrounding community.

The no project alternative would not provide any these development opportunities and would not reduce the length of automobile trips in the surrounding community.

- Provide a system of public and community facilities within residential neighborhoods to support development in an efficient and timely manner.

None of the public and community amenities would be provided under this alternative.

- Provide a development with unified design elements, such as architecture, landscaping, color palette, paving, walls, fencing, signage, and entry treatments.

This alternative would not allow an opportunity to provide any such design elements as the project would not be implemented.

- Develop an environment that is visually attractive, efficient, and effectively organized, which includes a pleasing landscape palette.

No new landscaping of any kind or any developed environment would be provided under this alternative.

- Integrate the project with the character of the surrounding community and establish development that results in logical, coordinated growth.
- Establish a circulation system that meets projected traffic volumes and accommodates a variety of transportation modes and encourages alternatives to automobile use within the community.

The no project alternative does not provide circulation improvements or encourage alternative transportation modes.

10.2.2 Existing General Plan Designation Alternative

Project Description

As shown on Figure 5.1-3, General Plan Comparison vs. Proposed Specific Plan, existing General Plan designations establish 136.5 acres of low density residential and 239.5 acres of medium density residential. This would allow for a maximum of 2,390 medium density dwellings (10 du/ac maximum) and up to 682 low density dwellings (5 du/ac maximum) for a total of 3,072 dwelling units under the existing General Plan. This compares with the proposed project which would result in 657 medium density dwellings and 359 low density dwellings for a total of 1,016 dwellings. Therefore, this alternative could result in more than three times the number of dwellings proposed under the project. This alternative would also provide 54.4 acres of commercial uses along Sanderson Avenue as opposed to a combined 49 acres of commercial and mixed uses under the project. This alternative results in fewer acres of open space/parks (44.7 as opposed to 110.5 under the project) and does not provide for a future high school on site.

Environmental Analysis

Landform Alteration and Aesthetics

This alternative would represent a similar change in urban land use as it would also appear as a developed suburban neighborhood in the western San Jacinto Valley. However, it does not provide as many transitions between land uses and would not guarantee the extensive open space amenities, street landscaping and landscaped trails that provide a visual buffer between land uses. Therefore, this alternative is viewed as slightly inferior to the project, but it is expected that significant visual impacts could be mitigated.

Agricultural Resources

This alternative would be similar to the proposed project in that it would eliminate agricultural land use from the project site.

Biological Resources

This alternative would result in similar impacts as the proposed project as it would eliminate existing biological resources on site. This project alternative does not provide for fewer impacts to biological resources compared to the proposed project.

Geology and Soils

Similar impacts related to seismic hazards would occur under this project alternative. It is anticipated that similar mitigation measures would be imposed and similar to the proposed project, result in all significant impacts being mitigated.

Cultural Resources

Because the presence of undiscovered cultural resources is unknown for both this and the proposed project alternative, risk of significant impacts would be the same as the proposed project. It is anticipated that similar mitigation measures would be imposed as for the proposed project which would result in all significant impacts being mitigated.

Paleontological Resources

Because the presence of paleontological resources is unknown for both this and the proposed project alternative, risk of significant impacts would be the same as the proposed project. It is anticipated that similar mitigation measures would be imposed and similar to the proposed project, result in all significant impacts being mitigated.

Water Resources and Water Quality

Similar water quality impacts would result under this alternative as described for the proposed project. The project site would likely be susceptible to the same flooding and groundwater hazards as outlined for the proposed project. It is anticipated that application of mitigation measures such as those required of the proposed project would have similar impact reducing effects for this alternative.

Transportation, Circulation and Access

Due to the increase in the number of dwelling units, the existing General Plan land use scenario would result in higher traffic volumes from a greater number of residents and more intensive construction phase as compared to the proposed project. Therefore, there is no guarantee that this alternative could mitigate all significant traffic impacts and is therefore viewed as inferior to the proposed project.

Air Quality

Due to three times more dwelling units allowed under this alternative, the existing General Plan land use scenario would result in higher traffic volumes and result in higher air quality impacts compared to the proposed project. Also, the application of architectural coatings would contribute higher overall VOC emissions and would be expected to exceed the daily threshold

for a greater number of days. Therefore, this alternative is viewed as environmentally inferior to the project due to anticipated greater air quality impacts.

Noise

Although similar noise levels would be expected, due to the increase in number of dwelling units, the length of the construction period is likely to be longer under this alternative. Also, the increased traffic volumes associated with the greater number of dwellings can be expected to result in higher noise levels on surrounding roadways as compared to the project. Therefore, this alternative is viewed as environmentally inferior to the project due to anticipated greater noise impacts.

Public Services and Utilities

Due to the more intensive land use anticipated with this alternative, additional new residents would likely result in increased demand on public utilities and services including police, fire, water, wastewater, solid waste disposal, etc. While it is assumed that an increase in demand for these services could be off-set by mitigation, a greater impact to public services and utilities would likely result from the proposed alternative.

Hazards/Risk of Upset

Similar hazards would result under this alternative as anticipated for the proposed project. Hazardous materials would need to be disposed of and any remaining soil hazards remediated. Further, hazards associated with former cattle raising areas would be the same type as anticipated for the proposed project.

Relationship to Project Objectives

The Existing Zoning/General Plan Designation alternative WOULD meet the following project objectives:

- Provide drought-tolerant and water-efficient landscaping for the community.
- Consider topographic, geologic, hydrologic, and environmental opportunities and constraints to create a design that safely accommodates seismic and hydrologic hazards.
- Reinforce the community identity of the project through control of project design elements such as architecture, landscaping, color palette, paving, walls, fencing, signage and entry treatments.
- Develop an environment that is visually attractive, efficient, and effectively organized, which includes a pleasing landscape palette.

- Integrate the project with the character of the surrounding community and establish development that results in logical, coordinated growth.
- Provide a system of public and community facilities within residential neighborhoods to support development in an efficient and timely manner.
- Provide a development with unified design elements, such as architecture, landscaping, color palette, paving, walls, fencing, signage, and entry treatments.

All of the above objectives would likely be required under a different Specific Plan for the project site, while utilizing all of the General Plan designations.

This alternative would NOT meet the following project objectives (explanations follow each objective and have been *italicized*):

- Provide for the establishment of a master-planned community through implementation of a Specific Plan, consisting of a maximum of 1,329 dwelling units, which is consistent with the scale and character of planned uses in surrounding areas.

Part of this objective would be met in that the City requires a Specific Plan to be prepared for projects over 100 acres. However, the number of dwelling units would be much greater than what is proposed for the project.

- Provide a variety of detached single-family lot sizes in traditional subdivision layouts that are marketable within the evolving economic and demographic profile of the City of San Jacinto.

This alternative could result in only two housing types that utilize the maximum allowable density range.

- Provide public and private recreational amenities for the benefit of residents of this community and of the City of San Jacinto.

The General Plan allows for a variety of recreational uses under the Open Space Recreation designation, but this alternative would not necessarily result in such uses being available to the public.

- Incorporate recycled water from EMWD to supply the lake and irrigate landscaping to minimize the use of potable water.

There is no guarantee that this alternative would accommodate a lake. However, it is likely that any landscaping could use recycled water, thus meeting part of this objective.

- Provide development opportunities for municipal, office, professional, and neighborhood retail commercial land uses within the community to support the economic growth of the City and to reduce the reliance of automobile use within the surrounding community.

This alternative does not allow for development of municipal, office, and professional land uses.

- Establish a circulation system that meets projected traffic volumes and accommodates a variety of transportation modes and encourages alternatives to automobile use within the community.

There is no guarantee that the circulation system associated with this alternative could adequately accommodate the projected increase in traffic volumes.

10.2.3 Reduced Density Alternative

Project Description

This project alternative would involve the development of a low density housing tract with approximately 1-acre lots. Due to drainage and infrastructure needs, this alternative would consist of approximately 350 single-family homes (on approximately 350 acres), 41 acres of parks, 27 acres of greenbelts, 14 acres of drainage basin, 18 acres of lake surfaces, 18 acres of roadways and a 3 acre clubhouse. Due to the existing nature of the site topography, this project alternative would be prepared, graded and designed in a similar fashion as the proposed project.

Environmental Analysis

Landform Alteration and Aesthetics

This alternative would represent a similar change in urban land use as the proposed alternative but would be less intense. This alternative would appear as a developed suburban neighborhood in the western San Jacinto Valley in place of the existing agricultural setting.

Agricultural Resources

This alternative would be similar to the proposed project in that it would eliminate agricultural land use from the project site. This project alternative does not provide for reduced impacts to agricultural resources because it proposes development over the entire site.

Biological Resources

This alternative would result in similar impacts as the proposed project. All significant impacts of the project are mitigated through project-specific mitigation, and therefore the alternative does

not offer mitigation that is necessary to reduce significant impacts to less than significant levels. The project's relationship with the Western Riverside MSHCP would be similar as described for the proposed project.

Geology and Soils

Similar impacts related to seismic hazards would occur under this project alternative. It is anticipated that similar mitigation measures would be imposed and similar to the proposed project, result in all significant impacts being mitigated.

Cultural Resources

Because the presence of undiscovered cultural resources is unknown for both this and the proposed project alternative, risk of significant impacts would be the same as the proposed project. It is anticipated that similar mitigation measures would be imposed as for the proposed project which would result in all significant impacts being mitigated.

Paleontological Resources

Because the presence of paleontological resources is unknown for both this and the proposed project alternative, risk of significant impacts would be the same as the proposed project. It is anticipated that similar mitigation measures would be imposed and would similarly result in all significant impacts being mitigated.

Water Resources and Water Quality

Similar water quality impacts would result under this alternative as described for the proposed project. The project site would likely be susceptible to the same flooding and groundwater hazards as outlined for the proposed project. It is anticipated that application of mitigation measures such as those required of the proposed project would have similar impact reducing effects for this alternative. However, this alternative is not inherently less impactful from a drainage/run-off and urban pollutant perspective than the proposed project due to less intensity of land use. Therefore, it is likely that this project alternative would reduce potential water quality impacts compared to the proposed project.

Transportation, Circulation and Access

Similar to the proposed project, this alternative would likely necessitate reconfiguration of several intersections; however, certain mitigation measures (intersection improvements) may not be necessary due to the elimination of the school, commercial/mixed uses and 666 fewer housing units as compared with the project. While directional splits of traffic for this alternative would be

different than those of the proposed project, this alternative would result in substantially less traffic to surrounding roadways.

Air Quality

Because of the South Coast Air Basin's non-attainment status for several criteria pollutants, air quality impacts, although less in quantity, would still occur under this reduced density scenario. Therefore, this alternative would not substantially reduce impacts to air quality due to fewer mobile source emissions. Short term air quality impacts related to application of architectural coatings could be substantially reduced under this alternative. However, impacts to air quality would likely remain at a significant, unmitigable level due to contribution of long term vehicular emissions.

Noise

The reduction in traffic under this alternative would reduce overall traffic noise anticipated on Sanderson Avenue, Odell Avenue and other nearby streets. While the project itself wouldn't generate as much traffic-producing noise, it is likely that homes along both internal and external roadways would require analysis of anticipated noise levels at property lines, etc. It is therefore assumed that similar noise impacts to future property owners would occur and mitigation measures in the form of set-backs and noise attenuation walls would be necessary to mitigate any noise impact.

Public Services and Utilities

The demand on public facilities such as water and sewer service would be less under this alternative due to a smaller user group at the site. However, no significant impacts were identified for public services and facilities, and therefore, this alternative does not offer any substantial benefits in terms of impact reduction.

Hazards/Risk of Upset

Similar hazards would result under this alternative as anticipated for the proposed project. Hazardous materials would need to be disposed of and any remaining soil hazards remediated. Further, hazards associated with existing cattle raising areas would be the same type as anticipated for the proposed project.

Relationship to Project Objectives

The Reduced Density Alternative WOULD meet the following project objectives:

- Consider topographic, geologic, hydrologic, and environmental opportunities and constraints to create a design which safely accommodates seismic and hydrologic hazards.
- Develop an environment that is visually attractive, efficient, and effectively organized, which includes a pleasing landscape palette.
- Integrate the project with the character of the surrounding community and establish development that results in logical, coordinated growth.
- Establish a circulation system that meets projected traffic volumes and accommodates a variety of transportation modes.
- Provide drought-tolerant and water-efficient landscaping for the community.
- Incorporate recycled water from EMWD to supply the lake and irrigate landscaping to minimize the use of potable water.
- Provide public and private recreational amenities for the benefit of residents of this community and of the City of San Jacinto.
- Provide a system of public and community facilities within residential neighborhoods to support development in an efficient and timely manner.
- Provide a development with unified design elements, such as architecture, landscaping, color palette, paving, walls, fencing, signage, and entry treatments.

This alternative would NOT meet the following project objectives:

- Provide for the establishment of a master-planned community through implementation of a Specific Plan, consisting of a maximum of 1,329 dwelling units, which is consistent with the scale and character of planned uses in surrounding areas.

Part of this objective would be met in that the City requires a Specific Plan to be prepared for projects over 100 acres. However, the number of dwelling units would be much lower than what is proposed for the project.

- Implement housing-type diversity by providing a variety of detached single-family lot sizes in traditional and non-traditional subdivision layouts that offer a wide range of affordability to meet the changing economic and demographic profile of the City of San Jacinto.

This alternative would not meet this objective in that only one housing type would be provided.

- Provide development opportunities for municipal, office, professional, and neighborhood retail commercial land uses within the community to support the economic growth of the City and to reduce the reliance of automobile use within the surrounding community.

This alternative would not meet any of these objectives in that it would not provide any municipal, office, professional or retail commercial land uses.

10.3 COMPARATIVE ANALYSIS

A matrix displaying the major characteristics and significant environmental effects of each alternative is provided in *Table 10.0-1, Alternatives Summary*. The matrix also indicates whether the alternative would be feasible in terms of meeting the project objectives as defined in *Section 3.0, Project Description*, of this EIR.

**Table 10.0-1
Alternatives Summary**

Environmental Issue	Proposed Project	No Project/No Development	Existing General Plan Designation	Reduced Density
Landform Alteration/ Aesthetics	Mitigable Impacts	Reduced impacts due to lack of changed aesthetic nature	Similar, but does not provide as many transitions between land uses	Similar
Agricultural Resources	Unmitigable Impacts	No Impact	Similar	Similar
Biological Resources	Mitigable Impacts	No Impact	Similar	Similar
Geology and Soils	Mitigable Impacts	No Impact	Similar	Similar
Cultural Resources	Mitigable Impacts	No Impact	Similar	Similar
Paleontological Resources	Mitigable Impacts	No Impact	Similar	Similar
Water Quality/ Hydrology	Mitigable Impacts	No Impact	Similar	Similar but less impervious surface due to less intensity of land use.
Transportation/ Circulation/Access	Mitigable Project Impacts Unmitigable Cumulative Impacts	No traffic impacts, but would not facilitate City's goal of installing infrastructure in western San Jacinto	Similar, but would result in higher traffic volumes that may not be completely mitigated.	Less impacts due to less overall trips
Air Quality	Unmitigable Impacts	No Impact	Greater Impacts	Less impacts but likely still significant and unmitigable due to non-attainment status of basin
Noise	Mitigable Impacts	No Impact	Greater Impacts	Similar

Table 10.0-1 (continued)

Environmental Issue	Proposed Project	No Project/No Development	Existing General Plan Designation	Reduced Density
Public Services/Utilities	Mitigable Impacts	No Impact	Similar, but water use and other utility use would be much higher under this alternative	Less impacts due to less demand for services
Hazards/Risk of Upset	Mitigable Impacts	No Impact	Similar	Similar
Meets Most Project Objectives?	Yes	No	No	No

Environmentally Superior Alternative

CEQA requires that an environmentally superior alternative, other than the No Project Alternative, be identified in an EIR. As shown in *Table 10.0-1*, although the Reduced Density Alternative does not meet most of the project objectives, it would reduce traffic, noise, public services/utilities and air quality impacts when compared to the proposed project. Consequently, this alternative is considered the environmentally superior alternative. That said, as analyzed in this chapter, no substantial advantages are offered by the Reduced Density Alternative when compared to the proposed project since the project would mitigate all significant public services/utilities and noise impacts to less than significant levels. All other impacts associated with the Reduced Density Alternative would be similar to the proposed project, and would require a similar level of mitigation. As with the proposed project, the Reduced Density Alternative would contribute pollutants to the air basin which is currently in non-attainment status, therefore significant, unmitigable air quality impacts would remain. Furthermore the environmentally superior alternative would also contribute to a significant cumulative traffic impact if the MCP and SR-79 improvement projects are not in place when the project is completed.

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SIGNIFICANT IRREVERSIBLE ENVIRONMENTAL CHANGES

N/A

PROJECT ALTERNATIVES

N/A

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