~~DRAFT~~FINAL

Initial Study/Mitigated Negative Declaration
Sewer Rehabilitation and Replacement Project

Prepared for:

City of South Pasadena
Public Works Department
1414 Mission Street
South Pasadena, California 91030-3298
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JUNE 2013

Printed on 30% post-consumer recycled material.

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Acronym/Abbreviation	Definition
AQMP	Air Quality Management Plan
bgs	below ground surface
BMP	best management practice
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emission Estimator Model
Cal-EPA	California Environmental Protection Agency
CAO	Cleanup and Abatement Orders
CARB	California Air Resources Board
CBC	California Building Code
CCAR	California Climate Action Registry
CCTV	Closed Circuit Television
CDFW	California Department of Fish and Wildlife
CDO	Cease and Desist Orders
CEQA	California Environmental Quality Act
CHL	California Historical Landmarks
CIPP	cured-in-place-pipe
CMP	Congestion Management Program
CNRA	California Natural Resource Agency
CWSRF	Clean Water State Revolving Fund
DTSC	Department of Toxic Substances Control
EIR	Environmental Impact Report
EPA	Environmental Protection Agency
FHWA	Federal Highway Administration
GHG	greenhouse gas emissions
HRI	Historic Resources Inventory
LACDPW	Los Angeles County Department of Public Works
LACFD	Los Angeles County Fire Department
LARWQCB	Los Angeles Regional Water Quality Board
LUST	leaking underground storage tank
MBTA	Migratory Bird Treaty Act
mg/kg	milligrams per kilogram
MND	Mitigated Negative Declaration
MRZ	Mineral Resource Zone
NAAQS	National Ambient Air Quality Standards
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
OPR	Office of Planning and Research

PHI	Points of Historical Interest
PID	photoionization detector
RCNM	Roadway Construction Noise Model
ROG	reactive organic gas
RWQCB	Regional Water Quality Control Board
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coast Information Center
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TPH	total petroleum hydrocarbon
TRU	transport refrigeration units
USFWS	U.S. Fish and Wildlife Service
UST	underground storage tank
VCP	vitrified clay pipe
VdB	vibration decibels
VOC	volatile organic compound

1.0 INTRODUCTION

1.1 Introduction

The City of South Pasadena, California (hereafter referred to as the City), is located in Los Angeles County between the Cities of Pasadena and Los Angeles. The City was officially incorporated in 1888; it encompasses 3.44 square miles with a population of approximately 25,000. The City's Public Works Department is responsible for streets, public buildings, water, sewer systems, street lighting, and park maintenance throughout the City, including an approximately 58-mile gravity sewer system. The City's system is approximately 60 to 90 years old and does not include any pump stations or treatment facilities. The City has experienced some sewer overflows due to sewer defects and root intrusion, and as a result, is proposing a sewer rehabilitation and replacement project to rehabilitate and replace the aging wastewater collection infrastructure.

The City is seeking a loan from the Clean Water State Revolving Fund (CWSRF) program administered by the State Water Resources Control Board (SWRCB), Division of Financial Assistance. As required by SWRCB, a California Environmental Quality Act (CEQA)-Plus evaluation was completed for the proposed project (Appendix F). The CWSRF requires that projects undergo CEQA-Plus evaluations to comply with federal regulations. The results of this evaluation are provided in the CEQA-Plus evaluation section within each relevant resource area (e.g., biological resources).

1.2 California Environmental Quality Act Authority to Prepare a Negative Declaration

The City is the lead CEQA agency for the review and approval of the proposed project. Based on the findings of the Initial Study/Environmental Checklist, the City has made the determination that a Mitigated Negative Declaration (MND) is the appropriate environmental document to be prepared in compliance with CEQA. As provided for by CEQA Section 21064.5, an MND may be prepared for a project subject to CEQA when an Initial Study has identified potentially significant effects on the environment, but (1) revisions in the project plans or proposals made by, or agreed to by, the applicant before the proposed Negative Declaration and Initial Study are released for public review would avoid the effects or mitigate the effects to a point where clearly no significant effect on the environment would occur; and (2) there is no substantial evidence in light of the whole record before the public agency that the project, as revised, may have a significant effect on the environment.

This draft MND has been prepared by the City as the lead agency and is in conformance with Section 15070(a) of the CEQA Guidelines. The purpose of the MND and the Initial Study Checklist/Environmental Evaluation is to determine any potentially significant impacts associated with the proposed project and to incorporate mitigation measures into the project design.

1.3 Content and Format of a Mitigated Negative Declaration

This MND includes the following:

Section 1.0 Introduction: Provides an introduction to the MND.

Section 2.0 Project Description: Provides a detailed description of the proposed project evaluated in this MND. This section also includes project location, project background, project characteristics, purpose and need for the project, proposed construction activities, project design features, and discretionary actions.

Section 3.0 Findings: Provides findings that the project will not have a significant effect on the environment and rationale supporting this finding.

Section 4.0 Initial Study Environmental Checklist: Provides an analysis of environmental issues and concerns surrounding the project.

Section 5.0 Mitigation Monitoring and Reporting Program: Provides a list and responsibility assignments for all mitigation measures. This section also describes timing considerations for each mitigation measure. ~~(Note: To be included in the Final MND.)~~

Section 6.0 References: Provides bibliographic information related to resources utilized during document preparation.

1.4 Public Review Process

In accordance with CEQA, a good-faith effort has been made during the preparation of this MND to contact affected agencies, organizations, and persons who may have an interest in this project.

In reviewing the MND and Initial Study, the affected public should focus 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 proposed project will be avoided or mitigated.

Comments may be made on the MND in writing before the end of the comment period. Following the close of the public comment period, the City will consider this MND and comments thereto in determining whether to approve the proposed project.

Written comments on the MND should be sent to the following address by 5:00 p.m., May 17, 2013.

City of South Pasadena
Public Works Department
Attn: Shin Furukawa
1414 Mission Street
South Pasadena, California 91030-3298

Consideration of approval and adoption of this CEQA document will occur by the City Council. Date and time of the meeting where this document will be considered can be determined by contacting Shin Furukawa.

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2.0 PROJECT DESCRIPTION

2.1 Project Location

The project is located in the City of South Pasadena, Los Angeles County, California. The City is generally located between the City of Pasadena, the City of Alhambra, the City of San Marino, and the City of Los Angeles (Figures 1 and 2).

2.2 Project Background

In 2012, the City signed a Consent Judgment with the State Regional Water Quality Control Board (Los Angeles Region) that stipulated that the City needed to address its failure to comply with the terms of the SWRCB Order No. 2006-0003-DWQ, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems. The City was held civilly responsible for violating Water Code Sections 13350 and/or 13385. As part of the agreement, the City conducted a video analysis of the sewer system and grouped the sewer lines into four categories—"A," "B," "C," or "D"—depending on their condition, with A being the best condition and D being the worst. In addition, localized problems requiring repair were categorized as Group "I," "II," "III," or "IV" depending on the severity of the required repair, with I being the worst condition and IV being the best. The City was mandated to complete repairs on all mains in sewer condition Groups "C" and "D" and spot repair Groups "I" and "II" identified in the City's condition assessment reports. Repairs in the "D" Group and the "I" Group have to be completed within 4 years of the Consent Judgment. Repairs in the "C" Group and the "II" Group have to be completed within 10 years of the Consent Judgment.

2.3 Project Description

The City's Public Works Department is responsible for streets, public buildings, water, sewer systems, storm drains, street lighting, traffic signals, and park maintenance. The department maintains a 58-mile gravity sewer system that is approximately 60 to 90 years old. A recent video investigation of the system identified deficiencies in the system, which is primarily 8-inch vitrified clay pipe (VCP).

The proposed Sewer Rehabilitation and Replacement Project (proposed project) would rehabilitate and replace the City's aging wastewater collection infrastructure. As shown in Figure 3, the proposed project includes rehabilitation of approximately 148,500 linear feet of pipe with a trenchless cured-in-place-pipe (CIPP) technology and replacement of approximately 14,000 linear feet of pipe by open trench construction. Diameters of pipes to be rehabilitated or replaced range from 6 to 18 inches, with the majority being 8 inches in diameter. Pipe segments between manholes can range from about 50 to 400 feet in length.

The location of the work would include in-street and off-street construction. The work would occur using two methodologies, CIPP technology or open trench construction. All but 11 off-street sewer segments, totaling about 1,706 feet, would be rehabilitated using CIPP technology. All of the proposed project impacts are anticipated to be construction-related impacts rather than operational impacts because once the work is completed, the system would operate as it currently does with few, if any, impacts.

Cured-In-Place-Pipe Method

CIPP is a trenchless method that constructs a new pipe within an existing pipe using the existing host pipe as a mold. Work generally would occur in one pipe segment for each set-up, although in some cases, adjacent segments may be rehabilitated with a single continuous CIPP. Work on a segment would first entail establishing a temporary sewage bypass line. A cloth-reinforced flexible hose (typically 4 inches in diameter) would be installed at grade between an upstream and downstream manhole, with a small self-generated pump at the upstream location. An extra standby pump would be on site in case there is pump failure. Where possible, based on the segment location, the bypass line would be laid in gutters. Once the bypass is functional, the pipeline would be cleaned using a hydraulic pressure cleaner. Then, a felt liner saturated with thermal-curing resin would be inserted through a manhole and inverted into the pipe using water or air pressure until fully extended to the next manhole. The liner would then be filled with hot water or steam to seal the liner against the interior of the pipe while simultaneously curing the resin, creating a sealed structural liner within the pipe.

CIPP Construction

Workers and rehabilitation materials would access individual pipeline segments for CIPP lining through existing manholes. Most of the project-related manholes are located within existing street rights-of-way; all others are located within existing City easements through developed areas. Vehicular access to manholes in City easements is preferred, but is not possible in all locations due to manhole locations that are not directly accessible from roadways (e.g., manholes in residential backyards). If there is insufficient easement width for construction equipment, a temporary construction easement would be needed. Work in these locations will require establishing remote work sites that are set up by workers carrying portable material to the work area on foot.

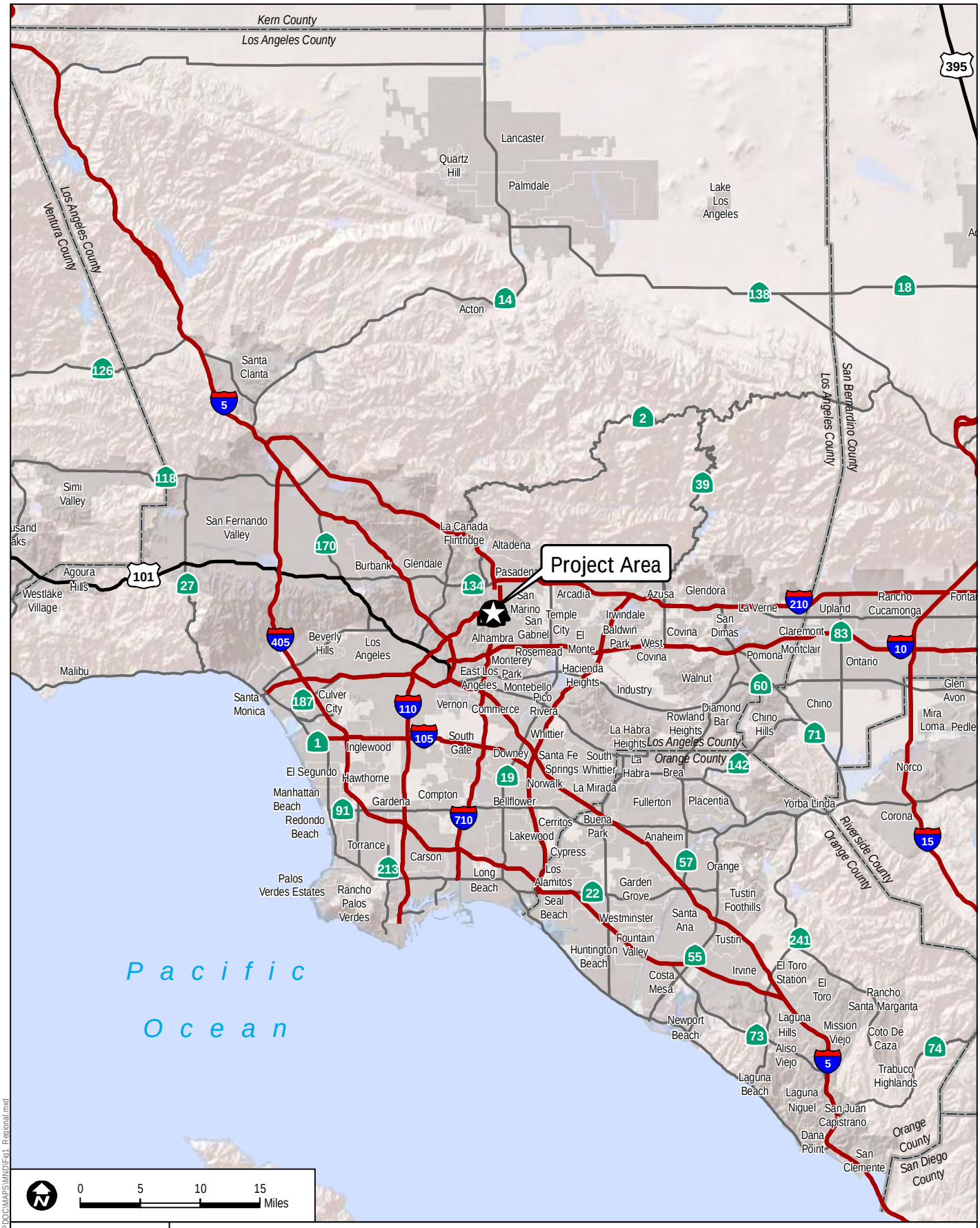

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FIGURE 1

Regional Map

Sewer Rehabilitation and Replacement Project IS/MND

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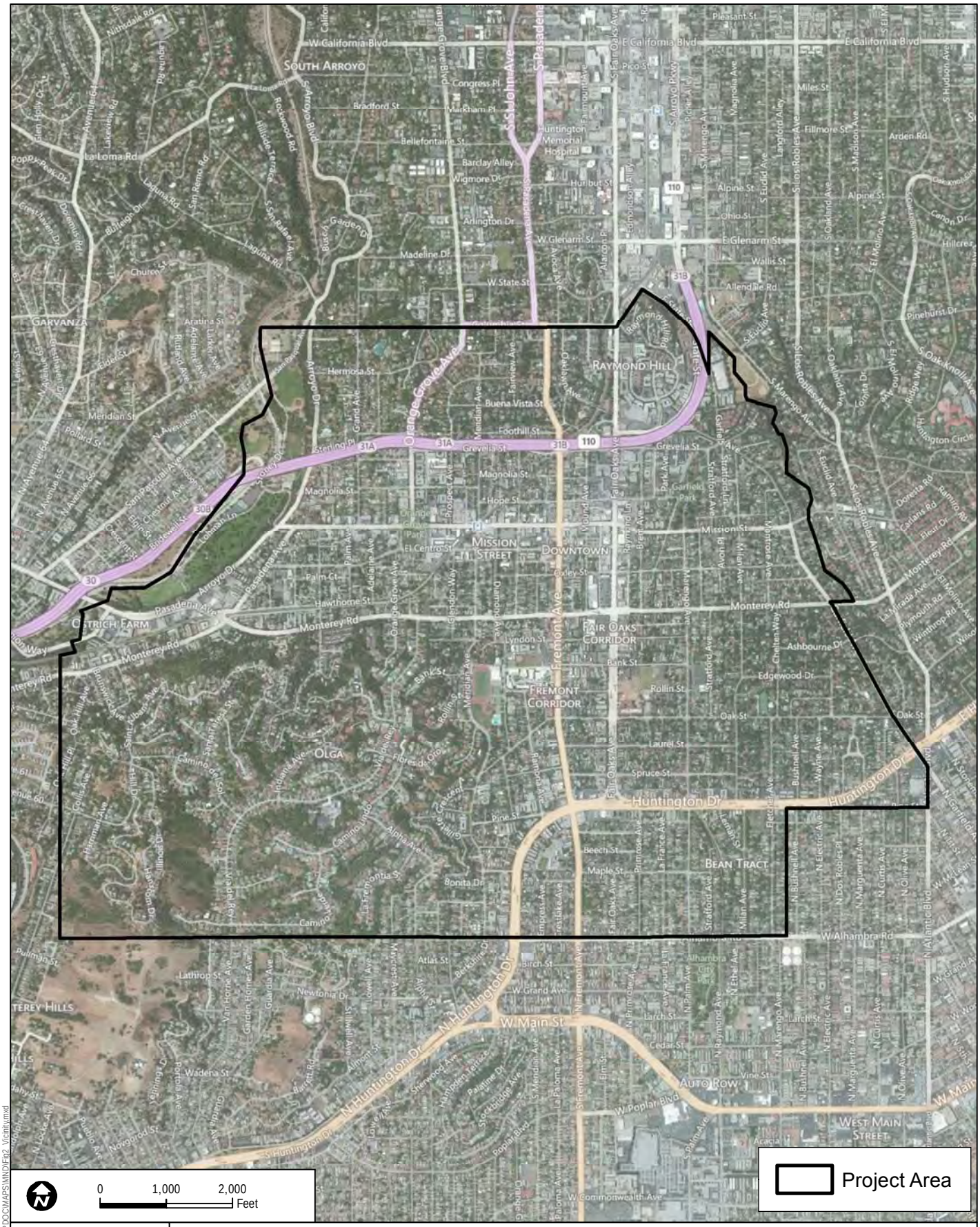

SOURCE: Bing; County of Los Angeles 2012

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FIGURE 2
Vicinity Map

Sewer Rehabilitation and Replacement Project IS/MND

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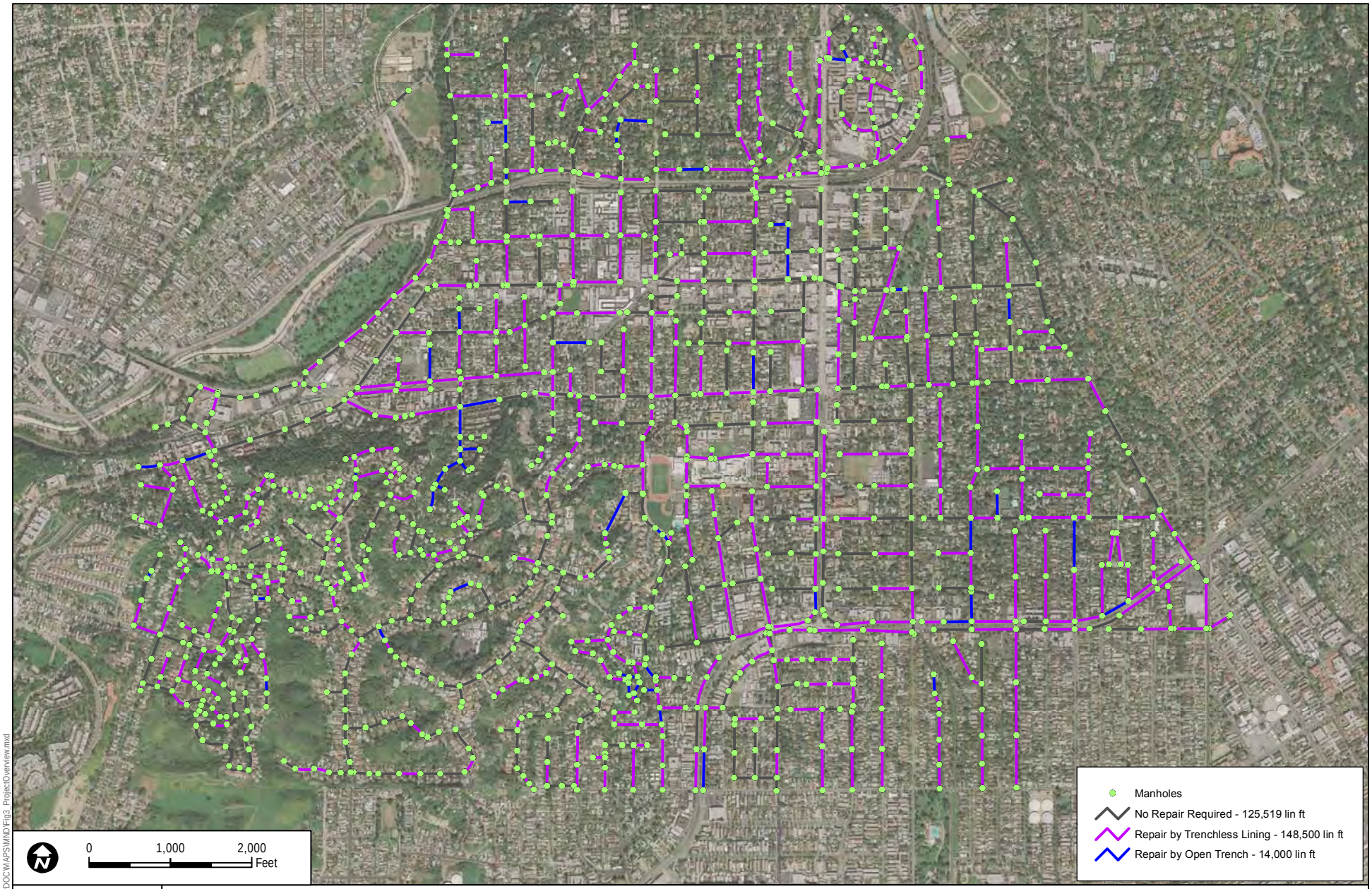

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SOURCE: Bing, City of Pasadena 2012

FIGURE 3

Proposed Project Overview

SEWER REHABILITATION AND REPLACEMENT PROJECT IS/MND

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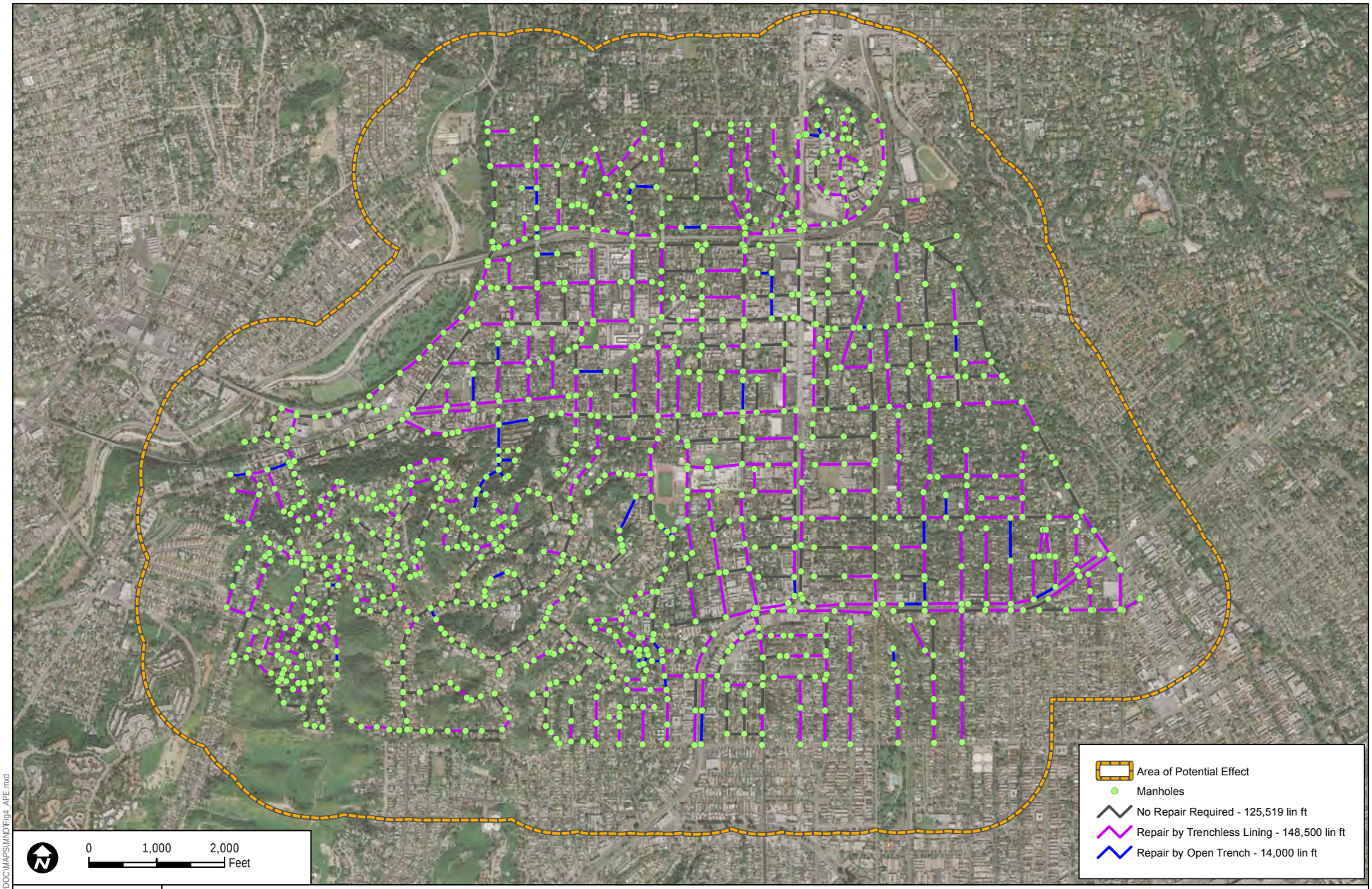

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SOURCE: Digital Globe 2010, City of Pasadena 2012

FIGURE 4

Area of Potential Effect (APE)

SEWER REHABILITATION AND REPLACEMENT PROJECT IS/MND

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Each 50- to 400-foot segment of pipeline would generally be rehabilitated within a single eight-hour workday, and work would generally entail a small crew of three to five people at a time with three to four work trucks and pieces of small equipment that would be staged within the roadway and blocked from traffic by cones and signage. Work trucks would include a sewer cleaning truck, Closed Circuit Television (CCTV) camera van to video the lining process, a refrigerated van containing the liner tube, and a boiler truck for the curing process. Not all of the trucks would be on site at the same time. Traffic control plans would be prepared as part of the project.

CIPP rehabilitation generally requires 8 feet of vertical clearance over each manhole. Where project-related manholes are located in vegetated areas, the project may require some trimming, but no surface-based clearing, grubbing, or grading would be required.

Open Trench Construction

Those pipes that cannot be rehabilitated with the CIPP method would be replaced in place using open trench construction. Open trench construction may be used where there have been severe pipe breaks or offset joints that cannot be lined, to replace existing 6-inch pipes with 8-inch pipes for ease of maintenance, and in cases of sags in the line or large voids around the pipe. Work would include first establishing a temporary sewage bypass line, as described for CIPP construction. Pipe replacement would entail excavation along the existing pipe either at a localized defect or for the entire manhole-to-manhole segment; removal of the existing pipe and possibly the manholes if they are in poor condition; in-place installation of new pipe and possibly new manholes; and backfill and surface repair of the excavated area. All but 11 of these replacement locations are in existing roads, and this excavation would occur in the area directly above and adjacent to the pipeline segment and upstream and downstream manholes, which has been completely disturbed by prior pipeline installation and roadway development. The remaining 11 replacement locations are located within City easements through developed areas.

Replacement of a sewer pipe segment by open trench construction generally requires a crew of four to six people at a time working two to three eight-hour workdays. Work trucks would include a backhoe excavator, a dump truck, and equipment for repaving. Site-specific traffic control plans would be prepared for each segment. Excavated material would be stored within the right-of-way or remain in the dump truck until it is placed back in the trench. Trench depth would typically be 5 to 8 feet deep with a trench width ranging from 2 feet for an 8-inch-diameter pipe to 3.5 feet for an 18-inch-diameter pipe.

2.3.1 Project Objectives

The objectives of the proposed project include the following:

- Repair the segments of the wastewater system in most immediate need of repair in order to comply with the Consent Judgment
- Eliminate the potential for water code violations.

2.3.2 Project Construction

Construction of the proposed project is expected to occur in four phases over a 4-year period. The schedule for the first phase of work is anticipated to commence in August 2013. The first two phases of work would occur in the first 2 years. All phases of work include rehabilitation and replacement of the Condition D and repair Category I pipes.

2.3.3 Discretionary Actions

The following discretionary actions are required for the proposed project:

- Approval of the project and adoption of the MND by the City
- Approval of the Mitigation Monitoring and Reporting Program by the City
- Approval of the CWSRF application by the City
- Approval of CWSRF funding by the state.

3.0 FINDINGS

The City finds that the project will not have a significant adverse effect on the environment based on the results of the Initial Study Environmental Checklist (see Section 4.0). Some potentially significant effects have been identified and mitigation measures have been incorporated into the project to ensure that these effects remain at less-than-significant levels. An MND is, therefore, proposed to satisfy the requirements of CEQA (California Public Resources Code, Section 21000 et seq.) and the CEQA Guidelines (14 CCR 15000 et seq.). This conclusion is supported by the following:

Findings

1. ***Aesthetics***: The project would not have a substantial effect on a scenic vista or substantially degrade the existing visual quality of the site. See Section 4.3, Aesthetics, for additional information.
2. ***Agricultural Resources***: The project would not result in impacts to prime, unique, or farmland of statewide importance. See Section 4.4, Agriculture and Forestry Resources, for additional information.
3. ***Air Quality***: Project-generated construction emissions would be less than the South Coast Air Quality Management District's (SCAQMD's) significance thresholds. The proposed rehabilitated and replaced wastewater pipelines would not generate an increase in operational air pollutant emissions, except for potential future minor pipeline repairs. Motor vehicle trips associated with inspection and maintenance of the pipelines currently occur and would not increase with the proposed improvement project. See Section 4.5, Air Quality, for additional information.
4. ***Biological Resources***: Suitable habitat for 33 special-status plant and wildlife species is present within the project area. Potential for these 33 species to occur was determined to be low, moderate, high, or present (i.e., identified during the survey) depending on individual habitat requirements and habitat present within the project area. Mitigation measures would reduce potential impacts to less-than-significant levels. No impacts to wildlife corridors would occur. See Section 4.6, Biological Resources, for additional information.
5. ***Cultural Resources***: The proposed project would involve in-street and off-street trenching and construction, none of which would affect habitable structures such as historic properties. Additionally, there is a low probability of encountering unknown intact archaeological materials during construction; however, Mitigation Measures CUL-1 through CUL-4 would ensure that any impacts associated with the unexpected discovery of archaeological materials are reduced to a less-than-significant level. See Section 4.7, Cultural Resources, for additional information.

6. ***Geology and Soils***: The proposed project would not expose people or structures to adverse risk associated with geologic or soil conditions and impacts would be less than significant. See Section 4.8, Geology and Soils, for additional information.
7. ***Greenhouse Gas Emissions (GHG):*** Construction of the proposed wastewater pipeline improvements would result in GHG emissions, which are primarily associated with use of off-road construction equipment and vehicles, including the boiler and transport refrigeration units (TRU), and on-road construction and worker vehicles. These emissions would be well below any existing thresholds and construction impacts would therefore be less than significant. During operation, maintenance or repair of pipelines would be temporary and would not result in a substantial source of GHG operational emissions. See Section 4.9, Greenhouse Gas Emissions, for additional information.
8. ***Hazards and Hazardous Materials***: The proposed project would not introduce significant hazardous materials to people or the environment; however, due to the potential for encountering impacted vapors from release sites identified in the proposed project area, Mitigation Measure HAZ-1 is required. See Section 4.10, Hazards and Hazardous Materials, for additional information.
9. ***Hydrology and Water Quality***: The proposed project is required to comply with the National Pollutant Discharge Elimination System (NPDES) for stormwater discharges and general construction activities, and would implement stormwater best management practices (BMPs). Compliance with erosion control and sediment control measures required by City ordinances, regulations, and conditions set forth in the Stormwater Pollution Prevention Plan (SWPPP), would result in less-than-significant water quality impacts. See Section 4.11, Hydrology and Water Quality, for additional information.
10. ***Land Use and Planning:*** The proposed project would not impact land use and planning issues. See Section 4.12, Land Use and Planning, for more information.
11. ***Mineral Resources:*** The proposed project would include sites designated as Mineral Resource Zone (MRZ)-2 but would not involve or preclude mineral resource extraction and therefore would have a less-than-significant impact on mineral resources. See Section 4.13, Mineral Resources, for more information.
12. ***Noise:*** Operation of the proposed project would not result in any noise impacts. Impacts associated with construction noise levels would be less than significant; however, the anticipated noise levels could cause interference with conversations or other normal daytime activities. Mitigation Measures NOI-1 through NOI-7 are required to minimize construction noise to the extent practicable. Refer to Section 4.14, Noise, for more information.

13. ***Population and Housing:*** The project would not have an impact on population and housing, as discussed in Section 4.15, Population and Housing.
14. ***Public Services:*** The proposed project would not result in direct or indirect impacts to public services. See Section 4.16, Public Services, for additional information.
15. ***Recreation:*** The project would not result in impacts to recreation. See Section 4.17, Recreation, for more information.
16. ***Transportation and Traffic:*** During construction, traffic would be generated by equipment delivery and construction worker transport but impacts would be mitigated through implementation of Mitigation Measures TRA-1 through TRA-4. No permanent road closures would result from the proposed project. See Section 4.18, Transportation and Traffic, for additional information.
17. ***Utilities and Service Systems:*** The proposed project would not have an impact on utilities and service systems. In addition, the project would not generate the need for additional utilities and service systems. See Section 4.19, Utilities and Service Systems, for additional information.
18. ***Mandatory Findings of Significance:*** The proposed project would result in less-than-significant impacts with implementation of the mitigation measures required. See Section 4.20, Mandatory Findings of Significance, for more information.

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4.0 INITIAL STUDY ENVIRONMENTAL CHECKLIST

1. **Project title:**

   Sewer Rehabilitation and Replacement Project

2. **Lead agency name and address:**

   City of South Pasadena
   Public Works Department
   1414 Mission Street
   South Pasadena, California 91030-3298

3. **Contact person and phone number:**

   Shin Furukawa, Deputy Public Works Director, 626.403.7246

4. **Project location:**

   City of South Pasadena

5. **Project sponsor's name and address:**

   Same as lead agency:

   City of South Pasadena
   Public Works Department
   1414 Mission Street
   South Pasadena, California 91030-3298

6. **General plan designation:**

   In-street and off-street locations throughout the City (no specific General Plan designation)

7. **Zoning:**

   In-street and off-street locations throughout the City (no specific zoning designation)

8. **Description of project. (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary):**

   Provided in Section 2.0, Project Description, of this MND

9. **Surrounding land uses and setting (Briefly describe the project's surroundings):**

   The proposed project would rehabilitate and replace the City's wastewater collection infrastructure throughout the City. The location of the work would include in-street construction and off-street construction. Surrounding land uses include roads, residences, commercial and institutional uses, parks, and open space. Each location has been evaluated based on the type of surrounding uses and the type of construction required.

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

    The following agency may be responsible agencies under CEQA. They may need to issue approvals for the project and, thus, rely upon this Initial Study:

    - SWRCB
    - Regional Water Quality Control Board (RWQCB)

4.1 Environmental Factors Potentially Affected

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

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

DETERMINATION: (To be completed by the Lead Agency)

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature

4/10/13
Date

4.2 Evaluation of Environmental Impacts

1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an Environmental Impact Report (EIR) is required.
4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).
5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
   a. Earlier Analysis Used. Identify and state where they are available for review.
   b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.

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

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

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

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

9. The explanation of each issue should identify:

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

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

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
I. AESTHETICS – Would the project:				
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐
b) Substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☒	☐
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	☐	☐	☒	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☐	☒

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
II. AGRICULTURE AND FORESTRY RESOURCES – In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒
III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	☐	☐	☒	☐
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	☐	☐	☒	☐
d) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
e) Create objectionable odors affecting a substantial number of people?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
IV. BIOLOGICAL RESOURCES – Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☒	☐	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☒	☐	☐
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☒	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☒	☐	☐
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☒	☐
V. CULTURAL RESOURCES – Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?	☐	☒	☐	☐
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	☐	☒	☐	☐
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☒	☐
d) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. GEOLOGY AND SOILS – Would the project:				
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☒	☐
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☒	☐
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
VII. GREENHOUSE GAS EMISSIONS – Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐
VIII. HAZARDS AND HAZARDOUS MATERIALS – Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☒	☐
d) Be located on a site that 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?	☐	☒	☐	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	☐	☐	☐	☒
f) 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?	☐	☐	☐	☒
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
h) 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?	☐	☐	☐	☒
IX. HYDROLOGY AND WATER QUALITY – Would the project:				
a) Violate any water quality standards or waste discharge requirements?	☐	☐	☒	☐
b) 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 which would not support existing land uses or planned uses for which permits have been granted)?	☐	☐	☐	☒
c) 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 which would result in substantial erosion or siltation on- or off-site?	☐	☐	☐	☒
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	☐	☐	☐	☒

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	☐	☐	☒	☐
f) Otherwise substantially degrade water quality?	☐	☐	☒	☐
g) 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?	☐	☐	☐	☒
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	☐	☐	☐	☒
i) 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?	☐	☐	☐	☒
j) Inundation by seiche, tsunami, or mudflow?	☐	☐	☐	☒
X. LAND USE AND PLANNING – Would the project:				
a) Physically divide an established community?	☐	☐	☐	☒
b) Conflict with any applicable land use 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, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	☐	☐	☒	☐
XI. MINERAL RESOURCES – Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☒	☐
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☒	☐
XII. NOISE – Would the project result in:				
a) 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?	☐	☒	☐	☐
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	☐	☐	☐	☒

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	☐	☒	☐	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒
f) 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?	☐	☐	☐	☒
XIII. POPULATION AND HOUSING – Would the project:				
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☒	☐
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒
XIV. PUBLIC SERVICES				
a) 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 any of the public services:				
Fire protection?	☐	☐	☒	☐
Police protection?	☐	☐	☒	☐
Schools?	☐	☐	☐	☒
Parks?	☐	☐	☐	☒
Other public facilities?	☐	☐	☐	☒
XV. RECREATION				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☒

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI. TRANSPORTATION/TRAFFIC – Would the project:				
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	☐	☒	☐	☐
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	☐	☐	☒	☐
c) 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?	☐	☐	☐	☒
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☒	☐	☐
e) Result in inadequate emergency access?	☐	☒	☐	☐
f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	☐	☒	☐	☐
XVII. UTILITIES AND SERVICE SYSTEMS – Would the project:				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	☐	☐	☒	☐
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☐	☐	☒	☐
c) 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?	☐	☐	☒	☐
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	☐	☐	☒	☐
g) Comply with federal, state, and local statutes and regulations related to solid waste?	☐	☐	☒	☐
XVIII. MANDATORY FINDINGS OF SIGNIFICANCE				
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐
b) Does the project have the potential to achieve short-term environmental goals to the disadvantage of long-term environmental goals?	☐	☐	☒	☐
c) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☐	☒	☐
d) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

4.3 Aesthetics

a) Would the project have a substantial adverse effect on a scenic vista?

Less-than-Significant Impact. The proposed pipelines would be placed below the surface within an existing road right-of-way or public easement and would not change the visual environment once the pipelines are in place. The construction of the pipeline

would be phased over a 4-year period, and upon completion, would not be visible from the surface. Therefore, impacts would be less than significant.

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

Less-than-Significant Impact. Interstate 110 (I-110), known as the Arroyo Seco Historic Parkway, is an officially designated state scenic highway by the California Scenic Highway Mapping System. I-110 runs through the northern portion of South Pasadena and portions of the proposed project are located adjacent to I-110. There are no construction activities proposed for I-110 as part of the project; however, the proposed project includes sites located to the north and south of I-110 that may be visible from some portions of this highway. The project proposes the improvement of wastewater infrastructure, with construction activities limited to the below-grade repair and replacement of existing wastewater pipelines. Therefore, construction activities would not result in substantial damage to scenic resources such as trees, rock outcroppings, and historic buildings, and impacts would be less than significant.

c) Would the project substantially degrade the existing visual character or quality of the site and its surroundings?

Less-than-Significant Impact. The proposed pipelines would be placed subsurface within an existing right-of-way and easements and would not degrade the existing visual character of the site and its surroundings. The existing visual character could be temporarily degraded during project construction, where each segment is anticipated to be under construction for 1 to 3 days; this would be temporary during the construction phases over the 4-year construction period and would not result in a permanent impact. Therefore, the project would have a less-than-significant impact with regard to degrading the existing visual character or quality of the site and its surroundings.

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

No Impact. The proposed pipelines would be placed subsurface within an existing road right-of-way and off-street easements during daytime hours and would not require night-time construction. Therefore, the proposed project would not result in a new source of lighting or glare, and there would be no impact.

4.4 Agriculture and Forestry Resources

a) 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?

No Impact. According to the State of California Department of Conservation Farmland Mapping and Monitoring Program (DOC 2001), the project areas are not designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. Therefore, there would be no impact to these agricultural lands.

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact. The project areas are not zoned for agriculture or part of a Williamson Act contract. Therefore, the proposed project would not conflict with existing zoning for agricultural use or a Williamson Act contract and there would be no impact.

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

No Impact. The proposed pipelines would be located within a road right-of-way and off-street public easements. The areas are not designated as forest land, timberland, or a Timberland Production Zone, as defined by the above-referenced government regulations. Therefore, the proposed project would not conflict with existing zoning of such lands, and there would be no impact.

d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?

No Impact. Refer to response Agricultural Resources (c). No forest land would be lost or converted to non-forest use as a result of the project and there would be no impact.

e) 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 or conversion of forest land to non-forest use?

No Impact. The proposed project would be located within an existing right-of-way or off-street public easements, which are not designated farmland or forest (City of South Pasadena 2001). Therefore, the project would not result in the conversion of additional farmland to non-agricultural use or the conversion of forestland to non-forest use, and there would be no impact.

4.5 Air Quality

a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

Less-Than-Significant Impact. The proposed project 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, and is within the jurisdictional boundaries of the SCAQMD. In December 2012, the SCAQMD adopted a final 2012 Air Quality Management Plan (AQMP), which is designed to meet applicable federal and state requirements for ozone (O_3) and particulate matter. The 2012 AQMP demonstrates attainment of the federal 24-hour particulate matter with a diameter less than or equal to 2.5 microns ($PM_{2.5}$) standard by 2014 in the SCAB through adoption of all feasible measures. The 2012 AQMP also updates the U.S. Environmental Protection Agency (EPA) approved 8-hour O_3 control plan with new measures designed to reduce reliance on the Clean Air Act Section 182 (e)(5) long-term measures for oxides of nitrogen (NO_x) and volatile organic compound (VOC) reductions. Based on general plans for cities and counties in the SCAB, demographic growth forecasts for various socioeconomic categories (e.g., population, housing, employment by industry) developed by the Southern California Association of Governments for their 2012 Regional Transportation Plan were used in the 2012 AQMP. The 2012 AQMP reduction and control measures, which are outlined to mitigate emissions, are based on existing and projected land use and development. The 2012 AQMP was approved by the California Air Resources Board (CARB) on January 25, 2013, and is being reviewed by the EPA.

The project would not conflict with or propose to change existing land uses or applicable policies as designated in the City of South Pasadena General Plan; thus, the project would not conflict with the 2012 AQMP, which is the current applicable air quality plan. The project entails rehabilitation or replacement of existing wastewater

pipelines and would neither increase population nor would it require additional employment. Potential repair or maintenance of the wastewater system would be performed by existing City Public Works Department staff or by a contractor hired by the City. However, the number of employees needed is small (three- to six-person work crews) and would not require large numbers of employees or additional permanent employment positions in the City. Based on these considerations, the proposed project would result in a less-than-significant impact.

b) Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Less-Than-Significant Impact. Project-generated construction emissions would be less than the SCAQMD significance thresholds. The proposed rehabilitated and replaced wastewater pipelines would not generate an increase in operational air pollutant emissions, except for potential future minor pipeline repairs. Motor vehicle trips associated with inspection and maintenance of the pipelines currently occur and would not increase with the proposed project.

SCAB Attainment Designation. An area is designated as in attainment when it is in compliance with the National Ambient Air Quality Standards (NAAQS) and/or the California Ambient Air Quality Standards (CAAQS). These standards are set by the U.S. EPA or CARB, respectively, for the maximum level of a given air pollutant that can exist in the outdoor air without unacceptable effects on human health or the public welfare. The criteria pollutants of primary concern that are considered in this air quality assessment include O_3, nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), and particulate matter with a diameter less than or equal to 10 microns (PM_{10}) and $PM_{2.5}$. Although there are no ambient standards for VOCs or NO_x, they are important as precursors to O_3.

The entire SCAB is designated as a nonattainment area for both federal and state O_3 standards. The U.S. EPA has classified the SCAB as an “extreme” nonattainment area and has mandated that the SCAB achieve attainment by no later than June 15, 2024. The entire SCAB has not exceeded the federal standards for NO_2 in the past 5 years based on published monitoring data and is currently designated as an attainment area under the federal standards. The federal NO_2 standards were revised in 2010, and all areas of California have been designated unclassifiable/attainment. The SCAB is designated as a nonattainment area for the state NO_2 standards. The SCAB is designated as an attainment area for federal and state CO and SO_2 standards. The SCAB is in attainment with federal lead standards. The Los Angeles County portion of

the SCAB is in nonattainment with the state lead standard; however, the remaining portion of the SCAB is in attainment with state lead standards. The SCAB is designated as a "serious" nonattainment area for the federal PM_{10} standard and as a nonattainment area for state PM_{10} standards. With regard to $PM_{2.5}$ attainment status, the SCAB is designated as a nonattainment area by CARB and the EPA.

SCAQMD Thresholds. Construction of the proposed project would result in emissions of criteria air pollutants for which CARB and the EPA have adopted ambient air quality standards (i.e., the NAAQS and CAAQS). Projects that emit these pollutants have the potential to cause or contribute to violations of these standards. The SCAQMD has adopted significance thresholds, which, if exceeded, would indicate the potential to contribute to violations of the NAAQS or CAAQS. The relevant SCAQMD thresholds are shown in Table 1. Only those thresholds related to potentially significant construction impacts are identified in Table 1 as the proposed project would not generate an increase in criteria pollutant emissions or related impacts associated with operation of the rehabilitated wastewater pipelines.

Table 1
SCAQMD Air Quality Significance Thresholds

Pollutant	Construction
Criteria Pollutants Mass Daily Thresholds	
VOC	75 pounds/day
NO_x	100 pounds/day
CO	550 pounds/day
SO_x	150 pounds/day
PM_{10}	150 pounds/day
$PM_{2.5}$	55 pounds/day

Source: SCAQMD 2011.

Construction Emissions. Construction of the proposed pipeline rehabilitation and replacement project would result in a temporary addition of pollutants to the local airshed caused by soil disturbance, dust emissions, and combustion pollutants from on-site construction equipment, as well as from worker vehicles, vendor trucks, and off-site trucks hauling construction materials. NO_x and CO emissions would primarily result from the use of construction equipment and motor vehicles. Fugitive dust emissions would primarily result from trenching activities during pipeline replacement. Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and, for dust, the prevailing weather conditions. Therefore,

such emission levels can 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 the California Emission Estimator Model (CalEEMod) Version 2011.1.1, available online (www.caleemod.com). It was assumed that construction would commence in August 2013 and would reach completion in August 2017. It was conservatively assumed for the air quality analysis that open trench construction would only occur during the first year of construction, while CIPP construction would occur over the 4-year duration. To estimate a maximum daily or worst-case scenario, it was assumed that one contractor performing pipeline rehabilitation (trenchless CIPP construction) and one contractor performing pipeline replacement (open trench construction) would work simultaneously during the first year of construction (i.e., 2013-2014).

A CIPP construction crew would complete one to two segments per 8-hour workday to rehabilitate a total of 148,500 feet of wastewater pipeline. It was assumed that a single CIPP construction crew would complete an average of approximately 250 feet of pipeline rehabilitation per day and operate approximately 150 days per year (approximately 600 days over the entire construction duration). A CIPP construction crew would involve 3 to 5 workers per day and operation of small pieces of equipment, including one self-powered freestanding pump and one hydraulic pressure cleaner. Pipeline rehabilitation would also require 3 to 4 work trucks, including a sewer cleaning truck, and CCT camera van, a refrigerated van containing the liner tube, and a boiler truck for the curing process.

Open trench construction to install replacement pipeline would involve 4 to 6 people to complete one segment over two or three 8-hour days. Average segment length would be 250 feet; therefore, it was assumed that approximately 100 feet per day of replacement pipeline would be installed over the first year of construction. A total of 140 days from August 2013 to August 2014 of open trench construction would occur to replace a total of 14,000 feet of wastewater pipeline. It was assumed that one backhoe excavator (modeled as a tractor/loader/backhoe) and one paver would be needed for trenching, existing pipeline removal, replacement pipeline installation, and repaving. One dump truck would be used to store excavated material, which would be placed back into the trench. Accordingly, it is anticipated that trenching activities would require very minimal soil export; nonetheless, five round-trip haul truck trips were assumed during the trenching phase to account for potential export of excavated material. Paving would occur periodically throughout the open trench construction.

The boiler truck would generate emissions from the propane-fired boiler used during the CIPP curing process. The nominal rating of the propane-fired boiler is 100 horsepower, which is equivalent to a heat input rating of 4.2 million British thermal units per hour. It was assumed to operate at its full rating for 8 hours per day to provide steam for curing the pipeline lining. The NO_x emissions generated by the boiler are based on compliance with SCAQMD Rule 1146.1 (Emissions of Oxides of Nitrogen from Small Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters). The reactive organic gas (ROG), CO, SO_x, PM_{10}, and $PM_{2.5}$ emissions generated by the boiler were estimated using emission factors from Section 1.5 (Liquefied Petroleum Gas Combustion) of the EPA's *Compilation of Air Pollutant Emission* Factors (AP-42) (EPA 2008). Boiler truck travel emissions were included in the CalEEMod calculation for vendor truck trips during the CIPP construction phase.

Emissions associated with the refrigeration system in the van containing the CIPP liner tube was estimated using emission factors for diesel-powered TRU from OFFROAD2007, available online (http://www.arb.ca.gov/msei/offroad/ offroad.htm). Emission factors in pounds-per-hour for a nominal 50-horsepower TRU were assumed to estimate daily emissions of ROG, CO, SO_x, PM_{10}, and $PM_{2.5}$. Diesel truck emissions generated during travel to and from the pipeline improvement sites were estimated in the CalEEMod calculation for vendor truck trips.

The maximum daily construction scenario assumes concurrent operation of two construction crews—one performing CIPP construction and one performing open trench construction—and the associated worker trips, vendor trips, and haul truck trips as well as equipment operation for 8 hours per day, and operation of the boiler and TRU. Details of the construction emission assumptions and calculations are included in Appendix A.

Table 2 shows the estimated maximum unmitigated daily construction emissions associated with the construction of the proposed project.

Table 2
Estimated Daily Maximum Construction Emissions (lbs./day unmitigated)

	VOC	NOx	CO	SOx	PM10	PM2.5
2013						
CIPP and Open Trench Construction	2.98	19.09	14.18	0.02	2.22	1.48
Boiler Operation	0.29	1.22	2.75	0.55	0.26	0.26
TRU Operation	0.26	1.79	1.72	0.00	0.10	0.09
Combined Total	*3.53*	*22.10*	*18.65*	*0.57*	*2.58*	*1.83*

Table 2
Estimated Daily Maximum Construction Emissions (lbs./day unmitigated)

	VOC	NOx	CO	SOx	PM10	PM2.5
2014						
CIPP and Open Trench Construction	2.76	17.91	13.83	0.02	2.10	1.35
Boiler Operation	0.29	1.22	2.75	0.55	0.26	0.26
TRU Operation	0.26	1.79	1.72	0.00	0.10	0.09
Combined Total	*3.31*	*20.92*	*18.30*	*0.57*	*2.46*	*1.70*
2015						
CIPP Construction	0.95	6.85	5.45	0.01	0.69	0.46
Boiler Operation	0.29	1.22	2.75	0.55	0.26	0.26
TRU Operation	0.26	1.79	1.72	0.00	0.10	0.09
Combined Total	*1.50*	*9.86*	*9.92*	*0.56*	*1.05*	*0.81*
2016						
CIPP Construction	0.86	6.35	5.33	0.01	0.64	0.41
Boiler Operation	0.29	1.22	2.75	0.55	0.26	0.26
TRU Operation	0.26	1.79	1.72	0.00	0.10	0.09
Combined Total	*1.41*	*9.36*	*9.80*	*0.56*	*1.00*	*0.76*
2017						
CIPP Construction	0.78	5.88	5.21	0.01	0.60	0.37
Boiler Operation	0.29	1.22	2.75	0.55	0.26	0.26
TRU Operation	0.26	1.79	1.72	0.00	0.10	0.09
Combined Total	*1.33*	*8.89*	*9.68*	*0.56*	*0.96*	*0.72*
Maximum Daily Emissions	3.53	22.10	18.65	0.57	2.58	1.83
Significance Threshold	*75*	*100*	*550*	*150*	*150*	*55*
Threshold Exceeded?	No	No	No	No	No	No

Notes: See Appendix A for complete results.
The PM_{10} and $PM_{2.5}$ estimates reflect control of fugitive dust required by Rule 403.

As shown in Table 2, daily construction emissions would not exceed the daily maximum thresholds for VOC, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$. As such, the proposed project would result in a less-than-significant impact during construction.

Fugitive dust suppression techniques, such as frequent light sprays of water and covering of spoil piles would be performed by the construction contractor during construction activities. In addition, the project contractors must adhere to SCAQMD Rules during construction-related activities: 401 (Visible Emissions), 403 (Fugitive Dust Control), 431.2 (Low Sulfur Fuel), and 1186/1186.1 (Street Sweepers). These construction measures would reduce potential project-generated fugitive dust emissions.

Operational Emissions. Once the wastewater pipelines are rehabilitated or replaced, no additional routine daily operational activities that would generate air pollutant emissions would occur. Operational vehicle trips associated with inspection, maintenance, and repair of the pipeline facility would periodically occur; however, inspection and maintenance activities are already occurring in the existing condition as performed by the City Public Works Department. In the event that repair of the pipelines would be required, a portion of a localized portion of the wastewater pipeline system may occur, as analyzed in the proposed project's construction emissions assessment (Appendix A). However, maintenance or repair activity would likely result in fewer emissions compared to the analyzed construction scenario that assumes simultaneous construction of two larger portions of the project area, in addition to emissions associated with truck trips. These potential repair activities would be temporary and would not be a source of long-term operational emissions. As the project would not result in a new land use that would involve operational activities, air quality impacts associated with operational air pollutant emissions would be less than significant.

c) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors)?

Less-Than-Significant Impact. The SCAB is a nonattainment area for O_3, NO_2, PM_{10}, and $PM_{2.5}$ under the NAAQS and/or CAAQS. The poor air quality in the SCAB is the result of cumulative emissions from motor vehicles, off-road equipment, commercial and industrial facilities, and other emission sources. Projects that emit these pollutants or their precursors (e.g., VOC and NO_x for O_3,) potentially contribute to poor air quality. As indicated in Table 2, the construction emissions from the proposed project would not exceed SCAQMD significance thresholds. The proposed project is not anticipated to generate an increase in operational emissions. Furthermore, the project would not conflict with the SCAQMD 2012 AQMP, which addresses the cumulative emissions in the SCAB. Accordingly, the proposed project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants. Thus, this impact would be less than significant.

d) Would the project expose sensitive receptors to substantial pollutant concentrations?

Less-Than-Significant Impact. The proposed project would entail relining of approximately 148,000 linear feet of pipeline and open trench repair of 14,000 linear feet of pipeline, which would both be constructed in a linear sequence. Sensitive receptors, such as residences, could potentially be located near proposed construction activity within the project area. However, the construction site, which is anticipated to range from 100 to 250 linear feet per day, would relocate daily.

As shown in Table 2, Estimated Daily Maximum Construction Emissions, construction activities would not generate substantial emissions of toxic air contaminants, specifically diesel exhaust particulate matter, and impacts to sensitive receptors in the vicinity of project construction would be less than significant. The maximum amount of diesel equipment operating simultaneously would be one excavator backhoe and one paver during open trench construction, or one freestanding pump, one hydraulic pressure cleaner, one propane-fueled boiler, and one TRU during CIPP construction. Operation of equipment during all phases of construction would occur for a very short duration (i.e., 1 to 3 days) in any one area. Diesel equipment would also be subject to the Airborne Toxic Control Measure for in-use mobile construction equipment promulgated by CARB, which would minimize diesel particulate matter emissions.

Operation of the proposed wastewater pipelines would not result in direct emissions (e.g., those from a point source such as boilers or engines). Thus, it would not result in exposure to sensitive receptors in the vicinity of the rehabilitated or replaced pipelines.

e) Would the project create objectionable odors affecting a substantial number of people?

Less-Than-Significant Impact. Odors are a form of air pollution that is most obvious to the general public. Odors can present problems for both the source and surrounding community. Although offensive odors seldom cause physical harm, they can be annoying and cause concern. Construction and operation of the proposed wastewater pipelines would not create objectionable odors affecting a substantial number of people.

Construction Odor Impacts. Potential sources that may emit odors during construction activities include diesel equipment and gasoline fumes and asphalt paving material. Odors from these sources would be localized and generally confined to the project site. The proposed project would rehabilitate or install pipelines in a linear fashion, with CIPP construction contractors rehabilitating approximately 250 feet of pipeline per day and open trench contractors replacing approximately 100 feet per day; therefore, construction activity

would not occur in one location for an extended period of time. Odors from the resins used for CIPP lining may occur; however, similar to other construction-generated odors, they would be transitory and would dissipate within hours as the pipe liner cures. The proposed project would utilize typical construction techniques in compliance with SCAQMD rules. Additionally, the odors would be temporary. As such, proposed project construction would not cause an odor nuisance, and odor impacts would be less than significant.

Operational Odor Impacts. Land uses and industrial operations that are associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 2011). The proposed project entails improvements to existing wastewater pipelines and would not result in the creation of a land use that is commonly associated with odors. Existing wastewater pipelines are located underground; the replacement and rehabilitated wastewater pipelines would also be located underground and would not produce a source of odor. Therefore, project operations would result in a less-than-significant odor impact.

4.6 Biological Resources

a) 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?

Less-than-Significant Impact with Mitigation Incorporated. Dudek conducted a biological constraints survey in March 2013 to evaluate the potential for special-status plant and wildlife species, jurisdictional waters, and other regulated resources to occur within the proposed project areas located within natural habitat. The biological survey covered 22 sewer pipeline segments that occur at least partially in natural habitat. Additionally, an assessment of 36 manholes associated with the 22 sewer pipeline segments was completed due to the necessary vegetation trimming around these existing structures during project implementation. Figure 3 illustrates the sewer pipeline segments that would require trenchless lining and open trench repair activities. Appendix B contains the entire biological constraints survey and report, including a comprehensive listing of special-status species potentially occurring in the project vicinity.

The proposed project activities would occur primarily in developed areas and as a result, the potential for direct or indirect impacts to special-status species on a project-wide scale is low. Localized project activities, including vegetation trimming and trenching at

locations included in the project area and in private yards, have the potential to impact special-status species and therefore, additional actions are recommended to comply with the state and federal Endangered Species Acts and the California Fish and Wildlife Code.

Suitable habitat for 33 special-status plant and wildlife species is present within the project area. Potential for these 33 species to occur was determined to be low, moderate, high, or present (i.e., identified during the survey) depending on individual habitat requirements and habitat present within the project area. A total of 10 special-status species have low potential to occur within the project area, including Cooper's hawk (*Accipiter cooperii*), sharp-shinned hawk (*Accipiter striatus*), burrowing owl (*Athene cunicularia*), cactus wren (*Campylorhynchus brunneicapillus*), rosy boa (*Charina trivirgata*), black swift (*Cypseloides niger*), American peregrine falcon (*Falco peregrinus anatum*), American badger (*Taxidea taxus*), Los Angeles pocket mouse (*Perognathus longimembris brevinasus*), and Parish's gooseberry (*Ribes divaricatum* var. *parishii*). A total of 22 special-status species have moderate potential to occur within the project area, including pallid bat (*Antrozous pallidus*), coastal whiptail (*Aspidoscelis tigris stejnegeri*), western mastiff bat (*Eumops perotis californicus*), silver-haired bat (*Lasionycteris noctivagans*), hoary bat (*Lasiurus cinereus*), San Diego desert woodrat (*Neotoma lepida intermedia*), coast horned lizard (*Phrynosoma blainvillii*), western spleenwort (*Asplenium vespertinum*), Braunton's milk-vetch (*Astragalus brauntonii*), round-leaved filaree (*California macrophylla*), Plummer's mariposa lily (*Calochortus plummerae*), intermediate mariposa lily (*Calochortus weedii* var. *intermedius*), Lewis' evening-primrose (*Camissoniopsis lewisii*), many-stemmed dudleya (*Dudleya multicaulis*), mesa horkelia (*Horkelia cuneata* ssp. *puberula*), fragrant pitcher sage (*Lepechinia fragrans*), Robinson's pepper-grass (*Lepidium virginicum* var. *robinsonii*), ocellated Humboldt lily (*Lilium humboldtii* ssp. *ocellatum*), Davidson's bush-mallow (*Malacothamnus davidsonii*), Hubby's phacelia (*Phacelia hubbyi*), white rabbit-tobacco (*Pseudognaphalium leucocephalum*), and Engelmann oak (*Quercus engelmannii*). One special-status species, southern California black walnut (*Juglans californica*), was identified within segment 197A–197B during the survey. No special-status species were determined to have high potential to occur within the project area based on available habitat.

To avoid impacts to migratory bird species protected under the Migratory Bird Treaty Act (MBTA), the City and/or City's construction contractor should conduct tree and vegetation trimming/clearing during the non-nesting season for birds, which generally extends from September through February. If tree and vegetation trimming/clearing needs to occur from March through August, then a pre-construction nesting bird survey to

be completed by a qualified biological monitor no more than 72 hours prior to the start of work would be required. If breeding or nesting birds are found within or immediately adjacent to work areas then additional coordination with the U.S. Fish and Wildlife Service (USFWS) and/or the California Department of Fish and Wildlife (CDFW) may be required to comply with the federal MBTA of 1918 (16 U.S.C. 703 et seq.) and California Fish and Wildlife Code.

Due to the potential for special-status species to occur in the proposed project area, the following mitigation measures are required to avoid or minimize potential impacts and maintain compliance with established laws and regulations:

Mitigation Measures

BIO-1 The City shall conduct a pre-construction biological survey for special-status species determined to have potential to occur in suitable habitat within the project area no more than 72 hours prior to the start of construction activities.

BIO-2 The City shall conduct biological surveys at the segments indicated in Table 3 for potentially occurring special-status plant species during spring and fall to ensure avoidance during construction. Surveys should be conducted in suitable habitat during the appropriate blooming period for each plant species, which are as follows: western spleenwort (February–June), Braunton's milk-vetch (January–August), round-leaved filaree (March–May), Plummer's mariposa lily (May–July), intermediate mariposa lily (May–July), Lewis' evening-primrose (March–June), many-stemmed dudleya (April–July), mesa horkelia (February–July), fragrant pitcher sage (March–October), Robinson's pepper-grass (January–July), ocellated Humboldt lily (March–August), Davidson's bush-mallow (June–January), Hubby's phacelia (April–June), white rabbit-tobacco (August–November), Parish's gooseberry (February–April), and Engelmann oak (March–June). Survey needs are presented in Table 3.

Table 3
Rare Plant Surveys

Segment ID	Species Included in Rare Plant Survey
59B59C	None
59C59D	None
215C215D`	None

Table 3
Rare Plant Surveys

Segment ID	Species Included in Rare Plant Survey
207F207G	western spleenwort, Braunton's milk-vetch, Plummer's mariposa lily, intermediate mariposa lily, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco, Parish's gooseberry
207G207H	western spleenwort, Braunton's milk-vetch, Plummer's mariposa lily, intermediate mariposa lily, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco, Parish's gooseberry
204C204E	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco
186J186K	None
178G165J	western spleenwort, Braunton's milk-vetch, round-leaved filaree, Plummer's mariposa lily, intermediate mariposa lily, Lewis' evening-primrose, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco
178E178F	western spleenwort, Braunton's milk-vetch, round-leaved filaree, Plummer's mariposa lily, intermediate mariposa lily, Lewis' evening-primrose, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco
178F176E	western spleenwort, Braunton's milk-vetch, round-leaved filaree, Plummer's mariposa lily, intermediate mariposa lily, Lewis' evening-primrose, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco
176E176F	western spleenwort, Braunton's milk-vetch, round-leaved filaree, Plummer's mariposa lily, intermediate mariposa lily, Lewis' evening-primrose, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco
202A202B	western spleenwort, round-leaved filaree, Plummer's mariposa lily, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco
202B202C	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's, white rabbit-tobacco bush mallow
202E142A	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco
197A197B	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco
164A164B	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco
175F185G	None
194C189B	western spleenwort, Braunton's milk-vetch, round-leaved filaree, Plummer's mariposa lily, intermediate mariposa lily, Lewis' evening-primrose, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco, Engelmann oak

Table 3
Rare Plant Surveys

Segment ID	Species Included in Rare Plant Survey
194B194C	western spleenwort, Braunton's milk-vetch, round-leaved filaree, Plummer's mariposa lily, intermediate mariposa lily, Lewis' evening-primrose, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco, Engelmann oak
194A194B	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco, Engelmann oak
194D194B	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco, Engelmann oak
174J174K	western spleenwort, round-leaved filaree, Plummer's mariposa lily, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco

BIO-3 The City shall coordinate with CDFW if southern California black walnut trees present within the project area are determined to require trimming or removal to facilitate the proposed project.

BIO-4 The City's construction contractor shall obtain the appropriate permits from the City of South Pasadena for tree trimming or removal regulated under the City's tree regulations.

BIO-5 The City's construction contractor shall limit motor vehicle access to maintained roads and designated routes where possible.

b) 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 U.S. Fish and Wildlife Service?

Less-than-Significant Impact with Mitigation Incorporated. Results of the habitat assessment and evaluation of potential jurisdictional aquatic resources at the 22 pipeline segments and the associated 36 manhole locations within the project area are summarized in Table 4, which includes pipeline segment reference name (Segment ID), length, proposed method of construction, and associated vegetation community within the project area.

Table 4
Study Area Summary

Segment ID	Length (feet)	Construction Method	Vegetation Community
59B59C	12	Open Trench	Developed/Non- Non-Native Woodland (Ornamental)
59C59D	239	CIPP	Developed/Non-Native Woodland (Ornamental)
215C215D	208	CIPP	Non-Native Woodland (Ornamental)
207F207G	58	CIPP	Mixed Chaparral
207G207H	98	CIPP	Mixed Chaparral
204C204E	331	CIPP	Non-Native Woodland (Ornamental)
186J186K	131	CIPP	Non-Native Woodland (Ornamental)
178G165J	146	CIPP	Non-Native Woodland (Ornamental)/Mixed Chaparral
178E178F	151	CIPP	Non-Native Woodland (Ornamental)/Mixed Chaparral
178F176E	54	CIPP	Non-Native Woodland (Ornamental)/Mixed Chaparral
176E176F	82	CIPP	Non-Native Woodland (Ornamental)/Mixed Chaparral
202A202B	114	CIPP	Non-Native Woodland (Ornamental)
202B202C	121	CIPP	Non-Native Woodland (Ornamental)
202E142A	164	CIPP	Non-Native Woodland (Ornamental)
197A197B	163	CIPP	California Walnut Woodland
164A164B	260	CIPP	Non-Native Woodland (Ornamental)
175F185G	157	Open Trench	Non-Native Woodland (Ornamental)/Coast Live Oak Woodland
194C189B	158	CIPP	Mixed Chaparral/Coast Live Oak Woodland
194B194C	133	CIPP	Mixed Chaparral/ Coast Live Oak Woodland
194A194B	36	CIPP	Coast Live Oak Woodland
194D194B	101	CIPP	Coast Live Oak Woodland
174J174K	9	CIPP	Non-Native Woodland (Ornamental)

As described above in response Biological Resources (a), suitable habitat for 33 special-status plant and wildlife species is present within the project area. Potential for these 33 species to occur was determined to be low, moderate, high, or present (i.e., identified during the survey) depending on individual habitat requirements and habitat present within the project area. Therefore, implementation of Mitigation Measures BIO-1 through BIO-5 would reduce potential impacts to less-than-significant levels. With incorporation of these mitigation measures, potential impacts to sensitive habitat would be less than significant.

c) 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?

No Impact. As part of the biological constraints survey report, the project area was evaluated for the potential to support jurisdictional waters regulated under the federal Clean Water Act, California Fish and Game Code, and Porter-Cologne Water Quality Act (see Appendix B). None of the surveyed areas had potential for jurisdictional waters and therefore, no impact would occur.

d) 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?

Less-than-Significant Impact. Wildlife corridors are linear features that connect large patches of natural open space and provide avenues for the migration of animals. The many trees and other shrubs in the project area could provide potential nesting and foraging habitat for a variety of songbirds and raptors in the area and therefore, as described above in response Biological Resources (a), direct impacts to migratory nesting birds must be avoided in compliance with the MBTA. To avoid impacts to migratory bird species protected under the MBTA, the City and/or City's construction contractor should conduct tree and vegetation trimming/clearing during the non-nesting season for birds, which generally extends from September through February. If tree and vegetation trimming/clearing needs to occur from March through August, then a pre-construction nesting bird survey to be completed by a qualified biological monitor no more than 72 hours prior to the start of work is required. If breeding or nesting birds are found within or immediately adjacent to work areas then additional coordination with the USFWS and/or the CDFW may be required to comply with the federal MBTA of 1918 (16 U.S.C. 703 et seq.) and California Fish and Wildlife Code.

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

Less-than-Significant Impact with Mitigation Incorporated. There are many trees within the project area as identified in the biological constraints survey and report (Appendix B). The City has existing tree regulations covering the trimming or removal of several species including oaks (all species), coast redwood (*Sequoia*

sempervirens), giant redwood (*Sequoiadendron giganteum*), dawn redwood (*Metasequoia glyptostroboides*), California walnut (*Juglans californica*), sycamore (*Platanus racemosa*), Christmas berry (*Heteromeles arbutifolia*), blue elderberry/Mexican elderberry (*Sambucus nigra* ssp. *caerulea*), and heritage trees (as established by the South Pasadena Planning and Building Department). Additionally, trees of any variety over 12 inches in diameter proposed to be removed are regulated by the City (City of South Pasadena 2011). Several types of trees are identified in the biological constraints survey and report (see Appendix B) and removal of such trees is required to comply with all applicable regulations and policies. Compliance with Mitigation Measures BIO-4 and BIO-5 would ensure that potential impacts to a tree preservation ordinance or policy are less than significant.

f) 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?

Less-than-Significant Impact. There are no adopted Habitat Conservation Plans, Natural Community Conservation Plans, or other habitat conservation plans governing the project area beyond what is described above in responses Biological Resources (a) through (e). As discussed above, impacts related to biological resources and governed by local, regional, or state habitat conservation plans would be reduced to less-than-significant levels through implementation of the required mitigation measures.

4.7 Cultural Resources

a) Would the project cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5 of the CEQA Guidelines?

Less-than-Significant Impact with Mitigation Incorporated. According to CEQA Guidelines Section 15064.5, a project involves "a substantial adverse change" when one or more of the following occurs:

Substantial adverse change in the significance of a historic resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of a historic resource would be materially impaired.

The significance of a historical resource is materially impaired when a project:

- Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register of Historical Resources; or
- Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of Section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant or
- Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register of Historical Resources as determined by a lead agency for the purposes of CEQA.

As such, substantial adverse effects may include, but are not limited to, physical destruction or damage to all or part of a historic property caused by vibration and/or sound; removal of the property from its historic location; isolation from or change of features within the property's historic setting; visual, atmospheric, or audible intrusions; foreseeable effects that may occur later in time or farther removed in distance; and cumulative effects.

The existing streetscape pattern, including sidewalks detached from the curb by linear planting strips and mature large-canopy trees is one of the most character-defining aspects of the historic residential neighborhoods in South Pasadena (City of South Pasadena 2009). Therefore, any alterations should maintain the traditional landscape character and sidewalk design of the existing streetscape pattern; retain the existing sidewalks, separate from the curb with planting strip; any new or replacement sidewalks should be similar to the existing in location, size, and concrete texture and color; protect and maintain vegetation in the planting strips; and replace planted areas with drought-tolerant, native, or water-wise green plants to replace thirsty lawns, but not with hardscape or impervious materials. Alterations should avoid removal of large healthy mature street trees, damage to historic retaining walls and curbs, and repair or replacement of paving that does not retain the existing pattern of pathways and driveways (City of South Pasadena 2009).

To be eligible for listing in the National Register and California Register, and as applied at the local level, a property must not only be shown to be historically significant under the applicable criteria (federal, state, and local), but it must also have integrity. Integrity is defined as the ability of a property to convey its significance. Pursuant to CEQA, projects that may compromise the integrity of a property, and therefore compromise its historical significance, may be adverse.

The Secretary of the Interior's (SOI's) Standards for Rehabilitation are codified at 36 Code of Federal Regulations (CFR) Section 67.7. The SOI standards are designed to ensure that rehabilitation does not impair the significance of a historic property. In most circumstances, the SOI standards are relevant in assessing whether there is a substantial adverse change under CEQA. Section 15064.5b(3) of the CEQA Guidelines states in part that "…a project that follows the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings or the Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings (1995), Weeks and Grimmer, shall be considered as mitigated to a level of less than a significant impact on the historic resource."

As stated above, historical resources typically include properties eligible or potentially eligible for the National Register of Historic Places, as well as those that may be significant pursuant to state and local laws and registration programs, such as the California Register of Historical Resources or the City's local landmarks. A records search was performed for the project area and a 0.25-mile radius around the project at the South Central Coast Information Center (SCCIC) at California State University, Fullerton, in March 2013, and is summarized in Appendix C. The evaluated Area of Potential Effect (APE) is shown in Figure 4, Area of Potential Effect (APE). The records search also included a search of the California Points of Historical Interest (PHI), the California Historical Landmarks (CHL), the National Register of Historic Places (NRHP), and the California State Historic Resources Inventory (HRI) listings. The records search results were reviewed to determine the likelihood of unknown archaeological resources in the project area.

The records search identified 1 archaeological site and 273 aboveground historic resources within the record search area. Of these, 98 of the aboveground historic resources are in the project area while the remaining historic resources and the archaeological site are located within the 0.25-mile radius. The HRI lists 1,045 properties in the City that have been evaluated for historic significance. The CRHR lists 157 properties within the project area that are listed as NRHP Status 1 or 2, a CHL numbering 770 and higher, or a PHI listed after January 1, 1998. The NRHP

lists 21 properties within the project area. Seven of the historic structures are located within the southwest portion of the project area.

The City has identified 5 historic districts and 41 historic landmarks within the City (City of South Pasadena 2013). The proposed project would involve in-street and off-street trenching and sewer pipeline replacement, and would be located entirely underground. While construction activities would occur in the street or in public easements, work could occur within designated historic districts and could affect designated historic structures if work were to remove sidewalks, pathways, walls, trees, or landscaping. The following mitigation measures would be required to reduce impacts to historic structures and districts to less than significant.

Mitigation Measures

CUL-1 If construction activities occur within a designated historic district or on an easement that passes through a property on which a historic resource is located, the City of South Pasadena or the city's contractor shall comply with the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings or the Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings (1995) by Weeks and Grimmer.

CUL-2 If construction activities occur within a designated historic district or on an easement that passes through a property on which a historic resource is located, the City of South Pasadena shall retain a preservation architect meeting the Secretary of the Interior's Professional Qualifications Standards in historic architecture (preservation architect) to review and comment upon project plans through the design development phase for conformance with the adopted mitigation measure or alternative.

CUL-3 If construction activities occur within a designated historic district or on an easement that passes through a property on which a historic resource is located, the City of South Pasadena shall retain a preservation architect meeting the Secretary of the Interior's Professional Qualifications Standards in historic architecture (preservation architect) to participate in preconstruction and construction monitoring activities to ensure continuing conformance with the Secretary of the Interior's Standards and/or avoidance of a material impairment of the historic resource.

With implementation of the above mitigation measures, impacts related to historic resources would be less than significant.

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5 of the CEQA Guidelines?

Less-than-Significant Impact with Mitigation Incorporated. In addition to the records search, a reconnaissance-level cultural resources survey was conducted within and adjacent to the proposed project site that would occur at least partially within open space and involve ground disturbance (i.e., open trenching). Segments of pipeline that are proposed for CIPP repairs were not surveyed as they pose little to no risk of ground disturbance. The reconnaissance survey was completed in March 2013 by Dudek archaeologist Brad Comeau. A total of five segments of sewer pipeline were included in the pedestrian survey due to the open trench nature of work in locations less likely to be previously disturbed. The survey consisted of visiting each of these five proposed pipeline segments and the associated manholes on foot to identify potentially undisturbed land that may contain cultural resources. Where access to project locations was limited due to private property fences, a visual inspection and photographs were completed in-lieu of a walking survey.

Three of the five locations are located on steep sloped ridges, in excess of 25 degrees. One is located at the top of a similarly steep sloped ridge within a graded road cut. The fifth location is located on flat ground; however, construction of the roadway in this area appears to have removed approximately 6 feet of soil from a small hill. No bedrock outcrops were observed in the survey area. In the project area between the five locations, it was observed that essentially all undeveloped terrain is on the slopes of ridges/canyons greater than 25 degrees and the canyon bottoms, which contain higher probabilities of archaeological sites, have all been developed into residential neighborhoods. It is therefore very unlikely that any intact cultural resources are present in the project area.

The records search results indicate that only seven historic resources have been recorded in the southwestern portion of the project area. All of these are historic period structures; prehistoric archaeological resources have not been reported in any portion of the project area. Field reconnaissance of the five trenching locations indicated that one of the locations has in fact been extensively graded, three are located on steeps slopes that have a very low probability of containing cultural resources, and the last location is on a graded cut at the top of a similarly steep sloped ridge. Given these results, the likelihood is low that trenching for the sewer line replacement will encounter cultural resources. In the highly unlikely event that unexpected, intact archaeological materials are unearthed during construction, a significant impact could occur. The following mitigation measure

would ensure that any impacts associated with the unexpected discovery of archaeological materials are reduced to a less-than-significant level.

Mitigation Measure

CUL-4 If unexpected, potentially significant archaeological materials are encountered during construction, trenching shall be temporarily redirected or suspended until a qualified archaeologist is retained to evaluate the potential significance of the find. Such materials could include dense and/or intact artifact-bearing deposits, features (such as fire pits, privies, foundations), or human remains and grave goods.

c) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less-than-Significant Impact. Construction of the project would result in ground-disturbing activities including grading, where trench depth would typically be 5 to 8 feet deep. As indicated above, it is unlikely that trenching for sewer line replacement will encounter any cultural resources due to the fact that most of the ground has been previously disturbed at this depth. However, in the case that unexpected, potentially significant materials are encountered during trenching, Mitigation Measure CUL-4 would be implemented and impacts would be less than significant.

d) Would the project disturb any human remains, including those interred outside of formal cemeteries?

Less-than-Significant Impact. As described above, it is unlikely that trenching for sewer line replacement will encounter any cultural resources. However, if human remains are unearthed during construction, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made the necessary findings as to the origin and disposition of the remains pursuant to California Public Resources Code Section 5097.98. Therefore, with compliance with State Health and Safety Code Section 7050.5, potential impacts to human remains would remain below a level of significance.

4.8 Geology and Soils

a) Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

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

Less-Than-Significant Impact. The project site is located within seismically active Southern California, an area where several faults and fault zones are considered active by the California Division of Mines and Geology. Alquist-Priolo earthquake fault zones have been established for the majority of these faults and fault zones. The purpose of the Alquist-Priolo earthquake fault zones is to prohibit the location of structures on the traces of active faults, thereby eliminating potential damage due to fault surface rupture. Within the City of South Pasadena, the Raymond Hill Fault is the only active fault that is designated as an Alquist-Priolo Special Study Zone. This fault is 12 miles in length and extends through the southern portion of South Pasadena (City of South Pasadena 1998). The proposed project does not include construction of any habitable structures. The proposed rehabilitated and replacement pipelines would be constructed per California Building Code (CBC) standards, which address seismic issues. Therefore, the project would have a less-than-significant impact on people and structures due to an earthquake.

ii) Strong seismic ground shaking?

Less-than-Significant Impact. As stated in response Geology and Soils, (a.i), there is potential for exposure to seismic ground shaking within seismically active Southern California. Severe ground shaking from a seismic event from nearby faults could result in damage to the proposed project. The proposed project would not include development of any structures for human occupancy. However, the pipelines would be designed per the standards of the CBC, which address seismic issues. Therefore, the required project design features would reduce any potential impacts to a less-than-significant level.

iii) Seismic-related ground failure, including liquefaction?

Less-than-Significant Impact. According to the City of South Pasadena General Plan, South Pasadena is at a low risk for liquefaction (City of South Pasadena 1998). Additionally, the proposed project includes rehabilitation and replacement

of underground pipelines and does not include habitable structures. Therefore, any failure caused in the system from seismic-related events, including ground failure or liquefaction, would not jeopardize the life and/or safety of humans. In addition, adherence to the CBC standards would reduce any potential impacts to a less-than-significant level.

iv) Landslides?

Less-than-Significant Impact. According to the City of South Pasadena General Plan, landslide areas exist in the Repetto Hills just inside the western City boundary and the Monterey Road Landslide area in the southwest portion of the City. However, as described above, the proposed project does not include any habitable structures and therefore would not jeopardize the life and/or safety of humans. Additionally, adherence to the CBC standards would reduce any potential impacts to a less-than-significant level.

b) Would the project result in substantial soil erosion or the loss of topsoil?

Less-than-Significant Impact. The proposed pipelines located in-street would be located within existing road rights-of-way and construction would occur within already paved areas that do not have the potential for soil erosion. Compliance with erosion control and sediment control measures required by City ordinances, regulations, and conditions set forth in the SWPPP as discussed in this section under Hydrology and Water Quality, would result in less-than-significant erosion impacts. Proposed off-street locations may require the removal of soil, which would be replaced after construction activities are completed. Additionally, because construction activities at each location are anticipated to occur over 1 to 3 days in duration, substantial soil erosion would not occur over such a short amount of time. Therefore, the impacts to soil erosion or loss of topsoil would be less than significant.

c) 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 off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

Less-than-Significant Impact. As discussed in responses Geology and Soils (a.iii) and (a.iv), there are two locations in the City with the potential for landslides. However, the proposed project would not construct any habitable structures and would adhere to the CBC, which would reduce any potential impacts to a less-than-significant level.

d) 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?

Less-than-Significant Impact. The proposed project does not include any habitable structures. However, the proposed project would adhere to the CBC, which would reduce potential impacts to a less-than-significant level.

e) 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 Impact. No septic tanks or alternative disposal systems are proposed as part of the project. Therefore, there would be no impact to alternative wastewater disposal systems.

4.9 Greenhouse Gas Emissions

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

Less-than-Significant Impact. Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. Thus, GHG impacts are recognized as exclusively cumulative impacts from a climate change perspective (CAPCOA 2008). This approach is consistent with that recommended by the California Natural Resource Agency (CNRA), which noted in its Public Notice for the proposed CEQA amendments that evidence indicates that in most cases, the impact of GHG emissions should be considered in the context of a cumulative impact, rather than a project-level impact (CNRA 2009a). Similarly, the *Final Statement of Reasons for Regulatory Action* for amendments to the CEQA Guidelines confirms that an EIR or other environmental document must analyze the incremental contribution of a project to GHG levels and determine whether those emissions are cumulatively considerable (CNRA 2009b).

Neither the State of California, the City, nor the SCAQMD has adopted emission-based thresholds for GHG emissions under CEQA. The Governor's Office of Planning and Research (OPR) issued a technical advisory titled *CEQA and Climate Change: Addressing Climate Change through CEQA Review*, which states that "public agencies are encouraged but not required to adopt thresholds of significance for environmental impacts. Even in the absence of clearly defined thresholds for GHG emissions, the law requires that such emissions from CEQA projects must be disclosed and mitigated to the

extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact" (OPR 2008). Furthermore, the advisory document indicates that "in the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice" (OPR 2008).

While the proposed project would result in emissions of GHGs during construction, there are currently no established thresholds for assessing whether the GHG emissions of a project in the SCAB, such as the proposed project, would be considered a cumulatively considerable contribution to global climate change. However, all reasonable efforts should be made to minimize a project's contribution to global climate change.

CAPCOA published a white paper in January 2008 evaluating and addressing GHG emissions from projects subject to CEQA. The CAPCOA CEQA and Climate Change white paper is intended as a resource and not a guidance document. The white paper studied non-zero quantitative thresholds, which were based on capture of 90% or more of likely future discretionary developments. The objective of the CAPCOA white paper was to set the emission threshold low enough to capture a substantial fraction of future residential and non-residential development that will be constructed to accommodate future statewide population and job growth, while setting the emission threshold high enough to exclude small development projects that would contribute a relatively small fraction of the cumulative statewide GHG emissions. A significance threshold of 900 metric tons carbon dioxide equivalent (MT CO_2E) per year, which was the lowest non-zero threshold evaluated, was based on an analysis that included data from four diverse cities—Los Angeles, Pleasanton, Dublin, and Livermore. This threshold would apply to industrial, residential, and commercial projects, but it is noted that any adoption of such a threshold would require further investigation. The CAPCOA document also looked at other possible thresholds, including zero thresholds, CARB GHG reporting thresholds, and efficiency-based thresholds, among others. For purposes of this assessment, a threshold of 900 MT CO_2E will be used to evaluate the significance of the proposed project's GHG emissions during construction. As stated previously in this section under Air Quality, the project would not result in an increase in long-term operational activities and potential maintenance or repair of pipelines would be temporary. Accordingly, operational emissions were not evaluated quantitatively in this assessment. Estimated project-generated GHG construction emissions and their impact on global climate are addressed below.

Construction GHG Emissions. Construction of the proposed wastewater pipeline improvements would result in GHG emissions, which are primarily associated with use of off-road construction equipment and vehicles, including the boiler and TRU, and on-road construction and worker vehicles. Except as noted below, CalEEMod was used to calculate the annual GHG emissions, expressed in units of carbon dioxide equivalent (CO_2E),[1] based on the construction scenario described in this section under Air Quality and Appendix A.

The 2013 construction scenario assumed that project construction would start in August and CIPP construction would occur for a total of 63 days, open trench pipeline installation would occur for 58 days, and replacement pipeline paving would occur for 20 days. It was assumed that in 2014, CIPP construction would occur for 150 days, open trench pipeline installation would occur for 82 days, and paving would occur for 28 days. In 2015 and 2016, the construction scenario assumed that CIPP construction would occur for 150 days each year, and it would occur for 87 days in 2017 with construction reaching completion in August 2017.

The annual CO_2 emissions from the boiler were estimated using the CO_2 emission factor from AP-42, Section 1.5, for propane-fired boilers (EPA 2008). The results were adjusted to estimate CH_4 and N_2O emissions in addition to CO_2. The CO_2 emissions from these devices were adjusted by a factor derived from the relative CO_2, CH_4, and N_2O emission factors for stationary propane fuel combustion as reported in the California Climate Action Registry's (CCAR's) General Reporting Protocol (CCAR 2009) for petroleum products, which were then adjusted for their global warming potentials.

The annual CO_2 emissions associated with operation of the TRU were calculated using OFFROAD2007 as described in previously in this section under Air Quality. The results were adjusted to estimate CH_4 and N_2O emissions in addition to CO_2. The CO_2 emissions from the TRU were adjusted by a factor derived from the relative CO_2, CH_4, and N_2O emission factors for diesel fuel as reported in the CCAR General Reporting Protocol (CCAR 2009) for stationary engines (CO_2) and non-road engines (CH_4 and N_2O), which were then adjusted for their global warming potentials.

The propane-fired boiler and the TRU used during CIPP construction were assumed to operate for 8 hours per day for 63 days in 2013; 150 days in 2014, 2015, and 2016; and 87 days in 2017. Detailed emissions calculations are provided in Appendix A.

[1] The CO_2 equivalent for a gas is derived by multiplying the mass of the gas by the associated global warming potential, such that $MTCO_2E$ = (metric tons of a GHG) x (global warming potential of the GHG). For example, the global warming potential for CH_4 is 21. This means that emissions of 1 metric ton of methane are equivalent to emissions of 21 metric tons of CO_2.

Table 5 presents construction emissions for 2013 through 2017. Estimates include emissions from both on-site (off-road equipment, boiler, and TRU) and off-site (on-road trucks and worker vehicles) sources during all construction phases.

Table 5
Estimated Annual Construction Greenhouse Gas Emissions

	MT CO_2	MT CH_4	MT N_2O	MT CO_2E
2013				
CIPP and Open Trench Construction	51	0.01	0.00	51
Boiler Operation	131	0.01	0.00	132
TRU Operation	6	0.00	0.00	6
Combined Total	*188*	*0.02*	*0.00*	*189*
2014				
CIPP and Open Trench Construction	99	0.01	0.00	99
Boiler Operation	312	0.02	0.01	314
TRU Operation	14	0.01	0.00	14
Combined Total	*425*	*0.03*	*0.01*	*428*
2015				
CIPP Construction	68	0.01	0.00	68
Boiler Operation	312	0.02	0.01	314
TRU Operation	14	0.00	0.00	14
Combined Total	*394*	*0.03*	*0.01*	*396*
2016				
CIPP Construction	68	0.01	0.00	68
Boiler Operation	312	0.02	0.01	314
TRU Operation	14	0.00	0.00	14
Combined Total	*394*	*0.03*	*0.01*	*396*
2017				
CIPP Construction	39	0.00	0.00	39
Boiler Operation	181	0.01	0.00	182
TRU Operation	8	0.00	0.00	8
Combined Total	*228*	*0.01*	*0.00*	*230*
Combined Total Construction Emissions	1,630	0.12	0.03	1,639

Source: See Appendix A for complete results.
MT CO_2 – metric tons carbon dioxide
MT CH_4 – metric tons methane
MT N_2O – metric tons nitrous oxide
MT CO_2E – metric tons carbon dioxide equivalent

As shown in Table 5, the estimated total GHG emissions during construction would be 189 MT CO_2E in 2013, 428 MT CO_2E in 2014, 396 MT CO_2E in 2015, 396 MT CO_2E in 2016, and 230 MT CO_2E in 2017, for a combined total of 1,639 MT CO_2E during construction of the proposed project. Construction-related GHG emissions would occur

periodically over 4 years and would not represent a long-term source of GHG emissions. Open trench construction, which is more intensive than CIPP construction, would only occur over a 1-year period.

As of the date that this analysis was prepared, the State of California, the SCAQMD, and the City have yet to adopt screening criteria and/or numeric significance thresholds for GHG emissions. Maximum project-generated annual GHG emissions of 428 MT CO_2E in 2014 are anticipated to be well below the annual threshold value of 900 MT CO_2E evaluated by CAPCOA. While the CAPCOA threshold has not been adopted by CARB, SCAQMD, or other air quality agencies, it is the lowest non-zero GHG significance threshold that has been evaluated in California. Therefore, as construction of the proposed project would not cause a cumulatively considerable contribution to GHG emissions, it would result in a cumulative impact in terms of climate change that is less than significant.

Operational GHG Emissions. As discussed in previously in this section under Air Quality, the proposed project would not result in an increase in long-term operational activities. Potential maintenance or repair of pipelines would be temporary and would not result in a substantial source of GHG operational emissions. Motor vehicle trips for inspection of the pipeline system currently occur and the proposed wastewater pipeline improvements would not necessitate additional trips. Accordingly, the proposed project would not generate operational GHG emissions that would have a significant impact on the environment.

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

Less-Than-Significant Impact. The Climate Change Scoping Plan, approved by CARB on December 12, 2008, provides an outline for actions to reduce California's GHG emissions. The Scoping Plan requires CARB and other state agencies to adopt regulations and other initiatives to reduce GHGs. Furthermore, neither the City, local jurisdictions, nor the SCAQMD have adopted any GHG reduction measures that would apply to the GHG emissions associated with the proposed project. At this time, no mandatory GHG regulations or finalized agency guidelines would apply to implementation of this project, and no conflict would occur. Therefore, this impact would be less than significant.

4.10 Hazards and Hazardous Materials

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

Less-Than-Significant Impact. The proposed rehabilitation and replacement of wastewater pipelines would not result in the routine transport, use, or disposal of hazardous materials. During the construction period, standard BMPs would be applied to ensure that all hazardous materials (i.e., construction equipment fuels) are stored properly and that no hazards occur during this phase of the project. During operation of the improved wastewater system, routine maintenance and inspection of the system would not involve the use of hazardous materials, with the exception of vehicle fuels in work trucks. Therefore, impacts would be less than significant.

b) Would the project 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?

Less-Than-Significant Impact. The project proposes the rehabilitation and repair of existing wastewater pipelines, and therefore, would not result in a reasonably foreseeable upset or accident condition involving the release of hazardous materials into the environment. During construction, BMPs would be applied to reduce potential concerns from accidental conditions. Impacts would be less than significant.

c) 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?

Less-Than-Significant Impact. The proposed rehabilitation and replacement of wastewater pipelines would occur throughout the City of South Pasadena and in some instances would occur within one-quarter mile of existing schools, including South Pasadena High School, South Pasadena Middle School, Monterey Hills Elementary School, Marengo Elementary School, St. James Parish Day School, and Holy Family School. The proposed project includes repair and replacement of wastewater pipelines and therefore would not emit or result in the handling of hazardous materials or substances. During construction, BMPs would be applied to reduce potential concerns from accidental conditions. Impacts would be less than significant.

d) Would the project be located on a site that 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?

Less-Than-Significant Impact with Mitigation Incorporated. Government Code Section 65962.5 requires the California Environmental Protection Agency (Cal-EPA) to compile and update the hazardous waste and substances sites list. The Cortese List was designed to comply with Government Code Section 65962.5. While the Cortese List is no longer maintained as a single list, the following databases provide information regarding sites identified as meeting the Cortese List requirements:

1. List of Hazardous Waste and Substances sites from Department of Toxic Substances Control (DTSC) Envirostor database (Health and Safety Codes 25220, 25242, 25356, and 116395)
2. List of Leaking Underground Storage Tank (LUST) Sites by County and Fiscal Year from Water Board GeoTracker database (Health and Safety Code 25295)
3. List of solid waste disposal sites identified by the SWRCB with waste constituents above hazardous waste levels outside the waste management unit (Water Code Section 13273 subdivision (e) and 14 CCR 18051)
4. List of "active" Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO) from the SWRCB (Water Code Sections 13301 and 13304)
5. List of hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code, identified by DTSC.

Dudek reviewed the facilities and/or sites identified in these five databases. Based on this review, a total of 15 sites within the City are included on the Cortese List.

1. Hazardous Waste and Substances Site list

On March 11, 2013, Dudek accessed the Hazardous Waste and Substances site list on the DTSC Envirostor database. Within Los Angeles County, 105 sites were listed (see Appendix D, Attachment A). However, no sites were listed in the City.

2. Leaking Underground Storage Tank Sites

On March 13, 2013, Dudek accessed the SWRCB GeoTracker database to obtain the list of LUST sites located within South Pasadena. Seventeen LUST releases were identified at 13 unique addresses within South Pasadena (see Appendix D,

Attachment B). GeoTracker listed 15 closed release cases and 2 open release cases associated with these 13 sites. Impacted soil and/or groundwater may remain at both closed and open release sites.

Dudek submitted a file review request to Los Angeles Regional Water Quality Board (LARWQCB) on March 13, 2013, to obtain information about the releases and site impacts. On April 4, 2013, Lucinda Flores, the LARWQCB file review representative, stated that records associated with 5 of the 13 sites are not maintained by LARWQCB. Ms. Flores stated that the lead agencies for five sites (701, 719, 825, 1414, and 1415 Mission Street) are the Los Angeles County Department of Public Works (LACDPW) Environmental Programs Division, UST Section, and the Los Angeles County Fire Department (LACFD) Health Hazardous Materials Division.

On April 4, 2013, Dudek submitted a file review request to LACDPW and LACFD. As of the date of this report, Dudek has not received a response from either LACDPW or LACFD. If it is determined that information from either LACDPW or LACFD materially affect the findings of the Appendix D memorandum, Dudek will prepare an addendum to this memorandum.

Information obtained from the SWRCB Geotracker database for these five sites indicates that each site reported a release to soil only. It is unlikely that the soil only releases extend beyond the individual property boundaries. However, impacted vapors from these releases may have migrated from the release sites and impacted the proposed project area. Limited information obtained from Geotracker for these five sites is as follows:

701 Mission – Halvorson's Cleaners

A release was reported at this dry cleaner. The release impacted soil only and the release case was closed by the lead regulatory agency in 1993.

719 Mission – Husco German Auto

A release was reported at this auto service shop. The release impacted soil only and the release case was closed by the lead regulatory agency in 1997.

825 Mission – City of South Pasadena

A release of gasoline to soil was discovered during removal of underground storage tanks (USTs) at the site. The release impacted soil only and the release case was closed by the lead regulatory agency in 1991.

1414 Mission – City of South Pasadena

A release of gasoline to soil was noted by the secondary containment monitor for the tank system at the site. The release impacted soil only. The release case is still open.

1415 Mission – Pacific Bell

A release to soil was discovered in 1995 during removal of USTs at the site. The release impacted soil only and the release case was closed by the lead regulatory agency in 1997.

Information from the remaining eight sites, for which the lead agency is the LARWQCB, was obtained from the LARWQCB file review (the most recent closure letters and reports on file at the LARWQCB were scanned by an on-site copy service (see Appendix D, Attachment B)) and from Geotracker. The files reviewed indicated the following:

460 Fair Oaks – Chevron

A release of gasoline to groundwater was reported for the Chevron station. The LUST release case received closure in August 1996. One off-site well and seven on-site wells were abandoned in September 1996. The well depths ranged between 50 and 65 feet below ground surface (bgs). The analytical data was not available for review.

718 Fair Oaks – Unocal

A release of gasoline to soil was discovered during UST closure in 1990. The site release case was granted closure in September 1996. The closure summary reported that groundwater in the area is approximately 500 feet bgs. Additionally, the closure report stated that a vapor extraction system was used to remediate the site soils and obtain closure. No information was available regarding the residual contamination at the site.

1200 Fair Oaks –Chevron

A release of gasoline to soil was discovered during UST closure. The LUST release case was closed in August 1996. The site received case closure even though residual contamination is present at the site. The depth to groundwater is estimated to be 380 feet bgs and was not investigated as part of the LUST release. According to the closure summary, two confirmation soil borings were advanced at the site. Total petroleum hydrocarbons (TPHs) were detected in the soil at a concentration of up to 1,200 milligrams per kilogram (mg/kg; depth not provided). Although petroleum-impacted soil remains at the site, low-risk closure was granted.

2140 Huntington – Unocal/Tosco

Two releases were reported for this former gas station (currently an auto service shop). Closure was issued for both releases at the site in July 1996 and June 2008. There is limited residual contamination at the site. The soil collected at 30.5 feet bgs from one confirmation boring contained concentrations of TPH and total xylenes at 1.3 mg/kg and 0.62 mg/kg. The soil samples collected from the remaining two confirmation borings did not contain detectable concentrations of VOCs or TPH.

736 Mission – Arco

Two releases were reported for this active gas station. The two gasoline releases to soil were closed in 1997 and 2010. The site was granted low-risk closure with residual petroleum-related contamination remaining in the soil. Petroleum-impacted soils are between 25 and 95 feet bgs (maximum TPH and benzene concentrations in site soils were 560 and 0.39 mg/kg). The depth to groundwater was estimated to be 110 feet bgs.

1141 Mission – Chevron

A release of gasoline to soil was reported for this gas station. The LUST release case received closure in September 1995. Although contamination remains at the site, the regulatory agency indicated that natural biodegradation would reduce the contamination that remains on site. Impacted soils at the site are between 10 and 30 feet bgs. TPH and benzene concentrations in the site soils were as high as 931 and 0.081 mg/kg, respectively. Groundwater was estimated to be 100 feet bgs.

1400 Mission – Shell Station

Petroleum hydrocarbons and chlorinated VOCs have been reported in groundwater samples at the former Shell Station (currently a Chevron). The Fourth Quarter 2012 Groundwater Monitoring Report reported that contaminants detected in groundwater are as listed in Table 6:

Table 6
Contaminants Detected In Groundwater

Sample Date	TPHg	TPHd	Benzene	MTBE	DIPE	TBA	EDC	cis-1,2-DCE	PCE	TCE	Other VOCs
	micrograms per liter (µg/L)										
11/29/2012	804	1750	2.6	155	114	1.1J	52.8	0.2J	5.0	0.52J	6.31J

Notes:
TPHd – Total Petroleum Hydrocarbons diesel range
EDC – 1,2-Dichloroethane
cis-1,2-DCE – cis-1,2-Dichloroethene
PCE – Tetrachloroethene
TCE – Trichloroethene
Other VOCs – sec-Bultylbenzene (2.7J µg/L), Chloroethane (0.41J µg/L), Carbon Tetrachloride (0.2J µg/L), Isopropylbenzene (3 µg/L)
J – Estimated Value

Groundwater flows to the west-northwest at approximately 0.01 ft/ft. Groundwater is between 115 and 120 feet bgs. The groundwater monitoring report requested risk based closure. The release case is still open.

1401 Mission – Mobil

A release of gasoline was reported for this gas station. The LUST release case was closed in February 2007. The depth to groundwater is approximately 135 feet bgs. Table 7 presents the most recent maximum contaminant concentrations detected in groundwater as well as the maximum concentrations detected in the confirmation boring.

Table 7
Recent Maximum Contaminant Concentrations

Media Type	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
		(ft bgs)	*µg/L*						
Groundwater	01/05/2007	112	103	<0.5	<0.5	<0.5.29J	<0.5	35.6	<10.

3. Solid Waste Disposal Sites

On March 11, 2013, Dudek downloaded the list of solid waste disposal sites identified by SWRCB with waste constituents above hazardous waste levels outside the waste management unit. Twenty-five sites were listed in California and one site listed in Los Angeles County (see Appendix D, Attachment C). None of the sites were listed in the City.

4. **Active Cease and Desist Orders and/or Cleanup and Abatement Orders**

   On March 13, 2013, Dudek downloaded the SWRCB list of active CDOs and CAOs for California. Ten sites were listed within the County of Los Angeles (see Appendix D, Attachment D). However, none of the listed sites were located within the City.

5. **Hazardous Waste Facilities Subject to Corrective Action**

   Dudek accessed the Cal-EPA Cortese List to obtain information on hazardous waste facilities identified in the Health and Safety Code 25187.5. Facilities identified under Health and Safety Code 25187 are those that DTSC determined required immediate corrective action to "abate imminent or substantial endangerment." Two sites were listed in California. None of the sites were listed within the City.

As detailed above, 13 LUST release sites were identified within the City of South Pasadena. Eleven of the thirteen release cases were closed by the regulatory agency. Three releases impacted groundwater. Groundwater at the majority of the sites is reportedly greater than 100 feet bgs; however, one site reported a groundwater depth of approximately 60 feet bgs.

Although soil at these sites may contain residual contamination, it is unlikely that the soil-only releases extend beyond the individual property boundaries. However, impacted vapors from these releases may have migrated from the release sites and impacted the proposed project area. Likewise, although impacted groundwater is present in at least two of these sites, the groundwater is deep (greater than 100 feet), such that impacted vapors from the groundwater at these sites is unlikely to impact the proposed project.

Dudek assumes that the proposed project includes work in the roads and easements outside of the individual site boundaries. However, if work is to be conducted at these LUST sites, further evaluation and possible soil sampling should be conducted prior to the start of such work.

Due to the potential for encountering impacted vapors in the proposed project area, the following mitigation measure is required:

Mitigation Measure

HAZ-1 A Hazardous Materials Contingency Plan shall be prepared and followed during the excavation of areas in the vicinity of the LUST release sites. The plan should specify measures to be taken to monitor worker health and safety (use of a photoionization detector (PID) to identify potential impacted vapors in the project area). The plan should also specify measures to be taken to mitigate potential impacted vapors (e.g., use of respirators if action levels are exceeded).

With incorporation of this mitigation measure, the proposed project would not create a significant hazard to the public or the environment.

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

No Impact. The proposed project is not located within an airport land use plan or within 2 miles of a public airport or public use airport. Therefore, no impact would result.

f) 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?

No Impact. The project area is not located within the vicinity of a private airstrip. Therefore, the project would not result in a safety hazard for people residing or working in the project area and there would be no impact.

g) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less-than-Significant Impact. The City has an adopted Disaster Response Plan, which is administered by the City Manager's Office. Once constructed, the rehabilitated wastewater conveyance system would be entirely underground and would not impair or interfere with the applicable emergency response plans. In addition, during project construction, a traffic control plan would be implemented to ensure adequate circulation is maintained on area roadways and emergency response plans are not impacted. Therefore, the proposed project would have less-than-significant impacts to adopted emergency response or emergency evacuation plans.

h) 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?

No Impact. The project site is located entirely within the City of South Pasadena and would not interfere with wildlands. Therefore, the project would not expose people or structures to a significant risk involving wildland fires, and there would be no impact in this regard.

4.11 Hydrology and Water Quality

a) Would the project violate any water quality standards or waste discharge requirements?

Less-than-Significant Impact. Though the proposed project is not anticipated to generate significant amounts of pollutants, there is a risk that any of the contaminants of concern listed below could be released during construction at the site in stormwater and urban runoff:

- Sediments
- Nutrients
- Heavy metals
- Organic compounds
- Trash and debris
- Oxygen-demanding substances (potential)
- Oil and grease
- Bacteria and viruses
- Pesticides.

The proposed project is required to comply with the NPDES for stormwater discharges and general construction activities, regular cleaning or sweeping of construction areas and impervious areas, and implementation of stormwater BMPs. In compliance with the NPDES, the City will prepare an SWPPP that specifies BMPs to be implemented during project construction to prevent pollutants from contacting stormwater and control erosion and sedimentation. The SWPPP will be prepared and submitted to the RWQCB for review and approval prior to the start of construction.

Compliance with erosion control and sediment control measures required by City ordinances, regulations, and conditions set forth in the SWPPP would result in less-than-significant water quality impacts.

b) 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 (i.e., 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)?

No Impact. The project site does not require the construction of wells, and the use of groundwater would not be required. By nature of the proposed project, which includes replacement and rehabilitation of existing wastewater pipelines throughout the City, construction and operation of the proposed project would have no effect on groundwater or recharge of groundwater. In addition, the project area would continue to drain to existing storm drains, and therefore would not deplete the local groundwater table. As such, no impact would occur.

c) 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?

No Impact. The proposed project includes replacement and rehabilitation of existing wastewater pipelines throughout the City. Construction and operation of the proposed project would have no effect on the existing drainage pattern of the project area. The project area would continue to drain to existing storm drains, and therefore would not result in changes to erosion or siltation patterns. As such, no impact would occur.

d) 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, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site?

No Impact. Construction and operation of the proposed project would occur entirely underground and would not affect any streams or rivers. Additionally, the proposed project would not introduce additional impervious area and therefore would not result in an increase in surface runoff or flooding risk. As such, no impact would occur.

e) 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 of polluted runoff?

Less-than-Significant Impact. The proposed project is required to comply with the NPDES for stormwater discharges and general construction activities, and implement

stormwater BMPs. In compliance with the NPDES, the City will prepare an SWPPP that specifies BMPs to be implemented during project construction to prevent pollutants from contacting stormwater and control erosion and sedimentation. The SWPPP will be prepared and submitted to the RWQCB for review and approval prior to the start of construction. Compliance with erosion control and sediment control measures required by City ordinances, regulations, and conditions set forth in the SWPPP would result in less-than-significant water quality impacts.

f) Would the project otherwise substantially degrade water quality?

Less-than-Significant Impact. The proposed project is required to comply with the NPDES for stormwater discharges and general construction activities, and implement stormwater BMPs. In compliance with the NPDES, the City will prepare an SWPPP that specifies BMPs to be implemented during project construction to prevent pollutants from contacting stormwater and control erosion and sedimentation. The SWPPP will be prepared and submitted to the RWQCB for review and approval prior to the start of construction. Compliance with erosion control and sediment control measures required by City ordinances, regulations, and conditions set forth in the SWPPP, would result in less-than-significant water quality impacts.

g) 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?

No Impact. The proposed project includes rehabilitation and replacement of underground pipelines and does not include habitable structures. Therefore, no impact would occur relative to flood hazards.

h) Would the project place within a 100-year flood hazard area structures that would impede or redirect flood flows?

No Impact. The proposed project includes rehabilitation and replacement of underground pipelines and does not include habitable or aboveground structures. Therefore, no impact would occur relative to flooding.

i) 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?

No Impact. The proposed project includes rehabilitation and replacement of underground pipelines and does not include habitable structures. Additionally, the proposed project has no components related to levees or dams. Therefore, no impact would occur relative to flood hazards.

j) Would the project be at risk for inundation by seiche, tsunami, or mudflow?

No Impact. The project site is located approximately 20 miles from the Pacific Ocean. Thus, tsunamis and seismic sea waves do not pose a hazard at the site. Additionally, the project site is not located downslope of any large bodies of water that could adversely affect the site in an event of earthquake-induced failures or seiches or wave oscillations in an enclosed or semi-enclosed body of water. The City has many hills and hillside areas; however, the proposed project would not exacerbate mudflow potential because the nature of the project is rehabilitation of underground pipes and would not change hillsides. Therefore, implementation of the project would not result in any seiche, tsunami, or mudflow impacts related to this issue.

4.12 Land Use and Planning

a) Would the project physically divide an established community?

No Impact. The proposed project would be located entirely underground; therefore, the project would not physically divide an established community and there would be no impact.

b) Would the project conflict with any applicable land use 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, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

No Impact. The proposed project would be located entirely underground; therefore, the project would not conflict with any land use plan, policy, or regulation and there would be no impact.

c) Would the project conflict with any applicable habitat conservation plan or natural community conservation plan?

Less-than-Significant Impact. There are no adopted Habitat Conservation Plans, Natural Community Conservation Plans, or other habitat conservation plans governing the project area. As discussed in this section in Biological Resources responses (a) through (e), impacts related to biological resources would be reduced to less-than-significant levels through implementation of Mitigation Measures BIO-1 through BIO-5.

4.13 Mineral Resources

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

Less-than-Significant Impact. According to the California Department of Conservation (DOC 2001), the northern portion of the City contains MRZs. Portions of the project area are located within MRZ-2 areas, which indicates that significant mineral deposits are present, or it is judged that a high likelihood exists for their presence. It should be noted that none of the proposed project locations are currently being used for mineral resource extraction and currently contain a variety of land uses unrelated to mineral extraction. Given these factors, while portions of the proposed project would be located on MRZ-2 land, impacts would be less than significant.

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

Less-than-Significant Impact. As discussed above, the northern portion of the City contains MRZ-2 areas. None of the proposed project locations are currently being used for mineral resource extraction; the proposed project would rehabilitate existing pipelines and would not require additional excavation or installation of pipelines in previously undisturbed areas that may contain mineral resources. Therefore, while portions of the proposed project would be located on MRZ-2 land, impacts would be less than significant.

4.14 Noise

a) 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?

Less-than-Significant Impact with Mitigation Incorporated. Ambient noise in the project vicinity is primarily generated from traffic along various roads. Land uses in the vicinity of the project site generally consist of residential and commercial uses, including single- and multifamily development, parks, schools, community facilities, and commercial uses.

The City does not limit construction noise levels at residential locations during the daytime hours, as specified in the City's Municipal Code, Chapter 19 (Section 19A.13, Construction of Buildings and Projects). However, the City's Noise Ordinance limits construction to the hours of 8:00 a.m. and 7:00 p.m., Monday through Saturday, and between the hours of 10:00 a.m. and 7:00 p.m. on Sunday, as required by the City's Municipal Code (City of South Pasadena 2007).

Existing noise levels were measured at three locations representative of noise-sensitive land uses (residences, in each case) within the City that have the potential to be effected by the project. Noise measurements were conducted along Fremont Avenue, north of Monterey Road; Oneonta Drive, west of Bonita Drive, and at Hanscom Drive east of Hill Drive. All three measurements were conducted during typical, mid-day conditions. Average, ambient noise levels were found to range from 61 to 41 dBA L_{eq}, as shown in Table 8. Traffic noise was the primary noise source, with distant aircraft over-flights, distant construction noise, distant barking dogs, and birds being secondary sources.

Table 8
Existing Measured Noise Levels at Representative Noise-Sensitive Land Uses

Noise Measurement Location	Date	Start Time	Duration (minutes)	Measured Noise Level (dBA)		
				L_{eq}	L_{max}	L_{min}
ST-1; 1114 Fremont Avenue, near front façade of houses	3/12/13	11:28 a.m.	20	60.7	69.2	44.8
ST-2; 872 Oneonta Drive, side yard area	3/12/13	12:26 p.m.	20	44.7	58.3	39.0
ST-3; 1734 Hanscom Drive, side yard area	3/12/13	1:37 p.m.	20	41.2	58.1	30.1

Note: dBA = A-weighted decibel.

Construction Noise

Noise from construction activities would temporarily increase noise levels at nearby noise-sensitive land uses. Two types of construction techniques would be employed, as described in more detail in Section 2.3. The work (whether for the CIPP or the open trench methods) would occur on public rights-of-way, in which case noise-sensitive land uses (primarily consisting of residences) are located approximately 50 feet or more away. All but 11 of the locations requiring open trench methods are in existing roads. The remaining 11 replacement locations are located within City easements through developed areas; in some cases, construction work could take place within approximately 20 feet of residences.

The construction is planned to take place in four phases over a period of 4 years. However, work at any one location would be relatively brief. For pipeline segments at which CIPP techniques are appropriate, each pipeline segment would generally be rehabilitated within a single 8-hour workday. For open trench segments, two to three 8-hour workdays would be required. For either of the methods, construction activities would take place only during daytime hours (typically, between the hours of 8 a.m. and 6 p.m.)

A noise analysis was performed using a model developed by the Federal Highway Administration (FHWA) called the Roadway Construction Noise Model (RCNM) (FHWA 2008). Input variables for RCNM consist of the receiver/land use types, the equipment type (i.e., pump, pressure washer, truck, etc.), the number of equipment pieces, the duty cycle for each piece of equipment (i.e., percentage of hours the equipment typically works per day), the distance from the sensitive noise receptor, and the ambient day and night-time noise levels without the equipment operating. Refer to Appendix E for the inputs used in the RCNM model, which are based on noise sources identified in the City, as well as results.

The various construction equipment types and quantities (both for CIPP and open trench) were used for this analysis. The RCNM has default duty cycle values for the various pieces of equipment, which were derived from an extensive study of typical construction activity patterns. Those default duty cycle values were utilized for this analysis. Construction noise was estimated for both the 20-foot case and the more typical 50-foot case, as shown in Table 9.

Table 9
Project Construction Noise Levels at Nearest Receivers (dBA)

Construction Method	Noise Level (dBA Leq) at Receiver	
	20 feet	*50 feet*
CIPP	91 dBA	83 dBA
Open trench	86 dBA	78 dBA

Source: FHWA 2008.

As shown in Table 9, the proposed project is expected to result in noise levels as high as 91 dBA L_{eq} during CIPP construction, assuming that the equipment is located 20 feet from the nearest noise-sensitive receiver. Noise levels at a more typical distance of 50 feet would be 83 dBA L_{eq}. Open trench construction methods are predicted to create noise levels of 86 dBA L_{eq} and 78 dBA L_{eq} at 20 feet and 50 feet, respectively.

The City does not limit construction noise levels at residential location during the daytime hours, as specified in the City's Municipal Code, Chapter 19 (Section 19A.13, Construction of Buildings and Projects). Construction activities would be temporary and quite brief in duration at any one location, would occur in compliance with the City's Noise Ordinance, and would occur between the hours of 8:00 a.m. and 7:00 p.m., Monday through Saturday, and between the hours of 10:00 a.m. and 7:00 p.m. on Sunday, as required by the City's Municipal Code. For these reasons, impacts associated with construction noise levels would be less than significant.

Although less than significant, noise levels of these magnitudes could cause interference with conversations or other normal daytime activities. The mitigation measures identified below (Mitigation Measures NOI-1 through NOI-7) are required to minimize construction noise to the extent practicable and should also be incorporated into the project contract specifications.

Mitigation Measures

NOI-1 Construction operations shall not occur between 7 p.m. and 8 a.m. Monday through Saturday and 7 p.m. and 10 a.m. on Sundays. The hours of construction, including noisy maintenance activities and all spoils and material transport, shall be restricted to the periods and days permitted by the local noise or other applicable ordinance.

NOI-2 The on-site construction supervisor shall have the responsibility and authority to receive and resolve noise complaints. A clear appeal process to the owner shall be established prior to construction commencement that will allow for resolution of noise problems that cannot be immediately solved by the site supervisor.

NOI-3 Electrically powered equipment shall be used instead of pneumatic or internal combustion powered equipment, where feasible.

NOI-4 Material stockpiles and mobile equipment staging, parking, and maintenance areas shall be located as far as practicable from noise-sensitive receptors.

NOI-5 The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only.

NOI-6 No project-related public address or music system shall be audible at any adjacent receptor.

NOI-7 All noise-producing construction equipment and vehicles using internal combustion engines shall be equipped with mufflers, air-inlet silencers where appropriate, and any other shrouds, shields, or other noise-reducing features in good operating condition that meet or exceed original factory specification. Mobile or fixed "package" equipment (e.g., arc-welders, air compressors) shall be equipped with shrouds and noise control features that are readily available for that type of equipment.

Operational Noise

Once in place, the rehabilitated sewer lines would not result in noise that would be audible to noise-sensitive receivers. There would be no long-term operational noise impacts from the project.

b) Would the project result in exposure of persons to or generation of excessive ground-borne vibration or ground-borne noise levels?

Less than Significant. Vibration is sound radiated through the ground. The ground motion caused by vibration is measured as particle velocity in inches per second and is referenced as vibration decibels (VdB). Typical outdoor sources of perceptible ground-borne vibration are construction equipment and traffic on rough roads. Operation of the

proposed project would not produce ground-borne vibration because no powered machinery or other vibration-generating equipment would be utilized during operation. During construction, powered equipment would be utilized, although only for relatively brief periods of time at any one location, as detailed in the discussion above. The nearest sensitive receptors would typically be located approximately 50 feet or more away from the project work, but in some instances could be within approximately 20 feet. Based on the estimates summarized in Table 10, vibration levels would be 49 to 77 VdB or less at the nearest residences, during open trench-type construction. Vibration from CIPP-type construction would be negligible because there would be little to no use of heavy equipment. These levels would be below the significance threshold of 80 VdB used by the Federal Transit Administration for residences, for infrequent events, and would only occur for short periods during construction. Therefore, impacts would be less than significant.

Table 10
Vibration Source Levels for Construction Equipment – Open Trench Method

Equipment	Approximate VdB	
	20 feet	*50 feet*
Loaded Truck	n/a	77
Small Bulldozer	61	49

Source: Federal Transit Administration 2006.

c) Would the project result in a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

No Impact. Refer to response Noise (a) above. Once constructed, the proposed project would not result in any permanent increase in noise levels. Therefore, there would be no impact.

d) Would the project result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?

Less-than-Significant Impact with Mitigation Incorporated. Refer to the previous Noise (a). Construction of the proposed project would not result in any significant temporary or periodic noise impacts after mitigation is incorporated; therefore, this impact would be considered less than significant.

e) Would the project be 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 levels?

No Impact. The proposed project area is not located within an airport land use plan or within 2 miles of a public airport or public use airport. Therefore, no impact would result.

f) Would the project be within the vicinity of a private airstrip and would the project expose people residing or working in the project area to excessive noise levels?

No Impact. The project area is not located within the vicinity of a private airstrip. Therefore, there would be no impact.

4.15 Population and Housing

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

Less-than-Significant Impact. The proposed project includes rehabilitation of approximately 148,500 linear feet of pipe and replacement of approximately 14,000 linear feet of pipe. All of the proposed project impacts are anticipated to be construction-related impacts rather than operational impacts because once the work is completed, the system would operate as it currently does with few, if any, impacts. No direct growth constraint would be removed, nor would a direct stimulus to growth be added. Furthermore, the City is largely built out and the proposed project is addressing a deficiency in the existing wastewater system, not increasing its capacity. Therefore, the impact on local population trends would be less than significant.

b) Would the project displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?

No Impact. The project would be located within existing street rights-of-way and easements and would not require the demolition or alteration of existing housing. Therefore, housing would not be displaced and there would be no impact.

c) Would the project displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?

No Impact. See responses Population and Housing (a) and (b). Since the proposed project would not require the demolition or alteration of existing housing, it would not displace people or require replacement housing. No impact would occur.

4.16 Public Services

a) 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 any of the following public services:

Fire protection?

Less-than-Significant Impact. The project would not include the addition of housing, schools, or other community facilities that might require fire protection. The project would also not indirectly induce the addition of housing, schools, or other community facilities (see response Population and Housing (a)). During the construction phases of the proposed project, the associated construction workers and construction-related activities would not result in an increase in need for emergency fire protection services. Furthermore, a construction area traffic control plan or detour plan would be prepared, as required by Mitigation Measure TRA-1, which would allow fire protection services to maintain routes and response times. However, due to the limited number of construction workers and the duration of the construction schedule, impacts to fire protection services would be less than significant.

Police protection?

Less-than-Significant Impact. The project would not include the addition of housing, schools, or other community facilities that might require police protection. The project would also not indirectly induce additional housing, schools, or other community facilities (see response Population and Housing (a)). Construction of the distribution system would not change local police protection response times or affect demand for police protection services in the project area. Furthermore, a construction area traffic control plan or detour plan would be prepared, as required by Mitigation Measure TRA-

1, which would allow police protection services to maintain routes and response times. Therefore, there would be a less-than-significant impact to police protection.

Schools?

No Impact. The project would not involve a housing component that would result in population growth and increased demands on existing schools within the area. Therefore, no impact to schools would occur.

Parks?

No Impact. The project would not involve a housing component or increase employment that would result in population growth. Therefore, additional demands on existing public parks would not occur as a result of project implementation and there would be no impact.

Other public facilities?

No Impact. Refer to the above responses. Since the project would not involve any housing or increase in employment opportunities within the area, there would be no impact on other public facilities.

4.17 Recreation

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

No Impact. The proposed project would not involve a housing component or substantially increase employment opportunities within the area; therefore, the project would not increase the use of existing neighborhood and regional parks or other recreational facilities and there would be no impact.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?

No Impact. The project would not affect existing recreational resources or require the need for new or expanded recreational facilities. Therefore, there would be no impact associated with recreational facilities.

4.18 Transportation and Traffic

a) Would the project conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

Less-Than-Significant Impact with Mitigation Incorporated. There are three primary categories of transportation and traffic impacts that have been evaluated for the proposed project. The first category would be the impacts associated with construction traffic on the roadways that provide access to the project area. The construction activities would generate vehicular traffic that would be traveling to and from the project area on the public streets and highways, including trucks delivering equipment and materials to the various construction sites, trucks transporting waste material away from the construction sites, and construction workers' vehicles commuting to and from the construction sites.

The second category of traffic impacts would be the physical effects of the pipeline construction and repair activities that would occur within the right-of-way of the affected public roadways (i.e., lane closures, detours, driveway blockages, loss of parking, and disruptions to traffic, transit, bicycle, and pedestrian movements in each of the construction areas).

The third category of traffic impacts would be the impacts associated with the operation of the proposed project after construction is complete. The traffic impacts associated with each of these construction and operation categories have been evaluated for the affected streets and highways.

Existing Conditions

The study area for the proposed project is essentially the entire street and roadway network in the City. Regional access to the project area is provided by the Pasadena Freeway (State Route 110), which runs from downtown Los Angeles to Pasadena and provides access to South Pasadena via several interchanges in the western and northern areas of the city.

The streets and roadways that would be most-directly affected by the project are listed in Table 11, which shows the locations where the pipeline improvements would involve an open trench. The table shows the location number, the street name, the

affected segment or location of each street, the number of lanes, and the roadway classification. The classifications are as specified in the Circulation and Accessibility Element of the City of South Pasadena General Plan (amended February 2001).

Table 11 indicates that there are 48 locations where the pipeline would be installed with an open trench, although eight of the locations are not within the right-of-way of a public street. These eight segments are designated as "not in a street." The remaining 40 locations, which are within the rights-of-way of public streets, would be directly impacted by the proposed pipeline construction activities. In addition, there are numerous locations throughout the City where the pipeline repairs would be implemented with the CIPP method. This type of construction is accomplished from within the existing manholes and would not involve trenching in the roadways.

In the "No of lanes" column of Table 11, the numbers shown represent the number of travel lanes on each roadway segment. For the locations where the street name shows a direction of travel (e.g., NB for northbound), the number represents only the lanes in the designated direction of travel for these divided highways. A "P" in the lane column indicates that the street has sufficient room for a parking lane in addition to the travel lane. Some of the streets without the "P" designation might have legal parking along the side of the street; however, parked vehicles at these locations encroach on the travel lanes and the parking area would not provide enough space to serve as a temporary bypass lane if the travel lane were to be blocked by pipeline construction activities.

Table 11
Open Trench Locations and Affected Roadways

Location Number	Segment ID	Street Name	Segment/ Location	No of Lanes	Roadway Classification
1	159B-159C	Oak Hill Place	n/o Avenue 60/Hill Drive	1½	Local
2	200B-200C	Illinois Drive	s/o Hanscom Drive	1½	Local
3	199C-199D	Not in a Street	e/o Hanscom Drive	0	N/A
4	175F-185G	Not in a Street	s/o Via del Rey	0	N/A
5	107D-107C	Monterey Road	w/o Oak Hill Avenue	2 P	Minor Arterial
6	107B-107A	Monterey Road	Brunswick Avenue - Kolle Avenue	2 P	Minor Arterial
7	105B-131A	Monterey Road	e/o Indiana Avenue	4 P	Minor Arterial
8	131B-161C	Indiana Avenue	s/o Monterey Road	2	Collector
9	131C-131B	Not in a Street	e/o Indiana Avenue	0	N/A
10	161C-131A	Gates Place	e/o Indiana Avenue	1½	Local
11	131H-131B	Indiana Avenue	s/o Gates Place	2	Collector
12	131J-131C	Not in a Street	e/o Indiana Avenue	0	N/A

Table 11
Open Trench Locations and Affected Roadways

Location Number	Segment ID	Street Name	Segment/ Location	No of Lanes	Roadway Classification
13	131D-131C	Camino Cerrado	n/o Via del Rey	2 P	Local
14	131F-131E	Orange Grove Place	e/o Orange Grove Avenue	2 P	Local
15	210B-131D	Indiana Avenue	n/o El Centro Street	2 P	Local
16	210A-210B	Cawston Street	Hawthorne Street - Palm Court	2 P	Local
17	165A-165B	Paloma Drive	w/o Grand Avenue	2	Local
18	97F-97C	Grand Avenue	s/o Paloma Drive	2 P	Collector
19	103B-82E	Grand Avenue	Between Sterling Place north - Sterling Place south	2 P	Collector
20	61D-104D	Charter Oak Street	e/o Grand Avenue	2	Local
21	138A-111D	Prospect Avenue	s/o Buena Vista Street	2	Local
22	111D-111E	Prospect Circle	n/o Buena Vista Street	2 P	Local
23	111F-110A	Not in a Street	e/o Prospect Circle	0	N/A
24	113E-110B	Huntington Drive NB	n/o Alhambra Road	3 P	Major Arterial
25	100A-100B	Meridian Avenue	Bonita Drive - Maple Street	2 P	Collector
26	139G-100A	Wolford Lane	w/o Meridian Avenue	2	Local
27	139F-139G	Bonita Drive	n/o Oneonta Drive	1½	Local
28	30K-30L	Oneonta Drive	w/o Bonita Drive	1	Local
29	75E-75F	Not in a Street	w/o Bonita Drive	0	N/A
30	75K-75D	Meridian Avenue	Beech St-Gillette Crescent	2 P	Collector
31	129J-129H	Meridian Avenue	s/o Braewood Court	2 P	Collector
32	136D-136E	Rollin Street	w/o Meridian Avenue	2 P	Local
33	129E-129F	Not in a Street	In softball field of South Pasadena High School	0	N/A
34	75B-75C	Foothill Street	e/o Meridian	2	Local
35	74G-74B	Not in a Street	e/o Fair Oaks Avenue	0	N/A
36	74J-74G	Magnolia Street	w/o Mound Avenue	2 P	Local
37	91A-91B	Mound Avenue	n/o Mission Street	2 P	Local
38	89D-89A	Mission Street	w/o Marengo Avenue	2 P	Minor Arterial
39	66B-66C	Fremont Avenue	n/o Monterey Road	2 P	Minor Arterial
40	146F-146G	Fair Oaks Ave SB	s/o Spruce Street	3 P	Major Arterial
41	146N-146F	Stratford Avenue	n/o Maple Street	2	Local
42	70A-57G	Huntington Drive WB	Camden Ave - Court Avenue	3 P	Major Arterial
43	57G-57H	Wayne Avenue	s/o Oak Street	2 P	Local
44	57H-76E	Oak Meadows Lane	n/o Oak Street	2 P	Local
45	54E-34A	Montrose Avenue	s/o Mission Street	2 P	Local

Table 11
Open Trench Locations and Affected Roadways

Location Number	Segment ID	Street Name	Segment/ Location	No of Lanes	Roadway Classification
46	60C-86C	Milan Avenue	Laurel Street - Oak Street	2 P	Local
47	46C-29A	Milan Avenue	Huntington Drive - Spruce St	2 P	Local
48	134A-134B	Huntington Drive WB	w/o Milan Avenue	3 P	Major Arterial

Notes: e/o = east of, w/o = west of, n/o = north of, s/o = south of, N/A = not applicable,
NB = northbound, SB = southbound, EB = eastbound, WB = westbound

In addition to the project area's roadway network, the area is served by public transit lines that operate along several of the major roadways in the City. The Los Angeles County Metropolitan Transportation Authority (Metro) operates bus routes along Fair Oaks Avenue (Routes 260 and 762), Mission Street (Route 176), Huntington Drive (Routes 79, 260, 485, and 762), and on Fremont Avenue. In addition, the Metro Gold Line light-rail transit line passes through South Pasadena and has a station on Mission Street at Meridian Avenue.

With regard to non-motorized travel, sidewalks are in place along some of the streets in South Pasadena to accommodate pedestrian travel. Most of the local residential streets, however, do not have sidewalks and pedestrians share the roadway with vehicular traffic. Bicyclists generally share the roadway with vehicular traffic.

Significance Criteria

The project's impacts would be considered significant if one or more of the following conditions were to occur.

- The project would result in an increase in traffic volumes that would cause a roadway to operate at unacceptable levels of service.
- An arterial roadway would be closed to through traffic as a result of construction activities.
- Construction activities would restrict access to or from adjacent land uses with no suitable alternative access.

- Construction activities would restrict the movement of emergency vehicles (police, fire, and ambulance/paramedic units) and there would be no reasonable alternative access routes available.
- Construction activities would disrupt bus service and there would be no suitable alternative routes or bus stops.
- Construction activities would impede pedestrian movements in the construction area and there would be no suitable alternative pedestrian access routes.
- Construction activities would result in safety problems for vehicular traffic, pedestrians, bicyclists, or transit operations.

Impacts

As stated previously, there are three categories of impacts associated with the proposed project. The first category would be the impacts associated with construction traffic on the roadways that provide access to the project area. The second category would be the physical effects of the pipeline construction and repair activities within the right-of-way of the affected public roadways. The third category would be the impacts associated with the operation of the proposed project after construction is complete.

With regard to the first category of impacts, the construction activities would result in a minor increase in traffic volumes on the streets that provide access to each construction site. It is anticipated that each construction site would have a crew of four to six workers and about four trucks. This level of activity would generate up to 10 vehicle trips during the morning peak hour as workers and equipment arrive at the work zone, 10 vehicle trips during the afternoon peak hour as workers leave the work zone, and an estimated 10 additional trips throughout the day for deliveries, inspectors, etc. This would result in approximately 30 vehicle trips per day. As these peak hour and daily traffic volumes are minor compared to the existing traffic volumes on the project area street network and the roadway capacities, the construction-generated traffic would not require a detailed traffic impact analysis and the impacts would be less than significant.

The second category of construction impacts would be the physical impacts associated with pipeline construction in the public streets. The construction activities would result in temporary lane blockages within the rights-of-way of the street segments shown in Table 11 where trenching would be used to replace the existing pipeline links.

As the construction zone would be approximately 10 to 12 feet in width, it would block the equivalent of one lane while construction occurred at each trenching location. Depending on the lateral placement of the existing pipeline within the roadway, this blockage would displace one travel lane, parts of two travel lanes, the parking area, or the parking area and part of the adjacent travel lane. Any particular location would be directly impacted by the construction activities for a duration of 1 to 3 days under typical conditions.

The street locations shown in Table 11 to have one lane or one-and-a-half lanes would be completely blocked by the construction activities and detouring would be necessary. For the street locations that have two lanes without a standard parking lane, it may be possible to provide a single lane for vehicles to pass by the construction zone depending on the lateral position of the trench and the width of the street. A flagger would be required to direct the two directions of traffic flow. For the locations that have two lanes with a standard parking lane or more than two lanes, it would be possible for vehicles to continue using the street with the use of a typical construction area traffic control plan. These locations would require temporary restrictions for on-street parking in the vicinity of the work zone to provide sufficient space for the vehicles to pass by the construction site.

In addition to the lane and road closure scenarios described above, the trenching operations would have the following impacts:

- Restricted access to properties adjacent to the work zone if driveways are blocked.
- Access prohibited for properties on a dead-end street if the construction zone completely blocks the street.
- Disrupted access for emergency access providers; i.e., fire, police, and ambulance/paramedic vehicles.
- Disrupted bus transit service if bus stops are temporarily blocked.
- Impeded pedestrian and/or bicycle movements.
- Safety problems for vehicular traffic, pedestrians, bicyclists, or transit operations.

The impacts identified above for the locations where the construction would involve trenching in the public streets could potentially result in significant impacts. The impacts could be mitigated by implementing Mitigation Measures TRA-1 through TRA-3.

The CIPP method of construction would result in temporary lane closures at the locations where the construction crews would access each manhole. The resulting traffic impacts would be similar to the impacts described above for the trenching operations, although the impacts would be less disruptive. The same mitigation measures would apply to these locations.

The third category of traffic impact, which would be the operational impacts after the project is constructed, would be negligible because the completed pipeline would rarely result in the generation of vehicular traffic. The only operational traffic associated with the completed project would be the traffic associated with inspection, maintenance, and repair of the pipeline facility. These maintenance activities are already occurring in the existing condition. These traffic volumes would be the same as the existing levels or possibly lower because there would most likely be a reduction in repair activities after the project is complete. Therefore, there would be no traffic impacts associated with the operation of the facilities.

In summary, the project could potentially result in a significant impact as the construction activities could affect the performance of the circulation system, including vehicular access, transit operations, and pedestrian safety. With the incorporation of the following mitigation measures, the impacts would be less than significant.

Mitigation Measures

The following mitigation measures would mitigate the significant impacts associated with construction activities in the right-of-way of public roadways.

TRA-1 A construction area traffic control plan or detour plan shall be prepared for each location where construction activities would encroach into the right-of-way of a public roadway. The plans would include, but not be limited to, such features as warning signs, lights, flashing arrow boards, barricades, cones, lane closures, flaggers, pedestrian detours, parking restrictions, and restricted hours during which lane closures would not be allowed (e.g., 7:00 to 9:00 a.m. and 4:00 to 6:00 p.m.) or as determined by the City.

TRA-2 The contractor and/or City shall provide advance written notification to affected property owners and tenants to inform them about the scheduling and duration of potential obstructions and to arrange for alternative access if necessary.

TRA-3 The contractor and/or City shall consult with Metro prior to construction if any transit routes will be blocked and/or if any bus stops would be inaccessible due to construction activities.

b) Would the project conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?

Less-Than-Significant Impact. The Los Angeles County Congestion Management Program (CMP) indicates that a project may have a significant impact and that a traffic study would be required if the project would contribute 50 or more peak-hour vehicle trips to a designated CMP intersection and/or if the project would add 150 or more peak-hour trips in either direction to a designated CMP freeway monitoring location. As detailed in response (a), construction of the project would generate an estimated 10 trips during the peak hours and 30 trips per day and operation of the project would generate no additional traffic. As these traffic volumes are well below the CMP thresholds, a detailed CMP analysis is not required and the project would not have a significant impact at a CMP intersection or on the freeway network. The project would not, therefore, conflict with an applicable congestion management program or exceed a level of service standard established by the congestion management agency.

c) 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?

No Impact. The proposed project would have no impact on air traffic patterns or safety.

d) 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)?

Less-Than-Significant Impact with Mitigation Incorporated. Construction of the proposed project within the public right-of-way would potentially result in increased hazards to motorists, bicyclists, and pedestrians because the construction activities would occur within the travel lanes of various streets, as detailed in response (a). These conflicts would result in safety risks; however, the impacts would be less than significant because of the implementation of Mitigation Measure TRA-1, which requires a construction area traffic control plan.

e) Would the project result in inadequate emergency access?

Less-Than-Significant Impact with Mitigation Incorporated. The project would potentially result in a significant impact relative to emergency access because the construction activities within the public right-of-way could increase the response times for emergency vehicles (police, fire, and ambulance/paramedic units) and block or disrupt access to adjacent properties. The impacts would be significant if the construction activities would restrict access to or from adjacent land uses with no suitable alternative access. These impacts would be less than significant because of the implementation of Mitigation Measure TRA-1, as presented in response (a), as well as Mitigation Measure TRA-4 presented below. With the implementation of these mitigation measures, the project's impacts on emergency access would be less than significant.

Mitigation Measure

TRA-4 The contractor and/or City shall coordinate in advance with emergency service providers to avoid restricting movements of emergency vehicles. Police departments, fire departments, and ambulance/paramedic services shall be notified of the proposed locations, scheduling, and duration of any construction activities and advised of any access restrictions that could affect their response times. At locations where streets will be blocked, provision shall be ready at all times to accommodate emergency vehicles, such as immediately stopping work for emergency vehicle passage, short detours, and alternate routes.

f) Would the project conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

Less-Than-Significant Impact with Mitigation Incorporated. The project could potentially result in disrupted public transit service, including schedule delays and blocked bus stops, as the construction activities would occur at locations that are adjacent to Metro bus routes. The impacts would be significant if the construction activities would disrupt bus service and there would be no suitable alternative routes or bus stops. In addition, the project could potentially block or disrupt the movement of pedestrians and bicycles adjacent to a construction zone. These impacts would be less than significant because of the implementation of Mitigation Measures TRA-1 and TRA-3, as presented in response (a). With the implementation of these mitigation measures, the project's impacts on alternative transportation would be less than significant.

4.19 Utilities and Service Systems

a) Would the project exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

Less-than-Significant Impact. The project would rehabilitate the existing wastewater conveyance system and would not result in the generation of additional wastewater treatment demands. Therefore, the project would not exceed wastewater treatment requirements and the impact would be less than significant.

b) 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 could cause significant environmental effects?

Less-than-Significant Impact. The project would not generate population growth and would rehabilitate the existing wastewater conveyance system. Therefore, the project would be beneficial and the impact on wastewater facilities would be less than significant.

c) Would the project require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

Less-than-Significant Impact. The project would rehabilitate the existing underground wastewater conveyance system and would not require or result in the construction of new stormwater drainage facilities. The proposed project is required to comply with the NPDES for stormwater discharges and general construction activities, and implement stormwater BMPs. In compliance with the NPDES, the City will prepare an SWPPP that specifies BMPs to be implemented during project construction to prevent pollutants from contacting stormwater and control erosion and sedimentation. This would not necessitate the construction of new stormwater facilities or expansion of existing facilities. Therefore, the proposed project have a less-than-significant impact on stormwater drainage.

d) Would the project have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

Less-than-Significant Impact. The project would rehabilitate the existing wastewater conveyance system and would not increase the demand for water supplies. Therefore, the project would be beneficial to water supplies and the impact would be less than significant.

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

Less-than-Significant Impact. See responses Utilities and Service Systems (a) and (b). Since the proposed project would not result in increased demand for wastewater treatment, the impact would be less than significant.

f) Would the project be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?

Less-than-Significant Impact. The proposed project, once complete, would not require solid waste material disposal. Waste generated during construction would be disposed off-site in accordance with federal, state, and local statutes and regulations related to solid waste. Therefore, the impact would be less than significant.

g) Would the project comply with federal, state, and local statutes and regulations related to solid waste?

Less-than-Significant Impact. See response Utilities and Service Systems (f). Construction of the proposed project would require minimal solid waste material disposal. Therefore, the impact would be less than significant.

4.20 Mandatory Findings of Significance

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

Less-than-Significant Impact with Mitigation Incorporated. As discussed previously, potential impacts to biological resources, including endangered species or habitat, would be reduced to a less-than-significant level through implementation of Mitigation Measures BIO-1 through BIO-5. Biological issues, as well as other environmental issues, are further discussed in Section 4.6, Biological Resources. Additionally, as discussed previously, potential impacts to cultural resources would be reduced to a less-than-significant level through implementation of Mitigation Measures CUL-1 through CUL-4. Therefore, impacts would be less than significant with mitigation incorporated.

b) Does the project have the potential to achieve short-term environmental goals to the disadvantage of long-term environmental goals?

Less-than-Significant Impact. The proposed project would achieve both short-term and long-term environmental goals by rehabilitating the conveyances of wastewater within the City's service area. The improved conveyance of wastewater would reduce potential for service disruptions or maintenance issues that have resulted in water pollution, thereby reducing the potential for environmental impacts associated with conveying wastewater. Since the proposed project would achieve both short-term and long-term environmental goals, impacts would be less than significant.

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

Less-than-Significant Impact. As revealed in the analysis presented in Section 4.0 of this MND, the proposed project would not result in significant impacts to aesthetics, agricultural and forestry resources, air quality, geology and soils, GHG emissions, hazards and hazardous materials, hydrology and water quality, land use and planning, mineral resources, population and housing, public services, recreation, and utilities and services systems. Mitigation measures required for biological resources, cultural resources, noise, and transportation and traffic would reduce impacts to below a level of significance.

The project would incrementally contribute to cumulative impacts for projects occurring within the City and the region. With mitigation, however, no residually significant impacts would result with implementation of the project. In the absence of residually significant impacts, the incremental accumulation of effects would be less than significant.

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

Less-than-Significant Impact with Mitigation Incorporated. Based on the analysis contained throughout this MND, all impacts related to the proposed project can be mitigated to a level below significance. Therefore, substantial adverse impacts on human beings would not occur as a result of the proposed project.

5.0 MITIGATION MONITORING AND REPORTING PROGRAM

The following table is new since publication of the public review draft of the IS/MND. ~~To be included in Final MND.~~

Mitigation Measure	Timing of Mitigation				Monitoring Reporting Agency/Responsibility	Timing for Verification		Date of Completion	Date of Verification
	Planning	*Pre-Const.*	*During Const.*	*Post Const.*		*Monitor*	*Report*		
Biological Resources									
BIO-1 The City shall conduct a pre-construction biological survey for special-status species determined to have potential to occur in suitable habitat within the project area no more than 72 hours prior to the start of construction activities.		X			Public Works Department	Prior to construction	Prior to construction		
BIO-2 The City shall conduct biological surveys at the segments indicated in Table 3 of the MND for potentially occurring special-status plant species during spring and fall to ensure avoidance during construction. Surveys should be conducted in suitable habitat during the appropriate blooming period for each plant species, which are as follows: western spleenwort (February–June), Braunton's milk-vetch (January–August), round-leaved filaree (March–May), Plummer's mariposa lily (May–July), intermediate mariposa lily (May–July), Lewis' evening-primrose (March–June), many-stemmed dudleya (April–July), mesa horkelia (February–July), fragrant pitcher sage (March–October), Robinson's pepper-grass (January–July), ocellated Humboldt lily (March–August), Davidson's bush-mallow (June–January), Hubby's phacelia (April–June), white rabbit-tobacco (August–		X			Public Works Department	Prior to construction	Prior to construction		

Mitigation Measure	Timing of Mitigation				Monitoring Reporting Agency/Responsibility	Timing for Verification		Date of Completion	Date of Verification
	Planning	*Pre-Const.*	*During Const.*	*Post Const.*		*Monitor*	*Report*		
November), Parish's gooseberry (February–April), and Engelmann oak (March–June). Survey needs are presented in Table 3 of the MND.									
BIO-3 The City shall coordinate with CDFW if southern California black walnut trees present within the project area are determined to require trimming or removal to facilitate the proposed project.		X			Public Works Department	Prior to construction	Prior to construction		
BIO-4 The City's construction contractor shall obtain the appropriate permits from the City of South Pasadena for tree trimming or removal regulated under the City's tree regulations.		X			Public Works Department	Prior to construction	Prior to construction		
BIO-5 The City's construction contractor shall limit motor vehicle access to maintained roads and designated routes where possible.			X		Public Works Department	During construction	After construction		
Cultural Resources									
CUL-1 If construction activities occur within a designated historic district or on an easement that passes through a property on which a historic resource is located, the City of South Pasadena or the city's contractor shall comply with the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings or the Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings (1995) by Weeks and Grimmer.			X		Planning and Building Department	During construction	After construction		

Mitigation Measure	Timing of Mitigation				Monitoring Reporting Agency/Responsibility	Timing for Verification		Date of Completion	Date of Verification
	Planning	*Pre-Const.*	*During Const.*	*Post Const.*		*Monitor*	*Report*		
CUL-2 If construction activities occur within a designated historic district or on an easement that passes through a property on which a historic resource is located, the City of South Pasadena shall retain a preservation architect meeting the Secretary of the Interior's Professional Qualifications Standards in historic architecture (preservation architect) to review and comment upon project plans through the design development phase for conformance with the adopted mitigation measure or alternative.		X	X		Planning and Building Department	Prior to and during construction	After construction		
CUL-3 If construction activities occur within a designated historic district or on an easement that passes through a property on which a historic resource is located, the City of South Pasadena shall retain a preservation architect meeting the Secretary of the Interior's Professional Qualifications Standards in historic architecture (preservation architect) to participate in preconstruction and construction monitoring activities to ensure continuing conformance with the Secretary of the Interior's Standards and/or avoidance of a material impairment of the historic resource.		X	X		Planning and Building Department	Prior to and during construction	After construction		
CUL-4 If unexpected, potentially significant archaeological materials are encountered during construction, trenching shall be temporarily redirected or suspended until a qualified archaeologist is retained to			X		Planning and Building Department	During construction	After construction		

Mitigation Measure	Timing of Mitigation				Monitoring Reporting Agency/Responsibility	Timing for Verification		Date of Completion	Date of Verification
	Planning	*Pre-Const.*	*During Const.*	*Post Const.*		*Monitor*	*Report*		
evaluate the potential significance of the find. Such materials could include dense and/or intact artifact-bearing deposits, features (such as fire pits, privies, foundations), or human remains and grave goods.									
Hazards and Hazardous Materials									
HAZ-1 A Hazardous Materials Contingency Plan shall be prepared and followed during the excavation of areas in the vicinity of the LUST release sites. The plan should specify measures to be taken to monitor worker health and safety (use of a photoionization detector (PID) to identify potential impacted vapors in the project area). The plan should also specify measures to be taken to mitigate potential impacted vapors (e.g., use of respirators if action levels are exceeded).			X		Public Works Department	During construction	After construction		
Noise									
NOI-1 Construction operations shall not occur between 7 p.m. and 8 a.m. Monday through Saturday and 7 p.m. and 10 a.m. on Sundays. The hours of construction, including noisy maintenance activities and all spoils and material transport, shall be restricted to the periods and days permitted by the local noise or other applicable ordinance.			X		Public Works Department	During construction	After construction		
NOI-2 The on-site construction supervisor shall have the responsibility and authority to receive and resolve noise complaints. A clear appeal process to the			X		Public Works Department	During construction	After construction		

Mitigation Measure	Timing of Mitigation				Monitoring Reporting Agency/Responsibility	Timing for Verification		Date of Completion	Date of Verification
	Planning	*Pre-Const.*	*During Const.*	*Post Const.*		*Monitor*	*Report*		
owner shall be established prior to construction commencement that will allow for resolution of noise problems that cannot be immediately solved by the site supervisor.									
NOI-3 Electrically powered equipment shall be used instead of pneumatic or internal combustion powered equipment, where feasible.			X		Public Works Department	During construction	After construction		
NOI-4 Material stockpiles and mobile equipment staging, parking, and maintenance areas shall be located as far as practicable from noise-sensitive receptors.			X		Public Works Department	During construction	After construction		
NOI-5 The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only.			X		Public Works Department	During construction	After construction		
NOI-6 No project-related public address or music system shall be audible at any adjacent receptor.			X		Public Works Department	During construction	After construction		
NOI-7 All noise-producing construction equipment and vehicles using internal combustion engines shall be equipped with mufflers, air-inlet silencers where appropriate, and any other shrouds, shields, or other noise-reducing features in good operating condition that meet or exceed original factory specification. Mobile or fixed "package" equipment (e.g., arc-welders, air compressors) shall be equipped with shrouds and noise control features that are readily available for that type of equipment.			X		Public Works Department	During construction	After construction		

Mitigation Measure	Timing of Mitigation				Monitoring Reporting Agency/Responsibility	Timing for Verification		Date of Completion	Date of Verification
	Planning	*Pre-Const.*	*During Const.*	*Post Const.*		*Monitor*	*Report*		
Transportation and Traffic									
TRA-1 A construction area traffic control plan or detour plan shall be prepared for each location where construction activities would encroach into the right-of-way of a public roadway. The plans would include, but not be limited to, such features as warning signs, lights, flashing arrow boards, barricades, cones, lane closures, flaggers, pedestrian detours, parking restrictions, and restricted hours during which lane closures would not be allowed (e.g., 7:00 to 9:00 a.m. and 4:00 to 6:00 p.m.) or as determined by the City.		X			Transportation Department	Prior to construction	Prior to construction		
TRA-2 The contractor and/or City shall provide advance written notification to affected property owners and tenants to inform them about the scheduling and duration of potential obstructions and to arrange for alternative access if necessary.		X			Transportation Department	Prior to construction	Prior to construction		
TRA-3 The contractor and/or City shall consult with Metro prior to construction if any transit routes will be blocked and/or if any bus stops would be inaccessible due to construction activities.		X			Transportation Department	Prior to construction	Prior to construction		
TRA-4 The contractor and/or City shall coordinate in advance with emergency service providers to avoid restricting movements of emergency vehicles. Police departments, fire departments, and ambulance/paramedic services shall be notified of the proposed locations,		X			Transportation Department	Prior to construction	Prior to construction		

Mitigation Measure	Timing of Mitigation				Monitoring Reporting Agency/Responsibility	Timing for Verification		Date of Completion	Date of Verification
	Planning	*Pre-Const.*	*During Const.*	*Post Const.*		*Monitor*	*Report*		
scheduling, and duration of any construction activities and advised of any access restrictions that could affect their response times. At locations where streets will be blocked, provision shall be ready at all times to accommodate emergency vehicles, such as immediately stopping work for emergency vehicle passage, short detours, and alternate routes.									

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6.0 RESPONSES TO COMMENTS

Comment Letter 1

STATE OF CALIFORNIA
Governor's Office of Planning and Research
State Clearinghouse and Planning Unit

Edmund G. Brown Jr.
Governor

Ken Alex
Director

CITY OF SOUTH PASADENA
RECEIVED
MAY 20 2013
PUBLIC WORKS DEPT.

May 17, 2013

Shin Furukawa
City of South Pasadena
1414 Mission Street
South Pasadena, CA 91030

Subject: Sewer Rehabilitation and Replacement Project
SCH#: 2013041057

Dear Shin Furukawa:

The State Clearinghouse submitted the above named Mitigated Negative Declaration to selected state agencies for review. On the enclosed Document Details Report please note that the Clearinghouse has listed the state agencies that reviewed your document. The review period closed on May 16, 2013, and the comments from the responding agency (ies) is (are) enclosed. If this comment package is not in order, please notify the State Clearinghouse immediately. Please refer to the project's ten-digit State Clearinghouse number in future correspondence so that we may respond promptly.

Please note that Section 21104(c) of the California Public Resources Code states that:

> "A responsible or other public agency shall only make substantive comments regarding those activities involved in a project which are within an area of expertise of the agency or which are required to be carried out or approved by the agency. Those comments shall be supported by specific documentation."

1-1

These comments are forwarded for use in preparing your final environmental document. Should you need more information or clarification of the enclosed comments, we recommend that you contact the commenting agency directly.

This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act. Please contact the State Clearinghouse at (916) 445-0613 if you have any questions regarding the environmental review process.

Sincerely,

Scott Morgan
Director, State Clearinghouse

Enclosures
cc: Resources Agency

1400 TENTH STREET P.O. BOX 3044 SACRAMENTO, CALIFORNIA 95812-3044
TEL (916) 445-0613 FAX (916) 323-3018 www.opr.ca.gov

Comment Letter 1
Attachment A

Document Details Report
State Clearinghouse Data Base

SCH#	**2013041057**
Project Title	Sewer Rehabilitation and Replacement Project
Lead Agency	South Pasadena, City of
Type	**MND** Mitigated Negative Declaration
Description	The City of South Pasadena is proposing a Sewer Rehabilitation and Replacement Project (proposed project) to rehabilitate and replace the City's aging wastewater collection infrastructure. The proposed project includes rehabilitation of approximately 148,500 linear feet of pipe with a trenchless cured-in-place-pipe (CIPP) technology and replacement of approximately 14,000 linear feet of pipe by open trench construction. The location of the work would include in-street and off-street construction. All but 11 off-street sewer segments, totaling about 1,706 feet, would be rehabilitated using CIPP technology. All of the proposed project impacts are anticipated to be construction-related impacts rather than operational impacts because once the work is completed, the system would operate as it currently does with few, if any, impacts.

Lead Agency Contact

Name	Shin Furukawa		
Agency	City of South Pasadena		
Phone	626 403 7240	***Fax***	
email			
Address	1414 Mission Street		
City	South Pasadena	***State*** CA	***Zip*** 91030

Project Location

County	Los Angeles		
City	South Pasadena		
Region			
Lat / Long	34° 6' 58" N / 118° 9' 1" W		
Cross Streets			
Parcel No.	Citywide		
Township	***Range***	***Section***	***Base***

Proximity to:

Highways	Hwy 110
Airports	
Railways	
Waterways	
Schools	
Land Use	In-street and off-street locations throughout the City (no specific land use/zoning/General Plan designation)

Project Issues	Aesthetic/Visual; Agricultural Land; Air Quality; Archaeologic-Historic; Biological Resources; Drainage/Absorption; Flood Plain/Flooding; Forest Land/Fire Hazard; Geologic/Seismic; Minerals; Noise; Population/Housing Balance; Public Services; Recreation/Parks; Schools/Universities; Septic System; Soil Erosion/Compaction/Grading; Solid Waste; Toxic/Hazardous; Traffic/Circulation; Vegetation; Water Quality; Water Supply; Wetland/Riparian; Growth Inducing; Landuse; Cumulative Effects
Reviewing Agencies	Resources Agency; Department of Fish and Wildlife, Region 5; Office of Historic Preservation; Department of Parks and Recreation; Department of Water Resources; California Highway Patrol; Caltrans, District 7; CA Department of Public Health; State Water Resources Control Board, Divison of Financial Assistance; Regional Water Quality Control Board, Region 4; Native American Heritage Commission

Document Details Report
State Clearinghouse Data Base

Date Received 04/17/2013 ***Start of Review*** 04/17/2013 ***End of Review*** 05/16/2013

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Response to Comment Letter 1

State of California Governor's Office of Planning and Research,
State Clearinghouse and Planning Unit
Scott Morgan, State Clearinghouse Director
May 17, 2013

1-1 This comment is a response from the State Clearinghouse stating that the agency has forwarded agency comment letters on the Draft MND. The letter also acknowledges that the City of South Pasadena has complied with State Clearinghouse review requirements pursuant to the California Environmental Quality Act.

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Comment Letter 2

COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY

1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
Telephone: (562) 699-7411, FAX: (562) 699-5422
www.lacsd.org

GRACE ROBINSON CHAN
Chief Engineer and General Manager

May 16, 2013

Ref. File No: 2568719

CITY OF SOUTH PASADENA
RECEIVED
MAY 17 2013
PUBLIC WORKS DEPT.

Mr. Shin Furukawa, PE
Deputy Public Works Director
City of South Pasadena
1414 Mission Street
South Pasadena, CA 91030

Dear Mr. Furukawa:

Sewer Rehabilitation and Replacement Project

The County Sanitation Districts of Los Angeles County (Districts) received a Notice of Intent to Adopt a Negative Declaration for the subject project on April 17, 2013. The proposed development is located within the jurisdictional boundaries of District No. 16. We offer the following comments regarding sewerage service:

- The proposed project may impact existing and/or proposed Districts' trunk sewers over which it will be constructed. Existing and proposed Districts' trunk sewers are located directly under and/or cross directly beneath the proposed project alignment. The Districts cannot issue a detailed response to or permit construction of the proposed project until project plans and specifications that incorporate Districts' sewer lines are submitted. In order to prepare these plans, you will need to submit a map of the proposed project alignment, when available, to the attention of Mr. Jon Ganz of the Districts' Sewer Design Section at the address shown above. The Districts will then provide you with the plans for all Districts' facilities that will be impacted by the proposed project. Then, when revised plans that incorporate our sewers have been prepared, please submit copies of the same for our review and comment. 2-1

If you have any questions, please contact the undersigned at (562) 908-4288, extension 2717.

Very truly yours,

Grace Robinson Chan

Adriana Raza
Customer Service Specialist
Facilities Planning Department

AR: ar

c: J. Ganz

Doc #: 2598072.D16

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Response to Comment Letter 2

County Sanitation Districts of Los Angeles County
Grace Robinson Chan, Chief Engineer and General Manager
May 16, 2013

2-1 During each phase of project design, the City will provide the County Sanitation Districts of Los Angeles County (Districts) with a map showing the locations of the City sewer segments to be repaired by open trench construction and request record drawings for any adjacent Districts' facilities. Copies of project design plans and specifications showing the Districts' facilities in the vicinity of the work will be submitted to the Districts at the 60% and 100% level of completion, or as requested by the Districts.

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Comment Letter 3

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board

MAY 08 2013

CITY OF SOUTH PASADENA
RECEIVED
MAY 13 2013
PUBLIC WORKS DEPT.

Shin Furukawa
City of South Pasadena
1414 Mission Street
South Pasadena, California 91030

Dear Shin Furukawa:

INITIAL STUDY/MITIGATED NEGATIVE DECLARATION (IS/MND) FOR CITY OF SOUTH PASADENA (CITY); SEWER REHABILITATION AND REPLACEMENT PROJECT (PROJECT); LOS ANGELES COUNTY; STATE CLEARINGHOUSE NO. 2013041057

We understand that the City is pursuing Clean Water State Revolving Fund (CWSRF) financing for this Project (CWSRF No. C-06-7863-110). As a funding agency and a state agency with jurisdiction by law to preserve, enhance, and restore the quality of California's water resources, the State Water Resources Control Board (State Water Board) is providing the following information on the IS/MND to be prepared for the Project.

3-1

Please provide us with the following documents applicable to the proposed Project following the City's California Environmental Quality Act (CEQA) process: (1) one copy of the draft and final IS/MND, (2) the resolution adopting the IS/MND and making CEQA findings, (3) all comments received during the review period and the City's response to those comments, (4) the adopted Mitigation Monitoring and Reporting Program (MMRP), and (5) the Notice of Determination filed with the Los Angeles County Clerk and the Governor's Office of Planning and Research, State Clearinghouse. In addition, we would appreciate notices of any hearings or meetings held regarding environmental review of any projects to be funded by the State Water Board.

The State Water Board, Division of Financial Assistance, is responsible for administering the CWSRF Program. The primary purpose for the CWSRF Program is to implement the Clean Water Act and various state laws by providing financial assistance for wastewater treatment facilities necessary to prevent water pollution, recycle water, correct nonpoint source and storm drainage pollution problems, provide for estuary enhancement, and thereby protect and promote health, safety and welfare of the inhabitants of the state. The CWSRF Program provides low-interest funding equal to one-half of the most recent State General Obligation Bond Rates with a 20-year term. Applications are accepted and processed continuously. Please refer to the State Water Board's CWSRF website at:
www.waterboards.ca.gov/water_issues/programs/grants_loans/srf/index.shtml.

3-2

The CWSRF Program is partially funded by the United States Environmental Protection Agency and requires additional "CEQA-Plus" environmental documentation and review. Four enclosures are included that further explain the CWSRF Program environmental review process and the additional federal requirements.

FELICIA MARCUS, CHAIR | THOMAS HOWARD, EXECUTIVE OFFICER

1001 I Street, Sacramento, CA 95814 | Mailing Address: P.O. Box 100, Sacramento, Ca 95812-0100 | www.waterboards.ca.gov

RECYCLED PAPER

2

The State Water Board is required to consult directly with agencies responsible for implementing federal environmental laws and regulations. Any environmental issues raised by federal agencies or their representatives will need to be resolved prior to State Water Board approval of a CWSRF financing commitment for the proposed Project. For further information on the CWSRF Program, please contact Mr. Ahmad Kashkoli, at (916) 341-5855.

It is important to note that prior to a CWSRF financing commitment, projects are subject to provisions of the Federal Endangered Species Act (ESA), and must obtain Section 7 clearance from the United States Department of the Interior, Fish and Wildlife Service (USFWS), and/or the United States Department of Commerce National Oceanic and Atmospheric Administration, National Marine Fisheries Service (NMFS) for any potential effects to special-status species.

Please be advised that the State Water Board will consult with USFWS, and/or NMFS regarding all federal special-status species that the Project has the potential to impact if the Project is to be funded under the CWSRF Program. The City will need to identify whether the Project will involve any direct effects from construction activities, or indirect effects such as growth inducement, that may affect federally listed threatened, endangered, or candidate species that are known, or have a potential to occur on-site, in the surrounding areas, or in the service area, and to identify applicable conservation measures to reduce such effects.

In addition, CWSRF projects must comply with federal laws pertaining to cultural resources, specifically Section 106 of the National Historic Preservation Act (Section 106). The State Water Board has responsibility for ensuring compliance with Section 106, and must consult directly with the California State Historic Preservation Officer (SHPO). SHPO consultation is initiated when sufficient information is provided by the CWSRF applicant. If the City decides to pursue CWSRF financing, please retain a consultant that meets the Secretary of the Interior's Professional Qualifications Standards (www.cr.nps.gov/local-law/arch_stnds_9.htm) to prepare a Section 106 compliance report. 3-2 Cont.

Note that the City will need to identify the Area of Potential Effects (APE), including construction and staging areas, and the depth of any excavation. The APE is three-dimensional and includes all areas that may be affected by the Project. The APE includes the surface area and extends below ground to the depth of any Project excavations. The records search request should be made for an area larger than the APE. The appropriate area varies for different projects but should be drawn large enough to provide information on what types of sites may exist in the vicinity.

Other federal requirements pertinent to the Project under the CWSRF Program include the following:

A. Compliance with the Federal Clean Air Act: (a) Provide air quality studies that may have been done for the Project; and (b) if the Project is in a nonattainment area or attainment area subject to a maintenance plan; (i) provide a summary of the estimated emissions (in tons per year) that are expected from both the construction and operation of the Project for each federal criteria pollutant in a nonattainment or maintenance area, and indicate if the nonattainment designation is moderate, serious, or severe (if applicable); (ii) if emissions are above the federal de minimis levels, but the Project is sized to meet only the needs of current population projections that are used in the approved State Implementation Plan for air quality, quantitatively indicate how the proposed capacity increase was calculated using population projections.

3

B. Compliance with the Migratory Bird Treaty Act: List any birds protected under this act that may be impacted by the Project and identify conservation measures to minimize impacts.

C. Compliance with the Flood Plain Management Act: Identify whether or not the Project is in a Flood Management Zone and include a copy of the Federal Emergency Management Agency flood zone maps for the area.

D. Compliance with the Wild and Scenic Rivers Act: Identify whether or not any Wild and Scenic Rivers would be potentially impacted by the Project and include conservation measures to minimize such impacts.

3-2 Cont.

Following are specific comments on the City's draft IS/MND:

1. Cultural Resources, pg. 51: Please include a textual description and a visual description of the Project's APE on a map. 3-3

2. Hazards and Hazardous Materials, pg. 62: Please include a detailed description of the Best Management Practices (BMPs) to be implemented to the Project's use and maintenance of hazardous materials. 3-4

3. Hydrology and Water Quality, pg. 72: Please include a detailed description of the BMPs and the Storm Water Protection Plan (SWPP) to be implemented during Project construction and operation. 3-5

4. Traffic and Transportation, pg. 89: Please include a detailed description of the construction area traffic control plan or detour plan, whichever will be implemented. 3-6

5. Mitigation Monitoring and Reporting Program (MMRP) to be included in final MND. 3-7

Thank you for the opportunity to review the City's draft IS/MND. If you have any questions or concerns, please feel free to contact Ahmad Kashkoli at (916) 341-5855, or by email at AKashkoli@waterboards.ca.gov, or me at (916) 341-5799, or by email at DWerner@waterboards.ca.gov.

Sincerely,

Ahmad Kashkoli

Ahmad Kashkoli
Senior Environmental Scientist

cc: State Clearinghouse
(Re: SCH# 2013041057)
P.O. Box 3044
Sacramento, CA 95812-3044

Comment Letter 3
Attachment A

Cultural Resources

Compliance with Federal Section 106 of the National Historic Preservation Act

Information Needed from the Applicant:

- Current records search with maps showing all sites and surveys drawn in relation to the project area.
- Native American consultation.
- Instructions as to how to get started are found in the CEQA Guidelines, since these two items are basic to any cultural resources review.

Migratory Bird Treaty Act

Information Needed From the Applicant:

- Identification of whether or not the project is within jurisdiction of the Migratory Bird Treaty Act.

Wild and Scenic Rivers Act

Information Needed from the Applicant:

- Identification of whether or not the project will impact any Wild and Scenic Rivers.

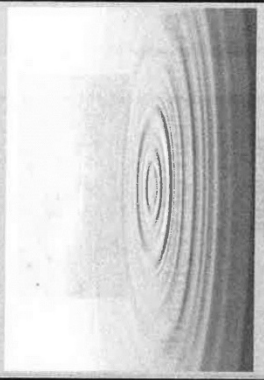
Other Requirements

Information Needed from the Applicant:

- Eight (8) copies of the final CEQA document.
- A date-stamped copy of the Notice of Determination or the Notice of Exemption filed with the Governor's Office of Planning and Research and a receipt of the filling fees paid to the California Department of Fish and Game for Negative Declarations (ND) or Environmental Impact Reports (EIR).
- A copy of the Resolution from the lead agency, approving or certifying the CEQA document and their project. *Note: The CEQA Guidelines uses "approve" or "adopt" for ND and "certify" for EIR.*

Quick Reference Guide to the California Environmental Quality Act (CEQA)-Plus Requirements for State Revolving Fund Loans

Guide to Federal Requirements



State Water Resources Control Board
Division of Financial Assistance
January 2008

Comment Letter 3
Attachment A Contd.

Endangered Species

Compliance with Section 7 of the Endangered Species Act

Information Needed from the Applicant:

- List of special status species (both animal and plant) likely or possibly to occur at project site. *Note: If none will possibly occur, provide supporting information.*
- Any biological assessments or special biological studies that may have been done for the project.
- Other documents that disclose information about the project's effect on sensitive species.

Protection of Wetlands

Information Needed from the Applicant:

- Identification of whether or not the project or construction activities will impact streams, flood control channels, or wetlands.

Air Quality

Compliance with the Federal Air Quality Act

Information Needed from the Applicant:

- Air quality studies that may have been done for the project.
- For those projects in non-attainment areas or attainment areas subject to maintenance plans:
  - → Emission data for each criteria pollutant for which the area has been designated non-attainment or maintenance; and
  - → Summary of the emissions that are expected from both the construction and operation of the project for each criteria pollutant in a non-attainment or maintenance area.
- If emissions are above the federal de minimis levels, but the project is sized to meet only the needs of current population projections that are used in the approved State Implementation Plan for air quality:
  - → Quantitatively indicate how the proposed capacity increase was calculated using population projections.

Floodplain Management

Information Needed from the Applicant:

- Identification of whether or not the project is in a Flood Management Zone and a copy of the Federal Emergency Management Agency flood zone maps for the project area.

Farmland Protection Policy Act

Information Needed from the Applicant:

- Identification of whether or not the proposed project will impact any important farmland or land under Williamson Act control.

Coastal Zone Management Act

Information Needed from the Applicant:

- Identification of whether or not the proposed project is in the Coastal Zone.

Comment Letter 3
Attachment B

If project emissions are **below the "de minimis" levels** and less than 10% of the emissions inventory for the non-attainment or maintenance area, then:

- **Further general conformity analysis is not required.**

If project emissions are **above the "de minimis" levels**:

- **A conformity determination for the area must be made.**

A conformity determination can be made if facilities are sized to meet the needs of current population projections used in an **approved** State Implementation Plan (SIP) for air quality. Using population projections, applicants must **quantify** their description of how the proposed capacity increase was calculated.

NATIONAL HISTORIC PRESERVATION ACT

Section 106 of the NHPA requires federal agencies to take into account effects on historic properties caused by federal actions (such as funding SRF projects) and to provide the Advisory Council on Historic Preservation (ACHP) a reasonable opportunity to comment on such undertakings through consultation with the State Historic Preservation Officer (SHPO) and with interested Indian Tribes and individuals.

***USEPA has delegated to the State Water Board the responsibility for carrying out the requirements of Section 106 of the NHPA.**

Historic properties include:

- Archaeological sites.
- Historic era buildings.
- Traditional cultural properties.

Starting point for the 106 process: Applicant's record search and cultural resource documents prepared for CEQA.

State Water Board's Cultural Resource Officer (CRO) requires:

- Copies of all original maps and studies for consultation with SHPO.

If your project has the potential to affect historic properties the consultation process can be quite lengthy. **Please contact the CRO early in your planning process to discuss what additional information may be needed for your specific project.**

Environmental Review Process Guidelines for State Revolving Fund Loan Applicants document provides additional information on the review process and can be found on the State Water Board's web site located at:

http://www.waterboards.ca.gov/funding/srf.html

Water Boards

SRF & CEQA-PLUS

Environmental Review for State Revolving Fund (SRF) Loan Applicants

- WHAT - WHY - HOW -

State Water Resources Control Board
Division of Financial Assistance
November 2005

Comment Letter 3
Attachment B Contd.

WHAT IS CEQA-PLUS?

The SRF Loan Program is partially funded by the U.S. Environmental Protection Agency (USEPA) and subject to federal environmental regulations, including the Endangered Species Act (ESA), the National Historic Preservation Act (NHPA), and the General Conformity Rule for the Clean Air Act (CAA), among others. Federal agencies have their own policies on how they comply with federal environmental laws. Instead of the National Environmental Policy Act (NEPA), USEPA has chosen to use the California Environmental Quality Act (CEQA) as the compliance base for California's SRF Loan Program, in addition to compliance with ESA, NHPA and CAA. Collectively, the State Water Board calls these requirements **CEQA-Plus**. Additional federal regulations also may apply.

Lead Agency: The Applicant

Duties:

- Prepare, circulate and consider the environmental documents prior to approving the project.
- Provide the State Water Board with eight (8) copies of the applicant's CEQA documents.

Responsible Agency: State Water Board, Division of Financial Assistance

Duties:

- Acting on behalf of USEPA, review and consider the CEQA documents before approving the project's funding.
- Make findings as to the adequacy of the documents and require additional studies or documentation, as needed.
- Distribute the applicant's CEQA documents to selected federal agencies for review and comment before making a determination on adequacy. (This distribution is in addition to the standard State Clearinghouse distribution under CEQA.)

***The applicant must address all comments by federal agencies before funding is approved.**

ENDANGERED SPECIES ACT

Non-federal Representative (for all wastewater and water reclamation projects in California that involve an SRF loan): **State Water Board**

State Water Board - Environmental Services Staff (ES) reviews SRF projects to determine potential effects on federally listed species.

Applicant Duties:

- At the earliest possible date, provide ES with:
  - **Species lists.**
  - **Biological assessments.**
  - **Other documents related to project effects on sensitive species.**
- Notify ES **early** during the planning process of any issues regarding sensitive species.

ES Duties:

- Confer informally with the U.S. Fish and Wildlife Service (USFWS) and/or National Marine Fisheries Service (NMFS), as necessary.
- Evaluate and inform USFWS/NMFS of project impacts to federally listed species.
- Ask USEPA to request formal consultation if ES, in conjunction with USFWS/NMFS, determines that a project will adversely affect a federally listed species.

***USEPA will act as the lead agency in the formal consultation process. In response to a formal request from USEPA, USFWS/NMFS may have up to 90 days to prepare a biological opinion. The process can last 135 days or longer.**

CLEAN AIR ACT

CAA general conformity analysis applies only to projects in areas:

- Not meeting National Ambient Air Quality Standards (NAAQS).
- Subject to a maintenance plan.

An analysis is necessary for each **criteria pollutant below** for which an area is considered as being in nonattainment or maintenance:

- **ozone**
- **carbon monoxide**
- **nitrogen dioxide**
- **sulfur dioxide**
- **lead**
- **inhalable particulate matter**

Comment Letter 3
Attachment C

BASIC CRITERIA FOR CULTURAL RESOURCES REPORTS

FOR SECTION 106 CONSULTATION WITH THE STATE HISTORIC PRESERVATION OFFICER (SHPO) UNDER THE NATIONAL HISTORIC PRESERVATION ACT (NHPA)

CULTURAL RESOURCES REPORTS
The Section 106 compliance efforts and reports must be prepared by a qualified researcher that meets the Secretary of the Interior's Professional Qualifications Standards (www.cr.nps.gov/local-law/arch_stnds_9.htm).

REPORT TERMINOLOGY
A cultural resources report used for Section 106 consultation should use terminology consistent with 36 CFR, Section 800.16 of the NHPA. This doesn't mean that the report needs to "filled" with passages and interpretations of the regulations, the SHPO reviewer already knows the law.

- If "findings" are made they must be one of the four "findings" listed in Section 106. These include:

  "No historic properties affected" (no properties are within the APE, including the below ground APE).

  "No effect to historic properties" (properties may be near the APE but the project will not impact them).

  "No adverse effect to historic properties" (the project may affect historic properties but the impacts will not be adverse)

  "Adverse effect to historic properties". *Note: the SHPO must be consulted at this point. If your consultant proceeds on his own, his efforts may be wasted.*

CURRENT RECORDS SEARCH INFORMATION

- A current (less than a year old) records search from the appropriate Information Center is necessary. The records search should include maps that show all recorded sites and surveys in relation to the area of potential effects (APE) for the project.

- The APE is three-dimensional and includes all areas that may be affected by the project. It includes the surface area and extends below ground to the depth of any project excavations.

- The records search request should be made for an area larger than the APE. The appropriate area varies for different projects but should be drawn large enough to provide information on what types of sites may exist in the vicinity.

May 2013

1

Comment Letter 3
Attachment C Contd.

NATIVE AMERICAN AND INTERESTED PARTY CONSULTATION

- Native American and interested party consultation should be initiated at the beginning of any cultural resource investigations. The purpose is to gather information from people with local knowledge that may be used to guide research.
- A project description and map should be sent to the Native American Heritage Commission (NAHC) requesting a check of their Sacred Lands Files. The Sacred Lands Files include religious and cultural places that are not recorded at the information centers.
- The NAHC will include a list of Native American groups and individuals with their response. A project description and maps should be sent to everyone on the list asking for information on the project area.
- Similar letters should be sent to local historical organizations.
- Follow-up contact should be made by phone if possible and a phone log should be included in the report.

WARNING PHRASES IN ALREADY PREPARED CEQA REPORTS

- A finding of **"no known resources"**, this doesn't mean anything. The consultant's job is to find out if there are resources within the APE or to explain why they are not present.
- **"The area is sensitive for buried archaeological resources",** followed by a statement that **"monitoring is recommended as mitigation".** Monitoring is not an acceptable mitigation. A reasonable effort should be made to find out if buried resources are present in the APE.
- **"The area is already disturbed by previous construction",** this may be true, but documentation is still needed to show that the new project will not affect cultural resources. As an example, an existing road can be protecting a buried archaeological site. Or, previous construction may have impacted an archaeological site that was never documented.
- No mention of **"Section 106"**, a report that gives adequate information for CEQA may not be sufficient to comply with Section 106.

SHPO CONSULTATION LETTER

- A Section 106 consultation letter should be prepared by a qualified researcher, and submitted along with the Section 106 Report to the State Water Board to use to consultant with the State Historic Preservation Officer.

STATE WATER BOARD CONTACT INFORAMTION

Please contact Mr. Ahmad Kashkoli 916-341-5855 or akashkoli@waterboards.ca.gov if you have any questions related to CWSRF Program cultural resources compliance.

Comment Letter 3
Attachment D

CLEAN WATER STATE REVOLVING FUND PROGRAM
INSTRUCTIONS AND GUIDANCE FOR
"ENVIRONMENTAL COMPLIANCE INFORMATION"

Introduction:

The State Water Resources Control Board (State Water Board) uses the California Environmental Quality Act (CEQA) review process and compliance with federal environmental laws and regulations to satisfy the environmental requirements of the Clean Water State Revolving Fund (CWSRF) Program Operating Agreement between the United States Environmental Protection Agency (USEPA) and the State Water Board. The CWSRF Program is partially funded by a capitalization grant from the USEPA. The issuance of funds from the CWSRF Program is equivalent to a federal action, and thus, compliance with federal environmental laws and regulations is required for projects being funded under the CWSRF Program.

All CWSRF Program applicants must submit adequate and complete environmental documentation to the State Water Board. Following submittal of an applicant's environmental documents, the State Water Board will review the documents to determine if the information is sufficient to document compliance with the CWSRF Program environmental requirements, including making a determination if consultation with federal authorities is required, and may request additional environmental information, when needed. The State Water Board encourages all applicants to initiate early consultation, so that the State Water Board can better streamline the environmental review process.

CEQA Information:

All projects coming to the State Water Board for funding are considered "projects" under CEQA because of the State Water Board's discretionary decision to approve funding.

Detailed information, including CEQA statutes and guidelines can be found online at the California Natural Resources Agency website at http://ceres.ca.gov/ceqa. A CEQA Process Flowchart that shows interaction points between lead and responsible agencies can be found at http://ceres.ca.gov/topic/env_law/ceqa/flowchart/index.html. In addition, State Water Board environmental staff is available to answer questions about the CEQA process, as well as the CWSRF Program environmental requirements. Please contact your assigned Project Manager at the State Water Board, regarding contact information for the appropriate environmental staff.

CEQA requires full disclosure of all aspects of the project, including impacts and mitigation measures that are not only regulated by state agencies, but also by federal agencies. Early consultation with state and federal agencies in the CEQA process will assist in minimizing changes to the project when funding is being requested from the State Water Board.

The types of CEQA documents that may apply to an applicant's project include one or a combination of the following: 1) Notice of Exemption (NOE); 2) Initial Study and Negative Declaration (ND); 3) Initial Study and Mitigated Negative Declaration (MND) with a Mitigation Monitoring and Reporting Program (MMRP); 4) Environmental Impact Report (EIR) with an MMRP; and/or 5) Addendum, Supplemental and Subsequent ND, MND or EIR. The applicant must determine the appropriate document for its project and submit the supporting information listed under the applicable section of the Environmental Package Checklist for Applicant (Attachment 1), along with a completed copy of the Evaluation Form for Environmental Review and Federal Coordination (Attachment 2). Please submit two copies of all CEQA documents.

Response to Comment Letter 3

State Water Resources Control Board
Ahmad Kashkoli, Senior Environmental Scientist
May 8, 2013

3-1 The documents and notices requested by the State Water Resources Control Board (SWRCB) will be sent to the SWRCB as requested when they become available.

3-2 The SWRCB notes the applicable regulations and requirements that may apply to the project. All applicable regulations and requirements for the proposed project will be adhered to by the City of South Pasadena as identified in the IS/MND and the funding application. As part of compliance with regulations related to cultural resources, including Section 106, the Native American Heritage Commission (NAHC) was contacted by Dudek on May 29, 2013, to request a search of the Sacred Lands File for the project area. The NAHC responded on May 30, 2013, and stated that no traditional cultural properties were identified in the project area. The NAHC also provided a list of Native American tribal groups and individuals to contact for additional information about the area. Dudek sent letters with project location maps to those contacts on May 30, 2013. As of June 3, 2013, only John Tommy Rosas had responded (via email), stating that he received the letter from Dudek and will reply again after reviewing his records. The correspondence is included in the Final MND as Appendix G.

3-3 Figure 3 of the IS/MND shows the locations of the sewer segments to be repaired by trenchless lining (CIPP) or by open trench construction. The Area of Potential Effect (APE) associated with each of these construction methods, including construction and staging areas and excavation dimensions, is described on pages 5, 6, and 13 of the IS/MND. Additionally, Figure 4 has been added to the MND to more clearly show the APE associated with the project along with a text reference to the figure shown in <u>underlined</u> text. The letter sent to the California Office of Historic Preservation also includes a description of the APE.

3-4 The contractor would be required to have a health and safety plan in effect at least one week prior to commencement of construction. The plan shall meet all Occupational Safety and Health Administration (OSHA) and other applicable requirements. The plan shall specifically address procedures and protocols that would be followed to monitor for the presence of hazardous atmosphere, exposure to hazardous products such as may be present in contaminated soil and groundwater,

and identify response actions that would be taken when these conditions are encountered. The plan shall also include a spill response and implementation plan for construction wastes (e.g., concrete waste products, contaminated soil, hazardous materials, liquid waste products, solid waste products, and sanitary or septic waste). The transport, storage, and handling of any hazardous materials encountered shall be in accordance with the CFR 1910.120, Hazardous Waste Operations and Emergency Response, CFR 49.12 Hazardous Materials Regulations, and the General Industry Safety Orders of the California Code of Regulations, Title 8, Section 5194.

3-5 The contractor would be required comply with Order No. 2009-0009-DWQ as amended by 2010-0014 DWQ, NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities. This project is classified as a Linear Underground/Overhead Project (LUP). A Stormwater Pollution Prevention Plan (SWPPP) would be required to be prepared by the contractor if the LUP results in a land disturbance greater than 1 acre. As part of the SWPPP preparation and implementation, the contractor would select and install construction BMPs per the California Storm Water Best Management Practice Handbook for Construction Activity (BMP Handbook), 2009 Edition.

It is anticipated that the project will result in a land disturbance less than 1 acre, and therefore, an SWPPP will not be required. The contractor will still be required to utilize construction BMPs per the BMP Handbook to protect channels, storm drains, and bodies of water from pollution, in accordance with the City's MS4 permit compliance requirements.

There are no long-term or permanent BMPs required for this pipeline rehabilitation and replacement project.

3-6 For open trench construction, traffic will be temporarily detoured from its normal patterns along the entire length of the pipe to be replaced (maximum 1,000-foot intervals) to form the construction zone. Depending on the location of the pipe within the right-of-way, traffic will be displaced from either one travel lane, parts of two travel lanes, the parking area, or the parking area and part of the adjacent travel lane. Transitioning of traffic lanes from permanent lanes to construction zone patterns will be performed in accordance with the requirements for the normal posted speed limit and the latest edition of the Work Area Traffic Control Handbook (WATCH).

For those locations where a single lane of traffic is required to pass by the construction zone, a flagger would be required to direct the two directions of traffic flow.

In very limited situations, such as narrow streets or alleys, a temporary road closure and detour would be necessary. During the duration of a detour, existing signs not in accordance with the traffic control plan will be covered.

Roadways and sidewalks would be returned to unrestricted vehicle and pedestrian usage when construction is completed. If required, steel plate bridging will be used to temporarily cover excavations, but shall not be used at any given location for more than four consecutive working days in a given week.

For the CIPP method of construction, traffic control will consist of detouring traffic from its normal patterns only in the vicinity of the two manholes to be accessed. No street closures are anticipated. As noted in the IS/MND, a construction area traffic control plan would be required for each location where construction activities would encroach into the right-of-way of a public roadway (Mitigation Measure TRA-1).

3-7 The mitigation monitoring and reporting program (MMRP) is included in this Final MND as Section 5.

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7~~6~~.0 REFERENCES

14 CCR 15000–15387 and Appendix A–L. Guidelines for Implementation of the California Environmental Quality Act, as amended.

16 U.S.C. 703–712. Migratory Bird Treaty Act, as amended.

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CAPCOA (California Air Pollution Control Officers Association). 2008. *CEQA & Climate Change: Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act*. January 2008.

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CNRA 2009b. *Final Statement of Reasons for Regulatory Action: Amendments to the State CEQA Guidelines Addressing Analysis and Mitigation of Greenhouse Gas Emissions Pursuant to SB97*. December 2009.

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FHWA (Federal Highway Administration). 2008. Roadway Construction Noise Model (RCNM), Software Version 1.1. U.S. Department of Transportation, Research and Innovative Technology Administration, John A. Volpe National Transportation Systems Center, Environmental Measurement and Modeling Division. Washington, D.C. December 8.

FTA (Federal Transit Administration), Office of Planning and Environment. 2006. Transit Noise and Vibration Impact Assessment. FTA-VA-90-1003-06. Washington, D.C.

OPR (California Governor's Office of Planning and Research). 2008. Technical Advisory – CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act (CEQA) Review. June 19, 2008.

SCAQMD (South Coast Air Quality Management District). 2011. "SCAQMD Air Quality Significance Thresholds." Originally published in CEQA Air Quality Handbook, Table A9-11-A. Originally published in 1993, revised March 2011. Accessed February 2012. http://www.aqmd.gov/ ceqa/handbook/signthres.pdf.

APPENDIX A

Air Quality and Greenhouse Gases

CalEEMod 2011.1.1
Daily Construction Emissions

South Pasadena Wastewater Pipeline Improvement Project

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
User Defined Industrial	217.8	User Defined Unit

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	9		2.2		
		Precipitation Freq (Days)			
			31		

1.3 User Entered Comments

Project Characteristics -

Land Use - 5 acres

Construction Phase - Trenching (Pipeline Replacement): 8/1/2013-8/1/2014. Paving (Pipeline Replacement): 8/1/2013-8/1/2014. Construction (Pipeline Rehabilitation): 8/1/2013-8/1/2017.

Trenching (Open Trench Construction) Off-road Equipment - 1 Tractor/Loader/Backhoe (8 hrs/day).

Paving (Open Trench Construction) Off-road Equipment - 1 Paver (8 hrs/day).

Construction (CIPP Construction) Off-road Equipment - 1 Pump (8 hrs/day). 1 Pressure Washer (8 hrs/day).

Trips and VMT - Trenching: 12 worker trips/day; 2 vendor trips/day; 10 total haul truck trips. Paving: 4 worker trips/day; 2 vendor trips/day; 0 total haul truck trips. Construction: 10 worker trips/day; 8 vendor trips/day; 0 total haul truck trips.

Vehicle Trips - No operational trips

Construction Off-road Equipment Mitigation -

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2013	2.98	19.09	14.18	0.02	0.74	1.48	2.22	0.01	1.47	1.48	0.00	2,258.06	0.00	0.26	0.00	2,263.56
2014	2.76	17.91	13.83	0.02	0.74	1.35	2.10	0.01	1.35	1.35	0.00	2,253.30	0.00	0.24	0.00	2,258.40
2015	0.95	6.85	5.45	0.01	0.23	0.46	0.69	0.00	0.46	0.46	0.00	991.81	0.00	0.08	0.00	993.54
2016	0.86	6.35	5.33	0.01	0.23	0.41	0.64	0.00	0.41	0.41	0.00	990.46	0.00	0.07	0.00	992.03
2017	0.78	5.88	5.21	0.01	0.23	0.37	0.60	0.00	0.36	0.37	0.00	988.45	0.00	0.07	0.00	989.87
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2013	2.98	19.09	14.18	0.02	0.74	1.48	2.22	0.01	1.47	1.48	0.00	2,258.06	0.00	0.26	0.00	2,263.56
2014	2.76	17.91	13.83	0.02	0.74	1.35	2.10	0.01	1.35	1.35	0.00	2,253.30	0.00	0.24	0.00	2,258.40
2015	0.95	6.85	5.45	0.01	0.23	0.46	0.69	0.00	0.46	0.46	0.00	991.81	0.00	0.08	0.00	993.54
2016	0.86	6.35	5.33	0.01	0.23	0.41	0.64	0.00	0.41	0.41	0.00	990.46	0.00	0.07	0.00	992.03
2017	0.78	5.88	5.21	0.01	0.23	0.37	0.60	0.00	0.36	0.37	0.00	988.45	0.00	0.07	0.00	989.87
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Trenching - Pipeline Replacement - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.55	3.65	2.82	0.00		0.31	0.31		0.31	0.31		413.07		0.05		414.11
Total	**0.55**	**3.65**	**2.82**	**0.00**		**0.31**	**0.31**		**0.31**	**0.31**		**413.07**		**0.05**		**414.11**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.02	0.01	0.00	0.23	0.00	0.23	0.00	0.00	0.00		3.16		0.00		3.16
Vendor	0.03	0.35	0.22	0.00	0.02	0.01	0.03	0.00	0.01	0.01		54.72		0.00		54.76
Worker	0.08	0.09	0.83	0.00	0.18	0.01	0.19	0.00	0.01	0.01		138.19		0.01		138.36
Total	**0.11**	**0.46**	**1.06**	**0.00**	**0.43**	**0.02**	**0.45**	**0.00**	**0.02**	**0.02**		**196.07**		**0.01**		**196.28**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.55	3.65	2.82	0.00		0.31	0.31		0.31	0.31	0.00	413.07		0.05		414.11
Total	**0.55**	**3.65**	**2.82**	**0.00**		**0.31**	**0.31**		**0.31**	**0.31**	**0.00**	**413.07**		**0.05**		**414.11**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.02	0.01	0.00	0.23	0.00	0.23	0.00	0.00	0.00		3.16		0.00		3.16
Vendor	0.03	0.35	0.22	0.00	0.02	0.01	0.03	0.00	0.01	0.01		54.72		0.00		54.76
Worker	0.08	0.09	0.83	0.00	0.18	0.01	0.19	0.00	0.01	0.01		138.19		0.01		138.36
Total	**0.11**	**0.46**	**1.06**	**0.00**	**0.43**	**0.02**	**0.45**	**0.00**	**0.02**	**0.02**		**196.07**		**0.01**		**196.28**

3.2 Trenching - Pipeline Replacement - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.51	3.40	2.80	0.00		0.27	0.27		0.27	0.27		413.07		0.05		414.02
Total	**0.51**	**3.40**	**2.80**	**0.00**		**0.27**	**0.27**		**0.27**	**0.27**		**413.07**		**0.05**		**414.02**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.02	0.01	0.00	0.23	0.00	0.23	0.00	0.00	0.00		3.16		0.00		3.17
Vendor	0.03	0.31	0.20	0.00	0.02	0.01	0.03	0.00	0.01	0.01		54.82		0.00		54.85
Worker	0.07	0.08	0.76	0.00	0.18	0.01	0.19	0.00	0.01	0.01		135.72		0.01		135.89
Total	**0.10**	**0.41**	**0.97**	**0.00**	**0.43**	**0.02**	**0.45**	**0.00**	**0.02**	**0.02**		**193.70**		**0.01**		**193.91**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.51	3.40	2.80	0.00		0.27	0.27		0.27	0.27	0.00	413.07		0.05		414.02
Total	**0.51**	**3.40**	**2.80**	**0.00**		**0.27**	**0.27**		**0.27**	**0.27**	**0.00**	**413.07**		**0.05**		**414.02**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.02	0.01	0.00	0.23	0.00	0.23	0.00	0.00	0.00		3.16		0.00		3.17
Vendor	0.03	0.31	0.20	0.00	0.02	0.01	0.03	0.00	0.01	0.01		54.82		0.00		54.85
Worker	0.07	0.08	0.76	0.00	0.18	0.01	0.19	0.00	0.01	0.01		135.72		0.01		135.89
Total	**0.10**	**0.41**	**0.97**	**0.00**	**0.43**	**0.02**	**0.45**	**0.00**	**0.02**	**0.02**		**193.70**		**0.01**		**193.91**

3.3 Construction - Pipeline Rehabilitation - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.96	6.48	4.23	0.01		0.51	0.51		0.51	0.51		661.52		0.09		663.33
Total	**0.96**	**6.48**	**4.23**	**0.01**		**0.51**	**0.51**		**0.51**	**0.51**		**661.52**		**0.09**		**663.33**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.12	1.39	0.86	0.00	0.07	0.05	0.12	0.00	0.04	0.04		218.90		0.01		219.02
Worker	0.07	0.07	0.69	0.00	0.15	0.01	0.16	0.00	0.00	0.01		115.16		0.01		115.30
Total	**0.19**	**1.46**	**1.55**	**0.00**	**0.22**	**0.06**	**0.28**	**0.00**	**0.04**	**0.05**		**334.06**		**0.02**		**334.32**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.96	6.48	4.23	0.01		0.51	0.51		0.51	0.51	0.00	661.52		0.09		663.33
Total	**0.96**	**6.48**	**4.23**	**0.01**		**0.51**	**0.51**		**0.51**	**0.51**	**0.00**	**661.52**		**0.09**		**663.33**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.12	1.39	0.86	0.00	0.07	0.05	0.12	0.00	0.04	0.04		218.90		0.01		219.02
Worker	0.07	0.07	0.69	0.00	0.15	0.01	0.16	0.00	0.00	0.01		115.16		0.01		115.30
Total	**0.19**	**1.46**	**1.55**	**0.00**	**0.22**	**0.06**	**0.28**	**0.00**	**0.04**	**0.05**		**334.06**		**0.02**		**334.32**

3.3 Construction - Pipeline Rehabilitation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.88	6.09	4.18	0.01		0.46	0.46		0.46	0.46		661.52		0.08		663.16
Total	**0.88**	**6.09**	**4.18**	**0.01**		**0.46**	**0.46**		**0.46**	**0.46**		**661.52**		**0.08**		**663.16**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.11	1.25	0.79	0.00	0.07	0.04	0.12	0.00	0.04	0.04		219.28		0.01		219.39
Worker	0.06	0.07	0.63	0.00	0.15	0.01	0.16	0.00	0.00	0.01		113.10		0.01		113.24
Total	**0.17**	**1.32**	**1.42**	**0.00**	**0.22**	**0.05**	**0.28**	**0.00**	**0.04**	**0.05**		**332.38**		**0.02**		**332.63**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.88	6.09	4.18	0.01		0.46	0.46		0.46	0.46	0.00	661.52		0.08		663.16
Total	**0.88**	**6.09**	**4.18**	**0.01**		**0.46**	**0.46**		**0.46**	**0.46**	**0.00**	**661.52**		**0.08**		**663.16**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.11	1.25	0.79	0.00	0.07	0.04	0.12	0.00	0.04	0.04		219.28		0.01		219.39
Worker	0.06	0.07	0.63	0.00	0.15	0.01	0.16	0.00	0.00	0.01		113.10		0.01		113.24
Total	**0.17**	**1.32**	**1.42**	**0.00**	**0.22**	**0.05**	**0.28**	**0.00**	**0.04**	**0.05**		**332.38**		**0.02**		**332.63**

3.3 Construction - Pipeline Rehabilitation - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.80	5.66	4.14	0.01		0.42	0.42		0.42	0.42		661.52		0.07		663.02
Total	**0.80**	**5.66**	**4.14**	**0.01**		**0.42**	**0.42**		**0.42**	**0.42**		**661.52**		**0.07**		**663.02**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.10	1.14	0.73	0.00	0.07	0.04	0.11	0.00	0.03	0.04		219.63		0.00		219.74
Worker	0.06	0.06	0.58	0.00	0.15	0.01	0.16	0.00	0.00	0.01		110.65		0.01		110.78
Total	**0.16**	**1.20**	**1.31**	**0.00**	**0.22**	**0.05**	**0.27**	**0.00**	**0.03**	**0.05**		**330.28**		**0.01**		**330.52**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.80	5.66	4.14	0.01		0.42	0.42		0.42	0.42	0.00	661.52		0.07		663.02
Total	**0.80**	**5.66**	**4.14**	**0.01**		**0.42**	**0.42**		**0.42**	**0.42**	**0.00**	**661.52**		**0.07**		**663.02**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.10	1.14	0.73	0.00	0.07	0.04	0.11	0.00	0.03	0.04		219.63		0.00		219.74
Worker	0.06	0.06	0.58	0.00	0.15	0.01	0.16	0.00	0.00	0.01		110.65		0.01		110.78
Total	**0.16**	**1.20**	**1.31**	**0.00**	**0.22**	**0.05**	**0.27**	**0.00**	**0.03**	**0.05**		**330.28**		**0.01**		**330.52**

3.3 Construction - Pipeline Rehabilitation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.72	5.25	4.11	0.01		0.37	0.37		0.37	0.37		661.52		0.06		662.88
Total	**0.72**	**5.25**	**4.11**	**0.01**		**0.37**	**0.37**		**0.37**	**0.37**		**661.52**		**0.06**		**662.88**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.09	1.05	0.68	0.00	0.07	0.03	0.11	0.00	0.03	0.03		220.16		0.00		220.25
Worker	0.05	0.06	0.54	0.00	0.15	0.01	0.16	0.00	0.00	0.01		108.79		0.01		108.91
Total	**0.14**	**1.11**	**1.22**	**0.00**	**0.22**	**0.04**	**0.27**	**0.00**	**0.03**	**0.04**		**328.95**		**0.01**		**329.16**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.72	5.25	4.11	0.01		0.37	0.37		0.37	0.37	0.00	661.52		0.06		662.88
Total	**0.72**	**5.25**	**4.11**	**0.01**		**0.37**	**0.37**		**0.37**	**0.37**	**0.00**	**661.52**		**0.06**		**662.88**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.09	1.05	0.68	0.00	0.07	0.03	0.11	0.00	0.03	0.03		220.16		0.00		220.25
Worker	0.05	0.06	0.54	0.00	0.15	0.01	0.16	0.00	0.00	0.01		108.79		0.01		108.91
Total	**0.14**	**1.11**	**1.22**	**0.00**	**0.22**	**0.04**	**0.27**	**0.00**	**0.03**	**0.04**		**328.95**		**0.01**		**329.16**

3.3 Construction - Pipeline Rehabilitation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.65	4.86	4.08	0.01		0.33	0.33		0.33	0.33		661.52		0.06		662.74
Total	**0.65**	**4.86**	**4.08**	**0.01**		**0.33**	**0.33**		**0.33**	**0.33**		**661.52**		**0.06**		**662.74**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.09	0.96	0.64	0.00	0.07	0.03	0.10	0.00	0.03	0.03		220.45		0.00		220.54
Worker	0.05	0.05	0.49	0.00	0.15	0.01	0.16	0.00	0.00	0.01		106.48		0.01		106.59
Total	**0.14**	**1.01**	**1.13**	**0.00**	**0.22**	**0.04**	**0.26**	**0.00**	**0.03**	**0.04**		**326.93**		**0.01**		**327.13**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.65	4.86	4.08	0.01		0.33	0.33		0.33	0.33	0.00	661.52		0.06		662.74
Total	**0.65**	**4.86**	**4.08**	**0.01**		**0.33**	**0.33**		**0.33**	**0.33**	**0.00**	**661.52**		**0.06**		**662.74**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.09	0.96	0.64	0.00	0.07	0.03	0.10	0.00	0.03	0.03		220.45		0.00		220.54
Worker	0.05	0.05	0.49	0.00	0.15	0.01	0.16	0.00	0.00	0.01		106.48		0.01		106.59
Total	**0.14**	**1.01**	**1.13**	**0.00**	**0.22**	**0.04**	**0.26**	**0.00**	**0.03**	**0.04**		**326.93**		**0.01**		**327.13**

3.4 Paving - Pipeline Replacement - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.11	6.67	4.04	0.01		0.58	0.58		0.58	0.58		552.57		0.10		554.65
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**1.11**	**6.67**	**4.04**	**0.01**		**0.58**	**0.58**		**0.58**	**0.58**		**552.57**		**0.10**		**554.65**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.03	0.35	0.22	0.00	0.02	0.01	0.03	0.00	0.01	0.01		54.72		0.00		54.76
Worker	0.03	0.03	0.28	0.00	0.06	0.00	0.06	0.00	0.00	0.00		46.06		0.00		46.12
Total	**0.06**	**0.38**	**0.50**	**0.00**	**0.08**	**0.01**	**0.09**	**0.00**	**0.01**	**0.01**		**100.78**		**0.00**		**100.88**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.11	6.67	4.04	0.01		0.58	0.58		0.58	0.58	0.00	552.57		0.10		554.65
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**1.11**	**6.67**	**4.04**	**0.01**		**0.58**	**0.58**		**0.58**	**0.58**	**0.00**	**552.57**		**0.10**		**554.65**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.03	0.35	0.22	0.00	0.02	0.01	0.03	0.00	0.01	0.01		54.72		0.00		54.76
Worker	0.03	0.03	0.28	0.00	0.06	0.00	0.06	0.00	0.00	0.00		46.06		0.00		46.12
Total	**0.06**	**0.38**	**0.50**	**0.00**	**0.08**	**0.01**	**0.09**	**0.00**	**0.01**	**0.01**		**100.78**		**0.00**		**100.88**

3.4 Paving - Pipeline Replacement - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.05	6.35	4.00	0.01		0.54	0.54		0.54	0.54		552.57		0.09		554.55
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**1.05**	**6.35**	**4.00**	**0.01**		**0.54**	**0.54**		**0.54**	**0.54**		**552.57**		**0.09**		**554.55**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.03	0.31	0.20	0.00	0.02	0.01	0.03	0.00	0.01	0.01		54.82		0.00		54.85
Worker	0.02	0.03	0.25	0.00	0.06	0.00	0.06	0.00	0.00	0.00		45.24		0.00		45.30
Total	**0.05**	**0.34**	**0.45**	**0.00**	**0.08**	**0.01**	**0.09**	**0.00**	**0.01**	**0.01**		**100.06**		**0.00**		**100.15**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.05	6.35	4.00	0.01		0.54	0.54		0.54	0.54	0.00	552.57		0.09		554.55
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**1.05**	**6.35**	**4.00**	**0.01**		**0.54**	**0.54**		**0.54**	**0.54**	**0.00**	**552.57**		**0.09**		**554.55**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.03	0.31	0.20	0.00	0.02	0.01	0.03	0.00	0.01	0.01		54.82		0.00		54.85
Worker	0.02	0.03	0.25	0.00	0.06	0.00	0.06	0.00	0.00	0.00		45.24		0.00		45.30
Total	**0.05**	**0.34**	**0.45**	**0.00**	**0.08**	**0.01**	**0.09**	**0.00**	**0.01**	**0.01**		**100.06**		**0.00**		**100.15**

4.0 Mobile Detail

5.0 Energy Detail

6.0 Area Detail

7.0 Water Detail

8.0 Waste Detail

9.0 Vegetation

CalEEMod 2011.1.1
Annual Construction Emissions

South Pasadena Wastewater Pipeline Improvement Project

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
User Defined Industrial	217.8	User Defined Unit

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	9		2.2		
		Precipitation Freq (Days)			
			31		

1.3 User Entered Comments

Project Characteristics -

Land Use - 5 acres

Construction Phase - Trenching (Pipeline Replacement): 8/1/2013-8/1/2014. Paving (Pipeline Replacement): 8/1/2013-8/1/2014. Construction (Pipeline Rehabilitation): 8/1/2013-8/1/2017.

Trenching (Open Trench Construction) Off-road Equipment - 1 Tractor/Loader/Backhoe (8 hrs/day).

Paving (Open Trench Construction) Off-road Equipment - 1 Paver (8 hrs/day).

Construction (CIPP Construction) Off-road Equipment - 1 Pump (8 hrs/day). 1 Pressure Washer (8 hrs/day).

Trips and VMT - Trenching: 12 worker trips/day; 2 vendor trips/day; 10 total haul truck trips. Paving: 4 worker trips/day; 2 vendor trips/day; 0 total haul truck trips. Construction: 10 worker trips/day; 8 vendor trips/day; 0 total haul truck trips.

Vehicle Trips - No operational trips

Construction Off-road Equipment Mitigation -

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2013	0.07	0.44	0.34	0.00	0.01	0.03	0.05	0.00	0.03	0.03	0.00	50.70	50.70	0.01	0.00	50.82
2014	0.12	0.80	0.64	0.00	0.03	0.06	0.09	0.00	0.06	0.06	0.00	99.03	99.03	0.01	0.00	99.23
2015	0.07	0.51	0.41	0.00	0.02	0.03	0.05	0.00	0.03	0.03	0.00	67.75	67.75	0.01	0.00	67.87
2016	0.06	0.47	0.40	0.00	0.02	0.03	0.05	0.00	0.03	0.03	0.00	67.66	67.66	0.01	0.00	67.77
2017	0.03	0.25	0.23	0.00	0.01	0.02	0.02	0.00	0.02	0.02	0.00	39.16	39.16	0.00	0.00	39.22
Total	**0.35**	**2.47**	**2.02**	**0.00**	**0.09**	**0.17**	**0.26**	**0.00**	**0.17**	**0.17**	**0.00**	**324.30**	**324.30**	**0.04**	**0.00**	**324.91**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2013	0.07	0.44	0.34	0.00	0.01	0.03	0.05	0.00	0.03	0.03	0.00	50.70	50.70	0.01	0.00	50.82
2014	0.12	0.80	0.64	0.00	0.03	0.06	0.09	0.00	0.06	0.06	0.00	99.03	99.03	0.01	0.00	99.23
2015	0.07	0.51	0.41	0.00	0.02	0.03	0.05	0.00	0.03	0.03	0.00	67.75	67.75	0.01	0.00	67.87
2016	0.06	0.47	0.40	0.00	0.02	0.03	0.05	0.00	0.03	0.03	0.00	67.66	67.66	0.01	0.00	67.77
2017	0.03	0.25	0.23	0.00	0.01	0.02	0.02	0.00	0.02	0.02	0.00	39.16	39.16	0.00	0.00	39.22
Total	**0.35**	**2.47**	**2.02**	**0.00**	**0.09**	**0.17**	**0.26**	**0.00**	**0.17**	**0.17**	**0.00**	**324.30**	**324.30**	**0.04**	**0.00**	**324.91**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Trenching - Pipeline Replacement 2013 - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.02	0.11	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.86	10.86	0.00	0.00	10.89
Total	**0.02**	**0.11**	**0.08**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**10.86**	**10.86**	**0.00**	**0.00**	**10.89**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.15	0.00	0.00	0.15
Vendor	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	1.45	0.00	0.00	1.45
Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74	3.74	0.00	0.00	3.74
Total	**0.00**	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**5.34**	**5.34**	**0.00**	**0.00**	**5.34**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.02	0.11	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.86	10.86	0.00	0.00	10.89
Total	**0.02**	**0.11**	**0.08**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**10.86**	**10.86**	**0.00**	**0.00**	**10.89**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.15	0.00	0.00	0.15
Vendor	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	1.45	0.00	0.00	1.45
Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74	3.74	0.00	0.00	3.74
Total	**0.00**	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**5.34**	**5.34**	**0.00**	**0.00**	**5.34**

3.3 Construction - Pipeline Rehabilitation 2013 - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.03	0.20	0.13	0.00		0.02	0.02		0.02	0.02	0.00	18.90	18.90	0.00	0.00	18.95
Total	**0.03**	**0.20**	**0.13**	**0.00**		**0.02**	**0.02**		**0.02**	**0.02**	**0.00**	**18.90**	**18.90**	**0.00**	**0.00**	**18.95**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.28	6.28	0.00	0.00	6.29
Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.38	3.38	0.00	0.00	3.39
Total	**0.00**	**0.04**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**9.66**	**9.66**	**0.00**	**0.00**	**9.68**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.03	0.20	0.13	0.00		0.02	0.02		0.02	0.02	0.00	18.90	18.90	0.00	0.00	18.95
Total	**0.03**	**0.20**	**0.13**	**0.00**		**0.02**	**0.02**		**0.02**	**0.02**	**0.00**	**18.90**	**18.90**	**0.00**	**0.00**	**18.95**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.28	6.28	0.00	0.00	6.29
Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.38	3.38	0.00	0.00	3.39
Total	**0.00**	**0.04**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**9.66**	**9.66**	**0.00**	**0.00**	**9.68**

3.4 Paving - Pipeline Replacement 2013 - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.01	0.07	0.04	0.00		0.01	0.01		0.01	0.01	0.00	5.01	5.01	0.00	0.00	5.03
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.01**	**0.07**	**0.04**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**5.01**	**5.01**	**0.00**	**0.00**	**5.03**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.50
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.43	0.00	0.00	0.43
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.93**	**0.93**	**0.00**	**0.00**	**0.93**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.01	0.07	0.04	0.00		0.01	0.01		0.01	0.01	0.00	5.01	5.01	0.00	0.00	5.03
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.01**	**0.07**	**0.04**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**5.01**	**5.01**	**0.00**	**0.00**	**5.03**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.50
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.43	0.00	0.00	0.43
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.93**	**0.93**	**0.00**	**0.00**	**0.93**

3.5 Trenching - Pipeline Replacement 2014 - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.02	0.14	0.11	0.00		0.01	0.01		0.01	0.01	0.00	15.36	15.36	0.00	0.00	15.40
Total	**0.02**	**0.14**	**0.11**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**15.36**	**15.36**	**0.00**	**0.00**	**15.40**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.23	0.23	0.00	0.00	0.23
Vendor	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.00	0.00	2.05
Worker	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	5.19	5.19	0.00	0.00	5.20
Total	**0.00**	**0.01**	**0.04**	**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**7.47**	**7.47**	**0.00**	**0.00**	**7.48**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.02	0.14	0.11	0.00		0.01	0.01		0.01	0.01	0.00	15.36	15.36	0.00	0.00	15.40
Total	**0.02**	**0.14**	**0.11**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**15.36**	**15.36**	**0.00**	**0.00**	**15.40**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.23	0.23	0.00	0.00	0.23
Vendor	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.00	0.00	2.05
Worker	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	5.19	5.19	0.00	0.00	5.20
Total	**0.00**	**0.01**	**0.04**	**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**7.47**	**7.47**	**0.00**	**0.00**	**7.48**

3.6 Construction - Pipeline Rehabilitation 2014 - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.07	0.46	0.31	0.00		0.03	0.03		0.03	0.03	0.00	45.00	45.00	0.01	0.00	45.11
Total	**0.07**	**0.46**	**0.31**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**45.00**	**45.00**	**0.01**	**0.00**	**45.11**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.09	0.06	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	14.99	14.99	0.00	0.00	15.00
Worker	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	7.91	7.91	0.00	0.00	7.92
Total	**0.01**	**0.09**	**0.11**	**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**22.90**	**22.90**	**0.00**	**0.00**	**22.92**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.07	0.46	0.31	0.00		0.03	0.03		0.03	0.03	0.00	45.00	45.00	0.01	0.00	45.11
Total	**0.07**	**0.46**	**0.31**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**45.00**	**45.00**	**0.01**	**0.00**	**45.11**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.09	0.06	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	14.99	14.99	0.00	0.00	15.00
Worker	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	7.91	7.91	0.00	0.00	7.92
Total	**0.01**	**0.09**	**0.11**	**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**22.90**	**22.90**	**0.00**	**0.00**	**22.92**

3.7 Paving - Pipeline Replacement 2014 - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.01	0.09	0.06	0.00		0.01	0.01		0.01	0.01	0.00	7.02	7.02	0.00	0.00	7.04
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.01**	**0.09**	**0.06**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**7.02**	**7.02**	**0.00**	**0.00**	**7.04**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.00	0.00	0.70
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.59	0.00	0.00	0.59
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.29**	**1.29**	**0.00**	**0.00**	**1.29**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.01	0.09	0.06	0.00		0.01	0.01		0.01	0.01	0.00	7.02	7.02	0.00	0.00	7.04
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.01**	**0.09**	**0.06**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**7.02**	**7.02**	**0.00**	**0.00**	**7.04**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.00	0.00	0.70
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.59	0.00	0.00	0.59
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.29**	**1.29**	**0.00**	**0.00**	**1.29**

3.8 Construction - Pipeline Rehabilitation 2015 - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.06	0.42	0.31	0.00		0.03	0.03		0.03	0.03	0.00	45.00	45.00	0.00	0.00	45.10
Total	**0.06**	**0.42**	**0.31**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**45.00**	**45.00**	**0.00**	**0.00**	**45.10**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.08	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	15.02	15.02	0.00	0.00	15.02
Worker	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	7.74	7.74	0.00	0.00	7.75
Total	**0.01**	**0.08**	**0.09**	**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**22.76**	**22.76**	**0.00**	**0.00**	**22.77**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.06	0.42	0.31	0.00		0.03	0.03		0.03	0.03	0.00	45.00	45.00	0.00	0.00	45.10
Total	**0.06**	**0.42**	**0.31**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**45.00**	**45.00**	**0.00**	**0.00**	**45.10**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.08	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	15.02	15.02	0.00	0.00	15.02
Worker	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	7.74	7.74	0.00	0.00	7.75
Total	**0.01**	**0.08**	**0.09**	**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**22.76**	**22.76**	**0.00**	**0.00**	**22.77**

3.9 Construction - Pipeline Rehabilitation 2016 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.05	0.39	0.31	0.00		0.03	0.03		0.03	0.03	0.00	45.00	45.00	0.00	0.00	45.09
Total	**0.05**	**0.39**	**0.31**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**45.00**	**45.00**	**0.00**	**0.00**	**45.09**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.08	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	15.05	15.05	0.00	0.00	15.06
Worker	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	7.61	7.61	0.00	0.00	7.62
Total	**0.01**	**0.08**	**0.09**	**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**22.66**	**22.66**	**0.00**	**0.00**	**22.68**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.05	0.39	0.31	0.00		0.03	0.03		0.03	0.03	0.00	45.00	45.00	0.00	0.00	45.09
Total	**0.05**	**0.39**	**0.31**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**45.00**	**45.00**	**0.00**	**0.00**	**45.09**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.08	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	15.05	15.05	0.00	0.00	15.06
Worker	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	7.61	7.61	0.00	0.00	7.62
Total	**0.01**	**0.08**	**0.09**	**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**22.66**	**22.66**	**0.00**	**0.00**	**22.68**

3.10 Construction - Pipeline Rehabilitation 2017 - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.03	0.21	0.18	0.00		0.01	0.01		0.01	0.01	0.00	26.10	26.10	0.00	0.00	26.15
Total	**0.03**	**0.21**	**0.18**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**26.10**	**26.10**	**0.00**	**0.00**	**26.15**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.74	8.74	0.00	0.00	8.75
Worker	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	4.32	4.32	0.00	0.00	4.33
Total	**0.00**	**0.04**	**0.05**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**13.06**	**13.06**	**0.00**	**0.00**	**13.08**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.03	0.21	0.18	0.00		0.01	0.01		0.01	0.01	0.00	26.10	26.10	0.00	0.00	26.15
Total	**0.03**	**0.21**	**0.18**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**26.10**	**26.10**	**0.00**	**0.00**	**26.15**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.74	8.74	0.00	0.00	8.75
Worker	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	4.32	4.32	0.00	0.00	4.33
Total	**0.00**	**0.04**	**0.05**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**13.06**	**13.06**	**0.00**	**0.00**	**13.08**

4.0 Mobile Detail

5.0 Energy Detail

6.0 Area Detail

7.0 Water Detail

8.0 Waste Detail

9.0 Vegetation

Cure-in-Place Pipe Lining
Boiler Truck Emissions

City of South Pasadena
Cure-in-Place Pipe Lining
Boiler Truck Emissions

Boiler Rating	100	HP
	4.2	MMBtu/hr
Fuel Usage		
Daily	33.6	MMBtu/hr @ 8 hours/day
Annual 2013	2,117	MMBtu/hr @ 63 days/year
Annual 2014	5,040	MMBtu/hr @ 150 days/year
Annual 2015	5,040	MMBtu/hr @ 150 days/year
Annual 2016	5,040	MMBtu/hr @ 150 days/year
Annual 2017	2,923	MMBtu/hr @ 87 days/year

Criteria Air Pollutant Emissions

	VOC	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
Exhaust Concentration (ppmv @ 3% O2)		30				
Emission Factor (lb/MMBtu)	0.0087	0.036	0.082	0.016	0.008	0.008
Data Source	1	2	1	3	1	1
Pounds/hour	0.04	0.15	0.34	0.07	0.03	0.03
Pounds/day	**0.29**	**1.22**	**2.75**	**0.55**	**0.26**	**0.26**

Greenhouse Gas Emissions

	CO_2	CH_4	N_2O	CO_2E/CO_2
Data Source	1			
Emission Factor (lb/MMBtu)	137			
Pounds/hour	574			
Pounds/day	4,590			
2013 Pounds/year	289,180			
2013 Metric tons/year	**131.2**	0.007	0.002	**132.0**
Emission Factor (lb/MMBtu)	137			
Pounds/hour	574			
Pounds/day	4,590			
2014 Pounds/year	688,525			
2014 Metric tons/year	**312.3**	0.016	0.005	**314.3**
Emission Factor (lb/MMBtu)	137			
Pounds/hour	574			
Pounds/day	4,590			
2015 Pounds/year	688,525			
2015 Metric tons/year	**312.3**	0.016	0.005	**314.3**
Emission Factor (lb/MMBtu)	137			
Pounds/hour	574			
Pounds/day	4,590			
2016 Pounds/year	688,525			
2016 Metric tons/year	**312.3**	0.016	0.005	**314.3**
Emission Factor (lb/MMBtu)	137			
Pounds/hour	574			
Pounds/day	4,590			
2017 Pounds/year	399,344			
2017 Metric tons/year	**181.1**	0.009	0.003	**182.3**

CO_2-to-CO_2 Equivalent Factors

Data Source: 4	Units	CO_2	CH_4	N_2O	CO_2E/CO_2
Global Warming Potential		1	21	310	
Propane Combustion	kg/gal	5.74	0.0003	0.0001	1.006

Sources:

1. AP-42, Section 1.5, Table 1.4-1.
2. Based on compliance with SCAQMD Rule 1146.1.
3. AP-42, Section 1.5, Table 1.4-1, based on 15 gr/1000 gal.
4. California Climate Action Registry. 2009. *General Reporting Protocol: Reporting Entity-Wide Greenhouse Gas Emissions* , Version 3.1, Tables C.7 and C.9.

Heat Content of Propane 91.5 MMBtu/kgal

Cure-in-Place Pipe Construction
Transport Refrigeration Unit Emissions

City of South Pasadena
Cure-in-Place Pipe Construction
Transport Refrigeration Unit

Criteria Air Pollutant Emissions

	VOC	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
Hours/day	8	8	8	8	8	8
Emission Rate (lb/hr)	0.0325	0.224	0.215	0.000	0.012	0.011
Pounds/day	**0.26**	**1.79**	**1.72**	**0.00**	**0.10**	**0.09**

Greenhouse Gas Emissions

	CO_2	CH_4	N_2O	CO_2E/CO_2
2013 Hours/year	504			
Emission Rate (lb/hr)	25.9			
2013 Pounds/year	13,052			
2013 Metric tons/year	**5.92**	0.0003	0.0002	**5.97**
2014 Hours/year	1200			
Emission Rate (lb/hr)	25.9			
2014 Pounds/year	31,077			
2014 Metric tons/year	**14.10**	0.0008	0.0004	**14.22**
2015 Hours/year	1200			
Emission Rate (lb/hr)	25.9			
2015 Pounds/year	31,077			
2015 Metric tons/year	**14.10**	0.0008	0.0004	**14.22**
2016 Hours/year	1200			
Emission Rate (lb/hr)	25.9			
2016 Pounds/year	31,077			
2016 Metric tons/year	**14.10**	0.0008	0.0004	**14.22**
2017 Hours/year	696			
Emission Rate (lb/hr)	25.9			
2017 Pounds/year	18,024			
2017 Metric tons/year	**8.18**	0.0005	0.0002	**8.25**

CO_2-to-CO_2 Equivalent Factors

	Units	CO_2	CH_4	N_2O	CO_2E/CO_2
Global Warming Potential		1	21	310	
Diesel Equipment	kg/gal	10.15	0.00058	0.00026	1.009

Source: California Climate Action Registry. 2009. *General Reporting Protocol: Reporting Entity-Wide Greenhouse Gas Emissions* , Version 3.1, Tables C.6 and C.7.

OFFROAD2007 Emission Factors: Summary

	pounds/hour						
	VOC	NOx	CO	SOx	PM_{10}	$PM_{2.5}$	CO_2
50 HP Transport Refrigeration Unit	0.03	0.22	0.21	0.00	0.01	0.01	25.9

Notes:
$PM_{2.5}$ is assumed to be 92% of PM_{10}

City of South Pasadena
Cure-in-Place Pipe Construction
Transport Refrigeration Unit

OFFROAD2007 Emission Rates: Calculations

CY:	2013
Season:	Annual
AvgDays	Mon-Fri
Equipment	Transport Refrigeration Units
Fuel	D
Class	Transport Refrigeration Units
C/R	U
Pre	N
Hand	NHH
Port	NP
County	Total
Air Basin	South Coast Air Basin
Air District	Total

MaxHP	Population	**Activity**	Consumption	ROG	CO	NOX	CO2	SO2	PM	N2O	CH4
50	20,933	**84,174**	99,940	1.37	9.03	9.42	1089.94	0.01	0.51	0.00	0.12
50 HP TRU Emission Factors (pounds/hour)				**0.03**	**0.21**	**0.22**	**25.90**	**0.00**	**0.01**	**0.00**	**0.00**

APPENDIX B

Biological Resources Survey and Report

DUDEK

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VALENCIA, CALIFORNIA 91355
T 661.705.3399 F 661.705.3398

March 13, 2013 7532

Shin Furukawa
City of South Pasadena
1414 Mission Street
South Pasadena, California 91030

Subject: ***Biological Constraints Survey Report for the Proposed Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California***

Dear Mr. Furukawa:

This report documents the results of a reconnaissance-level biological survey completed for the proposed City of South Pasadena Wastewater Pipeline Improvement Project (proposed project) located in the City of South Pasadena (the City), California. An Initial Study/ Mitigated Negative Declaration (IS/ MND) is currently being prepared by Dudek (2013). The proposed project involves the rehabilitation of the City's wastewater system to comply with regulatory agency requirements. A description of the proposed project is included in the Project Location and Existing Conditions section of this report. Additional background information including the purpose for the proposed project, a detailed project description, construction methods, as well as the proposed construction schedule can be found in the IS/ MND. Figure 1 illustrates an overview of the entire proposed project components that occur within the urban and natural habitat areas.

The purpose of the biological survey was to evaluate the potential for special-status plant and wildlife species, jurisdictional waters, and other regulated resources to occur within the proposed project areas located within natural habitat. The biological survey covered 22 sewer pipeline segments that occur at least partially in natural habitat. Additionally, an assessment of 36 manholes associated with the 22 sewer pipeline segments was completed due to the necessary vegetation trimming around these existing structures during project implementation. Figure 2 illustrates the sewer pipeline segments that will require trenchless lining and open trench repair activities.

PROJECT LOCATION AND EXISTING CONDITIONS

The City is generally located between the City of Pasadena, the City of Alhambra, the City of San Marino and the City of Los Angeles in Los Angeles County, California. The City occurs entirely within the U.S. Geological Survey (USGS) 7.5-minute Los Angeles quadrangle (USGS

1994). The proposed project includes rehabilitation of approximately 148,500 linear feet of sewer pipeline with a trenchless cured-in-place-pipe (CIPP) technology and replacement of approximately 14,000 linear feet of sewer pipeline by open trench construction (Figure 1). Rehabilitated or replaced pipeline diameters range from 6–18-inches, with the majority being 8 inches in diameter. Pipeline segments between manholes can range from approximately 50–400 feet in length. The portion of the proposed project included in the biological survey consisted of individual pipeline rehabilitation locations (pipeline segments and manholes) that occur within natural habitat, plus an appropriate 100-foot survey buffer (the Study Area). Determination of the Study Area was made using GIS data provided by the City. A total of 22 pipeline segments encompassing 2,926 linear feet (0.55 mile) of sewer pipeline were included in the survey. A total of 36 manholes associated with the 22 pipeline segments were also included in the survey (Figure 2). The Study Area is situated in undeveloped, natural areas adjacent to and within residential neighborhoods, which is characterized by a mixture of landscaped and natural vegetation communities. Vegetated areas are highly fragmented by residential development and support a mix of native and exotic/invasive species. The proposed project is anticipated to be completed in four phases of work, which is scheduled to begin in August 2013.

Topography within the proposed Study Area included in the survey varies from flat ground to very steep hillsides with approximately 2:1 slopes. The majority of the survey was conducted in a hillside residential community in the southwestern portion of the City of South Pasadena. Elevation within the Study Area ranged from 600–840 feet above mean sea level (amsl). Existing land uses in the immediate vicinity of the project site include residential and commercial development along with pockets of open space. No soil data is available for the Study Area from the Natural Resources Conservation Service (NRCS); however, soils were characterized as generally silt loam during the survey.

METHODS

The reconnaissance-level biological survey was conducted within and adjacent to the proposed wastewater pipeline improvement project locations that will occur at least partially within open space and involve ground disturbance (i.e. open trenching) or are only tentatively planned to be replaced with the cured-in-place-pipe (CIPP) method. The biological survey was completed on February 28, 2013, by Dudek biologist Randall McInvale. Environmental conditions included temperatures ranging from 68–79°F, winds ranging from 0–5 mph, and 0–30% cloud cover. The survey consisted of traversing each of the 22 proposed pipeline segments and the associated 36 manholes on foot to identify potentially suitable habitat areas for special-status plant and wildlife species along with an assessment of each site for jurisdictional waters. An appropriate buffer around each proposed project location was included in the Study Area which was generally 100

feet in width but was extended or reduced based on proximity to developed areas and access routes. Where access to project locations was limited due to private property fences, a binocular survey was completed in-lieu of a walking survey.

Prior to conducting the field investigation, a review of the existing biological resources and species within the vicinity of the Study Area was conducted using the California Department of Fish and Game (CDFG) California Natural Diversity Database (CNDDB) (CDFG 2013a-c and 2013a–b), the California Native Plant Society (CNPS) *Inventory of Rare and Endangered Plants* (CNPS 2013), U.S. Fish and Wildlife Service (USFWS) data (USFWS 2012), and local tree ordinances. The purpose of this review was to determine if special-status plant and wildlife species, or regulated natural resources are known to occur within or in the vicinity of the Study Area.

Flora

The Study Area was walked thoroughly by Dudek biologist Randall McInvale. All plant species encountered during the field surveys were identified and recorded. Those species that could not be identified immediately were brought into the laboratory for further investigation. Latin and common names for plant species with a California Rare Plant Rank (formerly CNPS List) follow the *California Native Plant Society On-Line Inventory of Rare, Threatened, and Endangered Plants of California* (CNPS 2013). For plant species without a California Rare Plant Rank, Latin names follow *The Jepson Manual* (Baldwin et al. 2012) and the *Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California* (Jepson Flora Project 2013) and common names follow the United States Department of Agriculture (USDA) Natural Resources Conservation Service Plants Database (USDA 2012). Appendix A contains a complete list of plant species observed during the survey.

The Study Area was also surveyed for habitat and soil conditions that are known to support special-status plant species. Vegetation classification used in this report follows *The Manual of California Vegetation* (Sawyer et al. 2009).

Fauna

The Study Area was walked by Dudek biologist Randall McInvale, and all wildlife species, as detected during field surveys by sight, calls, tracks, scat, or other signs, were identified and recorded. In addition to species actually observed, expected wildlife usage of the Study Area was determined according to known habitat preferences of regional wildlife species and knowledge of their relative distributions in the area. No trapping or focused surveys for special-status or nocturnal species were conducted. Latin and common names for vertebrate species referred to in this report follow Stebbins

(2003) for amphibians and reptiles, Wilson and Reeder (2005) for mammals, and American Ornithologists' Union (AOU) Check-list of North American Birds (AOU 2012) for birds. Appendix A contains a complete list of wildlife species observed during the survey.

Jurisdictional Waters

Although a formal wetlands delineation following the U.S. Army Corps of Engineers 1987 Wetlands Delineation Manual (Environmental Laboratory 1987) was not conducted, the Study Area was evaluated for the potential to support jurisdictional waters regulated under the federal Clean Water Act, California Fish and Game Code, and Porter-Cologne Water Quality Act.

City of South Pasadena Tree Regulations

The City of South Pasadena has existing tree regulations covering the trimming or removal of several species including oaks (all species), coast redwood (*Sequoia sempervirens*), giant redwood (*Sequoiadendron giganteum*), dawn redwood (*Metasequoia glyptostroboides*), California walnut (*Juglans californica*), sycamore (*Platanus racemosa*), Christmas berry (*Heteromeles arbutifolia*), blue elderberry/ Mexican elderberry (*Sambucus nigra* ssp. *caerulea*), and heritage trees (as established by the South Pasadena Planning and Building Department). Additionally, trees of any variety over 12 inches in diameter proposed to be removed are regulated by the City (City of South Pasadena 2011).

RESULTS

Results of the habitat assessment and evaluation of potential jurisdictional aquatic resources at the 22 pipeline segments and the associated 36 manhole locations within the Study Area are described below. A summary of the pipeline segments including their reference name (Segment ID), length, proposed method of construction, and associated vegetation community within the Study Area is provided in Table 1.

Table 1
Study Area Summary

Segment ID	Length (feet)	Construction Method	Vegetation Community
59B59C	12	Open Trench	Developed/ Non- Non-Native Woodland (Ornamental)
59C59D	239	CIPP	Developed/ Non-Native Woodland (Ornamental)
215C215D`	208	CIPP	Non-Native Woodland (Ornamental)
207F207G	58	CIPP	Mixed Chaparral
207G207H	98	CIPP	Mixed Chaparral

Table 1
Study Area Summary

Segment ID	Length (feet)	Construction Method	Vegetation Community
204C204E	331	CIPP	Non-Native Woodland (Ornamental)
186J186K	131	CIPP	Non-Native Woodland (Ornamental)
178G165J	146	CIPP	Non-Native Woodland (Ornamental)/ Mixed Chaparral
178E178F	151	CIPP	Non-Native Woodland (Ornamental) / Mixed Chaparral
178F176E	54	CIPP	Non-Native Woodland (Ornamental) / Mixed Chaparral
176E176F	82	CIPP	Non-Native Woodland (Ornamental) / Mixed Chaparral
202A202B	114	CIPP	Non-Native Woodland (Ornamental)
202B202C	121	CIPP	Non-Native Woodland (Ornamental)
202E142A	164	CIPP	Non-Native Woodland (Ornamental)
197A197B	163	CIPP	California Walnut Woodland
164A164B	260	CIPP	Non-Native Woodland (Ornamental)
175F185G	157	Open Trench	Non-Native Woodland (Ornamental)/ Coast Live Oak Woodland
194C189B	158	CIPP	Mixed Chaparral/ Coast Live Oak Woodland
194B194C	133	CIPP	Mixed Chaparral/ Coast Live Oak Woodland
194A194B	36	CIPP	Coast Live Oak Woodland
194D194B	101	CIPP	Coast Live Oak Woodland
174J174K	9	CIPP	Non-Native Woodland (Ornamental)

Segment 59B-59C

This segment is located immediately adjacent to the sidewalk along Fremont Avenue in an area of bare soil. No vegetation is present within the proposed work site; however, mature eucalyptus (*Eucalyptus* sp.), Japanese honeysuckle (*Lonicera japonica*), and glossy privet (*Ligustrum lucidum*) are present immediately adjacent to the proposed work site. The segment is characterized as occurring in developed land with non-native woodland (ornamental) vegetation immediately surrounding the site. No potential jurisdictional waters were present within this segment.

Segment 59C-59D

The northernmost 50-feet of this segment is located in an area containing dense landscape vegetation associated with the bank of the I-110 freeway including mature eucalyptus, Japanese honeysuckle, and glossy privet. The remaining 200 feet of the segment is located in paved areas away from natural vegetation. Few landscape trees are present adjacent to the proposed work

areas. The segment is characterized as occurring in developed land and non-native woodland (ornamental) vegetation. No potential jurisdictional waters were present within this segment.

Segment 215C-215D

This segment is located on a steep landscaped hillside within fenced private property. Vegetation surrounding the proposed work site includes mature eucalyptus trees along with other ornamental species. The segment is characterized as occurring in non-native woodland (ornamental) vegetation. Access to the proposed work site was limited due to the location in fenced private property and necessitated a binocular survey from the adjacent streets. No potential jurisdictional waters were present within this segment.

Segment 207F-207G

This segment is located between private property lots that is dominated by native vegetation including Mexican elderberry (*Sambucus nigra*), lemonadeberry (*Rhus integrifolia*), white alder (*Alnus rhombifolia*), poison oak (*Toxicodendron diversilobum*), and hollyleaf redberry (*Rhamnus ilicifolia*). The segment is characterized as occurring in mixed chaparral vegetation. Native vegetation is very dense within this segment and significant vegetation clearing may be necessary to complete the lining process. No potential jurisdictional waters were present within this segment.

Segment 207G-207H

This segment is located immediately east of segment 207F-207G and occurs in the same vegetation community. Similar to segment 207F-207G, significant vegetation clearing will likely be necessary to complete the lining process. The segment is characterized as occurring in mixed chaparral vegetation. No potential jurisdictional waters were present within this segment.

Segment 204C-204E

This segment is located on a steep hillside between private property lots and dominated by non-native vegetation, mainly landscape plants. Trees present include eucalyptus, ash (*Fraxinus* sp.), Aleppo pine (*Pinus halepensis*), Mexican fan palm (*Washingtonia robusta*), and citrus trees. The segment is characterized as occurring in non-native woodland (ornamental) vegetation. Access to the proposed work site was limited due to the location in fenced private property and necessitated a binocular survey from the adjacent streets. No potential jurisdictional waters were present within this segment.

Segment 186J-186K

This segment is located between private property lots and dominated by non-native vegetation, mainly landscape trees. Trees present include Aleppo pine and Italian cypress (*Cupressus sempervirens*). Shrubs including oleander (*Nerium oleander*), and toyon (*Heteromeles arbutifolia*) are present within landscaped areas. The segment is characterized as occurring in non-native woodland (ornamental) vegetation. This segment is largely devoid of native vegetation due to the location within private property lots. No potential jurisdictional waters were present within this segment.

Segment 178G-165J

This segment is located on a steep hillside between private property lots and dominated by non-native vegetation, mainly landscape plants, including Aleppo pine, ash, eucalyptus, and redwood (*Sequoia sempervirens*). Native shrub species are also present on the hillside and include lemonadeberry and toyon. The segment is characterized as occurring in non-native woodland (ornamental)/ mixed chaparral vegetation. Access to the proposed work site was limited due to the location in fenced private property and necessitated a binocular survey from the adjacent streets. No potential jurisdictional waters were present within this segment.

Segment 178E-178F

This segment is located approximately 180-feet south of segment 178G-165J on a steep hillside between private property lots. The hillside is dominated by non-native vegetation, mainly landscape plants, including Aleppo pine, ash, eucalyptus, and redwood (*Sequoia sempervirens*). Native shrub species are also present on the hillside and include lemonadeberry and toyon. The segment is characterized as occurring in non-native woodland (ornamental)/ mixed chaparral vegetation. Access to the proposed work site was limited due to the location in fenced private property and necessitated a binocular survey from the adjacent streets. No potential jurisdictional waters were present within this segment.

Segment 178F-176E

This segment is located immediately south of segment 178E-178F on a steep hillside between private property lots. The hillside is dominated by non-native vegetation, mainly landscape plants, including Aleppo pine, ash, and eucalyptus. Native shrub species are also present on the hillside and include lemonadeberry and toyon. The segment is characterized as occurring in non-native woodland (ornamental)/ mixed chaparral vegetation. Access to the proposed work site was

limited due to the location in fenced private property and necessitated a binocular survey from the adjacent streets. No potential jurisdictional waters were present within this segment.

Segment 176E-176F

This segment is located immediately west of segment 178F-176E, beginning on a steep hillside and extending onto a gently sloped hillside within and between private property lots. The hillside is dominated by non-native vegetation, mainly landscape plants, including Aleppo pine, ash, and eucalyptus. Native shrub species are also present on the hillside and include lemonadeberry and toyon. The segment is characterized as occurring in non-native woodland (ornamental)/ mixed chaparral vegetation. Access to the proposed work site was limited due to the location in fenced private property and necessitated a binocular survey from the adjacent streets. No potential jurisdictional waters were present within this segment.

Segment 202A-202B

This sewer line segment is approximately 100-feet in length and will be replaced by the trenchless CIPP method. The segment is located within a fenced yard of a private property lot that is covered by landscape trees including eucalyptus, Chinese elm (*Ulmus parvifolia*), Aleppo pine, and Italian cypress. The segment is characterized as occurring in non-native woodland (ornamental) vegetation. This segment is largely devoid of native vegetation due to the location within a private property lot. No potential jurisdictional waters were present within this segment.

Segment 202B-202C

This segment is located partially within paved areas and partially within private property landscaping. The segment is located immediately south of segment 202A-202B and contains the same vegetation including eucalyptus, Chinese elm (*Ulmus parvifolia*), Aleppo pine, and Italian cypress. The segment is characterized as occurring in non-native woodland (ornamental) vegetation. This segment is largely devoid of native vegetation due to the location within private property lots. No potential jurisdictional waters were present within this segment.

Segment 202E-142A

This segment is located partially within paved areas and partially within private property landscaping. Vegetation within this segment is limited to eucalyptus, Chinese elm, Aleppo pine, and Mexican fan palm. The segment is characterized as occurring in non-native woodland (ornamental) vegetation. This segment is largely devoid of native vegetation due to the location within private property lots. No potential jurisdictional waters were present within this segment.

Segment 197A-197B

This segment is located entirely within open space and is in the largest natural area among the segments included in the survey. This segment and the associated open space occur immediately adjacent to private property lots. Vegetation within this segment has a high percentage of native species including southern California black walnut (*Juglans californica*), Mexican elderberry, and California coffeberry (*Rhamnus californica*). Non-native species are present in lower concentrations and include castor bean (*Ricinus communis*), tree of heaven (*Ailanthus altissima*), and oleander. The segment is characterized as occurring in California walnut woodland vegetation (Figure 3). The southern California black walnut is considered a California Rare Plant Rank (CRPR) 4.2. Trimming of these trees will require coordination with the California Department of Fish and Wildlife (CDFW). No potential jurisdictional waters were present within this segment.

Segment 164A-164B

This segment is located within private property landscaping dominated by eucalyptus and Aleppo pine. The segment is characterized as occurring in non-native woodland (ornamental) vegetation. Access to the proposed work site was limited due to the location in fenced private property and necessitated a binocular survey from the adjacent streets. This segment is largely devoid of native vegetation due to the location within private property lots. No potential jurisdictional waters were present within this segment.

Segment 175F-185G

This segment is located partially within paved areas and partially within private property landscaping. Vegetation within this segment includes coast live oak (*Quercus agrifolia*) woodland within private property landscaped areas. The oak woodland abuts additional woodland habitat that is a mix of both native (coast live oak) and non-native (eucalyptus and pine) trees. The segment is characterized as occurring in non-native woodland (ornamental)/ coast live oak woodland vegetation. Access to the proposed work site was limited due to the location in fenced private property and necessitated a binocular survey from the adjacent streets. No potential jurisdictional waters were present within this segment.

Segment 194A-194B

This segment occurs on a very steep hillside within a private property lot. Vegetation on the hillside includes coast live oak woodland mixed with both native and non-native plants such as toyon, poison oak, and oleander. The segment is characterized as occurring in coast live oak

woodland vegetation. Access to the proposed work site was limited due to the location in fenced private property and necessitated a binocular survey from the adjacent streets. No potential jurisdictional waters were present within this segment.

Segment 194D-194B

This segment occurs on a very steep hillside within a private property lot immediately east of segment 194A-194B and contains the same vegetation. The segment is characterized as occurring in coast live oak woodland vegetation. Access to the proposed work site was limited due to the location in fenced private property and necessitated a binocular survey from the adjacent streets. No potential jurisdictional waters were present within this segment.

Segment 194B-194C

This segment occurs on a very steep hillside within a private property lot immediately north of segment 194A-194B and contains similar vegetation; however, a portion of this segment occurs within annual grassland vegetation dominated by ripgut brome (*Bromus diandrus*), wild oat (*Avena fatua*), and black mustard (*Brassica nigra*). The segment is characterized as occurring in coast live oak woodland/ mixed chaparral vegetation. Access to the proposed work site was limited due to the location in fenced private property and necessitated a binocular survey from the adjacent streets. No potential jurisdictional waters were present within this segment.

Segment 194C-189B

This segment occurs partially within paved areas and partially on a very steep hillside within a private property lot immediately north of segment 194B-194C and contains similar vegetation including toyon and poison oak. The segment is characterized as occurring in coast live oak woodland/ mixed chaparral vegetation. Access to the proposed work site was limited due to the location in fenced private property and necessitated a binocular survey from the adjacent streets. No potential jurisdictional waters were present within this segment.

Segment 174J-174K

The segment occurs partially within paved areas and partially on a vegetated hillside between private property lots. Vegetated areas within this segment are dominated by non-native species including wild oat, black mustard, pampas grass (*Cortaderia selloana*), and Aleppo pine. The segment is characterized as occurring in non-native woodland (ornamental) vegetation. No potential jurisdictional waters were present within this segment.

Pipeline Segments and Manholes Located in Private Yards

An assessment of pipeline segments and manholes located in private yards was completed during the survey. A total of 69 pipeline segments comprising 9,713 linear feet (1.84-miles) and 106 manholes were determined to be located in private yards based on GIS data provided by the City. Vegetation within private yards can generally be characterized as highly modified landscapes; however, several locations within the Study Area contain native vegetation including oaks, within private yards. Additionally, several locations within the Study Area contain tree species which are regulated by the City of South Pasadena tree regulations.

Special-status Plant and Wildlife Species

Special-status plant and wildlife species that occur within the region based on a search of the resources presented in the Methods section of this report, as well as determinations of each species potential to occur within the proposed Study Areas are presented in Table 2. Due to the similar site conditions throughout the Study Area, the potential for special-status species to occur were determined on a project-wide scale.

Table 2
Special Status Species Potentially Occurring in the Project Vicinity

Species Latin Name	Species Common Name	Regulatory Status [1]	Habitat	Potential to Occur in Study Area
		Wildlife		
Accipiter cooperii	Cooper's hawk	CSC	Breeds in dense stands of live oak, riparian deciduous, or other forest habitat near water used most frequently.	Low. Suitable foraging habitat present; however, no dense woodland present within the Study Area.
Accipiter striatus	Sharp-shinned hawk	CSC	Breeds in coniferous and mixed forests. Winter migrant in the region.	Low. Suitable foraging habitat present; however, preferred nesting habitat not present within the Study Area.
Anniella pulchra pulchra	silvery legless lizard	CSC	Burrows in loose soil, especially in semi-stabilized sand dunes in areas vegetated with oak or pine-oak woodland, or chaparral; wooded stream edges, and occasionally desert-scrub.	Absent. No suitable habitat within the Study Area.

Table 2
Special Status Species Potentially Occurring in the Project Vicinity

Species Latin Name	Species Common Name	Regulatory Status [1]	Habitat	Potential to Occur in Study Area
Antrozous pallidus	Pallid bat	CSC	Grasslands, shrublands, woodlands, forests; most common in open dry habitats with rocky outcrops for roosting.	Moderate potential to forage on site. Preferred roosting habitat is not present within the Study Area.
Aspidoscelis tigris stejnegeri	Coastal whiptail	None	Variety of habitats; primarily hot and dry exposed areas with little foilage including chaparral, woodland and riparian habitats.	Moderate. Suitable habitat present within the Study Area,
Athene cunicularia	Burrowing owl	CSC	Dry, open areas with no trees and short grass.	Low. Preferred habitat not present within the Study Area; however, burrowing owl could potentially forage in the area.
Campylorhynchus brunneicapillus	Cactus wren	CSC	Arid parts of westward draining slopes in southern California. Frequents desert succulent scrub, Joshua tree, and desert wash habitats.	Low. Preferred habitat not present on site; however, cactus wren could potentially forage on site.
Carolella busckana	Busck's gallmoth	None	Coastal scrub dunes	Absent. No suitable habitat within the Study Area.
Charina trivirgata	Rosy boa	None	Desert and chaparral habitats including desert scrub flats and rocky chaparral hillsides and canyons.	Low. Some suitable habitat is present within the Study Area; however, available habitat is highly fragmented and of low quality.
Coccyzus americanus occidentalis	western yellow-billed cuckoo	FC/ SE	Valley foothill and desert riparian habitats.	Absent. No suitable habitat within the Study Area.
Cypseloides niger	black swift	CSC	Breeds in coastal bluffs and mountains. Forages over a wide range of habitats.	Low. No suitable breeding habitat within the Study Area; however, black swift could potentially forage in the area.
Empidonax traillii extimus	southwestern willow flycatcher	FE/ SE	Dense riparian habitats along streams, reservoirs, or wetlands.	Absent. No suitable habitat within the Study Area.
Emys marmorata	western pond turtle	CSC	Permanent ponds, lakes, streams, irrigation ditches or permanent pools along intermittant streams.	Absent. No suitable habitat within the Study Area.

Table 2
Special Status Species Potentially Occurring in the Project Vicinity

Species Latin Name	Species Common Name	Regulatory Status [1]	Habitat	Potential to Occur in Study Area
Eumops perotis californicus	western mastiff bat	CSC	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees and tunnels.	Moderate potential to forage on site. Preferred roosting habitat is not present.
Falco peregrinus anatum	American peregrine falcon	FP	Occurs in a wide range of habitats. Breeds mostly in woodland, forest, and coastal habitats. Year-around habitats include riparian areas, inland and coastal wetlands.	Low. No suitable breeding habitat within the Study Area; however, American peregrine falcon could potentially forage in the area.
Lasionycteris noctivagans	silver-haired bat	None	Old growth forest, maternity roosts in trees (primarily woodpecker hollows), large diameter snags 50 ft above ground; hibernates in hollow trees, under sloughing bark, in rock crevices, and occasionally in buildings, mines and caves; forages in or near coniferous or mixed deciduous forest, often following stream or river drainages	Moderate potential to forage on site. Preferred roosting habitat is not present.
Lasiurus cinereus	hoary bat	None	Forest, woodland riparian, and wetland habitats, also juniper scrub, riparian forest, and desert scrub in arid areas; roosts in tree foliage and sometimes cavities, such as woodpecker holes	Moderate potential to forage and roost on site.
Lasiurus xanthinus	western yellow bat	CSC	Valley foothill riparian, desert riparian, desert wash, and palm oasis habitats; below 2,000 ft; roost in riparian and palms	Absent. Suitable habitat not present on site.
Microtus californicus stephensi	south coast marsh vole	CSC	Tidal marshes	Absent. No suitable habitat within the Study Area.

Table 2
Special Status Species Potentially Occurring in the Project Vicinity

Species Latin Name	Species Common Name	Regulatory Status [1]	Habitat	Potential to Occur in Study Area
Neotoma lepida intermedia	San Diego desert woodrat	CSC	Coastal scrub, desert scrub, chaparral, cacti, rocky areas	Moderate. Suitable habitat present within the Study Area.
Nyctinomops femorosaccus	pocketed free-tailed bat	CSC	Pinyon-juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, palm oases; roosts in high cliffs or rock outcrops with dropoffs, caverns, buildings	Absent. Suitable habitat not present on site.
Nyctinomops macrotis	big free-tailed bat	CSC	Rocky areas; roosts in caves, holes in trees, buildings, and crevices on cliffs and rocky outcrops; forages over water	Absent. Suitable habitat not present on site.
Onychomys torridus ramona	southern grasshopper mouse	CSC	Grassland and sparse coastal scrub	Absent. Suitable habitat not present on site.
Perognathus longimembris brevinasus	Los Angeles pocket mouse	CSC	Lower elevation grassland, alluvial scrub, and coastal sage scrub.	Low. Habitat in the Study Area is highly fragmented and does not contain suitable vegetation communities for this species.
Phrynosoma blainvillii	Coast horned lizard	CSC	Inhabits open country, especially sandy areas, washes, flood plains and wind-blown deposits in a wide variety of habitats. Found chiefly below 2,000 feet in the north and 3,000 feet in the south	Moderate. Suitable habitat present within the Study Area.
Polioptila californica californica	coastal California gnatcatcher	FT/ CSC	Dense coastal sage scrub habitat in arid washes, mesas and on coastal slopes	Absent. Suitable habitat not present on site.
Rana muscosa	Sierra Madre yellow-legged frog	FE/ SC/ CSC	Lakes, ponds, meadow streams, isolated pools and open riverbanks. Rocky canyons in narrow canyons and in chaparral.	Absent. Suitable habitat not present on site.

Table 2
Special Status Species Potentially Occurring in the Project Vicinity

Species Latin Name	Species Common Name	Regulatory Status [1]	Habitat	Potential to Occur in Study Area
Riparia riparia	bank swallow	ST	Riparian, lacustrian and coastal areas with vertical banks, bluffs and cliffs with sandy soils.	Absent. Suitable habitat not present on site.
Spea hammondii	western spadefoot	CSC	Primarily in grassland but also in valley-foothill woodlands, orchards and vineyards.	Absent. Suitable habitat not present on site.
Taricha torosa	Coast Range newt	CSC	Wet forests, oak forests, chaparral, and rolling grasslands.	Absent. Suitable habitat not present on site.
Taxidea taxus	American badger	CSC	Herbaceous, shrub, and open areas of most habitats with dry, friable soils.	Low. Some suitable habitat is present within the Study Area; however, available habitat is highly fragmented and of low quality.
Thamnophis hammondii	two-striped garter snake	CSC	Highly aquatic. Associated with permanent and semi-permanent water bodies in a variety of habitats.	Absent. No suitable habitat within the Study Area.
Vireo bellii pusillus	least Bell's vireo	FE/SE	Dense riparian vegetation	Absent. No suitable habitat within the Study Area.
Plants				
Acanthoscyphus parishii var. parishii	Parish's oxytheca	None/ None CRPR 4.2	Chaparral, lower montane coniferous forest/ sandy or gravelly/ annual herb/ Jun-Sep/4,000-8,530 ft. elevation	Absent. Suitable habitat present; however the Study Area is outside of the elevation range for this species.
Arctostaphylos gabrielensis	San Gabriel manzanita	None/ None CRPR 1B.2	Chaparral(rocky)/ perennial evergreen shrub/ Mar/ 1,950-4,920 ft. elevation	Absent. Suitable habitat present; however, the Study Area is outside of the elevation range for this species.
Arenaria paludicola	marsh sandwort	FE/ SE CRPR 1B.1	Marshes and swamps(freshwater or brackish)/sandy, openings/ perennial stoloniferous herb/ May-Aug/ 10-560 ft. elevation	Absent. No suitable habitat present within the Study Area.

Table 2
Special Status Species Potentially Occurring in the Project Vicinity

Species Latin Name	Species Common Name	Regulatory Status [1]	Habitat	Potential to Occur in Study Area
Asplenium vespertinum	western spleenwort	None/ None CRPR 4.2	Chaparral, cismontane woodland, coastal scrub/ rocky/ perennial rhizomatous herb/ Feb-Jun/ 590-3,280 ft. elevation	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.
Astragalus brauntonii	Braunton's milk-vetch	FE/ None CRPR 1B.1	Chaparral, Coastal scrub, Valley and foothill grassland/recent burns or disturbed areas, usually sandstone with carbonate layers/ perennial herb/ Jan-Aug/ 15-2,100 ft. elevation	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species. Several disturbed areas present within the Study Area.
Astragalus pycnostachyus var. lanosissimus	Ventura marsh milk-vetch	FE/ SE CRPR 1B.1	Coastal dunes, coastal scrub, marshes and swamps (edges, coastal salt or brackish)/ perennial herb/ Jun-Oct/ 3-114 ft. elevation	Absent. No suitable habitat present and the Study Area is outside of the elevation range for this species.
Astragalus tener var. *titi*	coastal dunes milk-vetch	FE/ SE CRPR 1B.1	Coastal bluff scrub (sandy), Coastal dunes, Coastal prairie (mesic)/often vernally mesic areas/ annual herb/ Mar-May/ 10-160 ft. elevation	Absent. No suitable habitat present and the Study Area is outside of the elevation range for this species.
Atriplex parishii	Parish's brittlescale	None/ None CRPR 1B.1	Chenopod scrub, Playas, Vernal pools /alkaline/ annual herb/ Jun-Oct/ 80-6,230 ft. elevation	Absent. No suitable habitat present within the Study Area.
Atriplex serenana var. davidsonii	Davidson's saltscale	None/ None CRPR 1B.2	Coastal bluff scrub, coastal scrub/ alkaline/ annual herb/ Apr-Oct/ 32-656 ft. elevation	Absent. No suitable habitat present within the Study Area.
Berberis nevinii	Nevin's barberry	FE/ SE CRPR 1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub/sandy or gravelly/ perennial evergreen shrub/ Mar-Jun/ 900-2,710 ft. elevation	Absent. Suitable habitat present; however, the Study Area is outside of the elevation range for this species.
California macrophylla	round-leaved filaree	None/ None CRPR 1B.1	Cismontane woodland, Valley and foothill grassland/clay/ annual herb/ Mar-May/ 50-3,940 ft. elevation	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.

Table 2
Special Status Species Potentially Occurring in the Project Vicinity

Species Latin Name	Species Common Name	Regulatory Status [1]	Habitat	Potential to Occur in Study Area
Calochortus clavatus var. gracilis	slender mariposa lily	None/ None CRPR 1B.2	Chaparral, Coastal scrub, Valley and foothill grassland/ perennial bulbiferous herb/ Mar-Jun/ 1,180-3,280 ft. elevation	Absent. Suitable habitat present; however, the Study Area is outside of the elevation range for this species.
Calochortus plummerae	Plummer's mariposa lily	None/ None CRPR 1B.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland/granitic, rocky/ perennial bulbiferous herb/ May-Jul/ 330-5,580 ft. elevation	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.
Calochortus weedii var. intermedius	intermediate mariposa lily	None/ None CRPR 1B.2	Chaparral, Coastal scrub, Valley and foothill grassland/rocky, calcareous/ perennial bulbiferous herb/ May-Jul/ 340-2,805 ft. elevation	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.
Calystegia sepium ssp. *binghamiae*	Santa Barbara morning-glory	None/ None CRPR 1A	Coastal marshes and swamps/ rhizomatous herb/ Apr-May/ 0-70 ft. elevation	Absent. No suitable habitat present within the Study Area.
Camissoniopsis lewisii	Lewis' evening-primrose	None/ None CRPR 3	Coastal bluff scrub, cismontane woodland, coastal dunes, coastal scrub, valley and foothill grassland/ sandy or clay/ annual herb/ Mar-Jun/ 0-980 ft. elevation	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.
Centromadia parryi ssp. australis	southern tarplant	None/ None CRPR 1B.1	Marshes and swamps(margins), Valley and foothill grassland(vernally mesic), Vernal pools/ annual herb/ May-Nov/ 0-1,400 ft. elevation	Absent. No suitable habitat present within the Study Area.
Chorizanthe parryi var. fernandina	San Fernando Valley spineflower	FC/ SE CRPR 1B.1	Coastal scrub(sandy), Valley and foothill grassland/ annual herb/ Apr-Jul/ 490-4,000 ft. elevation	Absent. No suitable habitat present within the Study Area.

Table 2
Special Status Species Potentially Occurring in the Project Vicinity

Species Latin Name	Species Common Name	Regulatory Status [1]	Habitat	Potential to Occur in Study Area
Chorizanthe parryi var. parryi	Parry's spineflower	None/ None CRPR 1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland/sandy or rocky, openings/ annual herb/ Apr-Jun/ 900-4,000 ft. elevation	Absent. No suitable habitat present within the Study Area.
Cladium californicum	California sawgrass	None/ None CRPR 2.2	Meadows and seeps, Marshes and swamps, Alkaline or Freshwater/ rhizomatous herb/ Jun-Sep/ 200-2,000 ft. elevation	Absent. No suitable habitat present within the Study Area.
Clinopodium mimuloides	monkey-flower savory	None/ None CRPR 4.2	Chaparral, north coast coniferous forest/ streambanks, mesic/ perennial herb/ Jun-Oct/ 1,000-5,905 ft. elevation	Absent. No suitable habitat present within the Study Area.
Cuscuta obtusiflora var. glandulosa	Peruvian dodder	None/ None CRPR 2.2	Marshes and swamps (freshwater)/ annual vine/ Jul-Oct/ 50-920 ft. elevation	Absent. No suitable habitat present within the Study Area.
Dodecahema leptoceras	slender-horned spineflower	FE/ SE CRPR 1B.1	Chaparral, Cismontane woodland, Coastal scrub(alluvial fan)/sandy/ annual herb/ Apr-Jun/ 660-2,490 ft. elevation	Absent. No suitable habitat present within the Study Area.
Dudleya multicaulis	many-stemmed dudleya	None/ None CRPR 1B.2	Chaparral, Coastal scrub, Valley and foothill grassland/often clay/ perennial herb/ Apr-Jul/ 50-2,590 ft. elevation	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.
Galium angustifolium ssp. gabrielense	San Antonio Canyon bedstraw	None/ None CRPR 4.3	Chaparral, lower montane coniferous forest/ granitic, sandy or rocky/ perennial herb/ Apr-Aug/ 3,937-8,694 ft. elevation	Absent. Suitable habitat present; however, the Study Area is outside of the elevation range for this species.
Galium grande	San Gabriel bedstraw	None/ None CRPR 1B.2	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest/ perennial deciduous shrub/ Jan-Jul/ 1,390-4,920 ft. elevation	Absent. Suitable habitat present; however, the Study Area is outside of the elevation range for this species.

Table 2
Special Status Species Potentially Occurring in the Project Vicinity

Species Latin Name	Species Common Name	Regulatory Status [1]	Habitat	Potential to Occur in Study Area
Galium johnstonii	Johnston's bedstraw	None/ None CRPR 4.3	Chaparral, lower montane coniferous forest, pinyon and juniper woodland, riparian woodland/ perennial herb/ Jun-Jul/ 4,000-7,545 ft. elevation	Absent. Suitable habitat present; however, the Study Area is outside of the elevation range for this species.
Helianthus nuttallii ssp. *parishii*	Los Angeles sunflower	None/ None CRPR 1A	Marshes and swamps (coastal salt and freshwater)/rhizomatous herb/ Aug-Oct/ 30-5,495 ft. elevation	Absent. No suitable habitat present within the Study Area. Species presumed extinct in California.
Heuchera caespitosa	urn-flowered alumroot	None/ None CRPR 4.3	Cismontane woodland, lower montane coniferous forest, riparian forest (montane), upper montane coniferous forest/ rocky/ perennial rhizomatous herb/ May-Aug/ 3,789-8,694 ft. elevation	Absent. Suitable habitat present; however, the Study Area is outside of the elevation range for this species.
Hordeum intercedens	vernal barley	None/ None CRPR 3.2	Coastal dunes, coastal scrub, valley and foothill grasslands (saline flats and depressions), vernal pools/ annual herb/ Mar-Jun/ 16-3,280 ft. elevation	Absent. No suitable habitat present within the Study Area.
Horkelia cuneata ssp. puberula	mesa horkelia	None/ None CRPR 1B.1	Chaparral(maritime), Cismontane woodland, Coastal scrub/sandy or gravelly/ perennial herb Feb-Jul(Sep)/ 230-2,660 ft. elevation	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.
Juglans californica	Southern California black walnut	None/ None CRPR 4.2	Chaparral, cismontane woodland, coastal scrub/ alluvial/ perennial deciduous tree/ Mar-Aug/ 165-2,950 ft. elevation	Present. Species identified in Segment 197A-197B. Species is also present at various locations throughout the survey area.
Lasthenia glabrata ssp. *coulteri*	Coulter's goldfields	None/ None CRPR 1B.1	Marshes and swamps (coastal salt)/ Playas/ Vernal pools/ annual herb/ Feb-Jun/ 3-4,000	Absent. No suitable habitat present within the Study Area.

Table 2
Special Status Species Potentially Occurring in the Project Vicinity

Species Latin Name	Species Common Name	Regulatory Status [1]	Habitat	Potential to Occur in Study Area
Lepechinia fragrans	fragrant pitcher sage	None/ None CRPR 4.2	Chaparral/ perennial shrub/ Mar-Oct/ 65-4,300 ft. elevation	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.
Lepidium virginicum var. robinsonii	Robinson's pepper-grass	None/ None CRPR 1B.2	Chaparral, Coastal scrub/ annual herb/ Jan-Jul/ 3-2,900	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.
Lilium humboldtii ssp. ocellatum	ocellated Humboldt lily	None/ None CRPR 4.2	Chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, riparian woodland/ openings/ perennial bulbiferous herb/ Mar-Aug/ 98-5,905 ft. elevation.	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.
Linanthus concinnus	San Gabriel linanthus	None/ None CRPR 1B.2	Chaparral, Lower montane coniferous forest, Upper montane coniferous forest/rocky, openings/ annual herb/ Apr-Jul/ 4,990-9,190	Absent. Suitable habitat present; however, the Study Area is outside of the elevation range for this species.
Linanthus orcuttii	Orcutt's linanthus	None/ None CRPR 1B.3	Chaparral, lower montane coniferous forest, pinyon and juniper woodland/ openings/ annual herb/ May-Jun/ 3,000-7,037 ft. elevation	Absent. Suitable habitat present; however, the Study Area is outside of the elevation range for this species.
Malacothamnus davidsonii	Davidson's bush-mallow	None/ None CRPR 1B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland/ perennial deciduous shrub/ Jun-Jan/ 610-2,805	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.
Mimulus johnstonii	Johnston's monkeyflower	None/ None CRPR 4.3	Lower montane coniferous forest (scree, disturbed areas, rocky gravelly, roadsides)/ annual herb/ May-Aug/ 3,200-9,580 ft. elevation	Absent. Suitable habitat present; however, the Study Area is outside of the elevation range for this species.

Table 2
Special Status Species Potentially Occurring in the Project Vicinity

Species Latin Name	Species Common Name	Regulatory Status [1]	Habitat	Potential to Occur in Study Area
Muhlenbergia californica	California muhly	None/ None CRPR 4.3	Chaparral, Coastal scrub, Lower montane coniferous forest, Meadows and seeps/mesic, seeps and streambanks/ perennial rhizomatous herb/ Jun-Sep/ 330-6,560	Absent. Suitable vegetation present; however, no mesic habitat present within the Study Area.
Nasturtium gambelii	Gambel's water cress	FE/SE CRPR 1B.1	Marshes and swamps(freshwater or brackish)/ perennial rhizomatous herb/ Apr-Oct/ 20-1,080	Absent. No suitable habitat present within the Study Area.
Navarretia fossalis	spreading navarretia	FT/ None CRPR 1B.1	Chenopod scrub, Marshes and swamps(assorted shallow freshwater), Playas, Vernal pools/ annual herb/ Apr-Jun/ 100-4,265	Absent. No suitable habitat present within the Study Area.
Navarretia prostrata	prostrate vernal pool navarretia	None/ None CRPR 1B.1	Coastal scrub, Meadows and seeps, Valley and foothill grassland(alkaline), Vernal pools/mesic/ annual herb/ Apr-Jul/ 50-2,300	Absent. No suitable habitat present within the Study Area.
Orcuttia californica	California Orcutt grass	FE/SE CRPR 1B.1	Vernal pools/ annual herb/ Apr-Aug/ 50-2,165	Absent. No suitable habitat present within the Study Area.
Phacelia hubbyi	Hubby's phacelia	None/ None CRPR 4.2	Chaparral, coastal scrub, valley and foothill grassland/ gravelly, rocky, talus/ annual herb/ Apr-Jun/ 0-3,280 ft. elevation	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.
Phacelia stellaris	Brand's star phacelia	FC/ None CRPR 1B.1	Coastal dunes, Coastal scrub/ annual herb/ Mar-Jun/ 3-1,310	Absent. No suitable habitat present within the Study Area.
Pseudognaphalium leucocephalum	white rabbit-tobacco	None/ None CRPR 2.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland/sandy, gravelly/ perennial herb/ (Jul)Aug-Nov(Dec)/ 0-6,890	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.

Table 2
Special Status Species Potentially Occurring in the Project Vicinity

Species Latin Name	Species Common Name	Regulatory Status [1]	Habitat	Potential to Occur in Study Area
Quercus engelmanii	Engelman's oak	None/ None/ CRPR 4.2	Chaparral, cismontane woodland, riparian woodland, valley and foothill grassland/ pe rennial deciduous tree/ Mar-Jun/ 164-4,265 ft. elevation	Moderate. Suitable habitat present and the Study Area is within the elevation range for this species.
Ribes divaricatum var. *parishii*	Parish's gooseberry	None/ None CRPR 1A	Riparian woodland/ deciduous shrub/ Feb-Apr/ 210-980	Low. Suitable habitat present and the Study Area is within the elevation range for this species; however, species is presumed extinct in California.
Rupertia rigida	Parish's rupertia	None/ None CRPR 4.3	Chaparral, cismontane woodland, lower montane coniferous forest, meadows and seeps, pebble (pavement) plain, valley and foothill grassland/ perennial herb/ Jun-Aug/ 2,296-8,200 ft. elevation	Absent. Suitable habitat present; however, the Study Area is outside of the elevation range for this species.
Scutellaria bolanderi ssp. *austromontana*	southern mountains skullcap	None/ None CRPR 1B.2	Chaparral, Cismontane woodland, Lower montane coniferous forest/mesic/ rhizomatous herb/ Jun-Aug/ 1,390-6,560	Absent. Suitable vegetation present; however, no mesic habitat present within the Study Area.
Senecio astephanus	San Gabriel ragwort	None/ None CRPR 4.3	Coastal bluff scrub, chaparral/ rocky slopes/ perennial herb/ May-Jul/ 1,312-4,921 ft. elevation	Absent. Suitable habitat present; however, the Study Area is outside of the elevation range for this species.
Symphyotrichum defoliatum	San Bernardino aster	None/ None CRPR 1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Meadows and seeps, Marshes and swamps, Valley and foothill grassland(vernally mesic)/near ditches, streams, springs/ perennial rhizomatous herb/ Jul-Nov/ 10-6,690	Absent. Suitable vegetation present; however, no mesic habitat present within the Study Area.

Table 2
Special Status Species Potentially Occurring in the Project Vicinity

Species Latin Name	Species Common Name	Regulatory Status [1]	Habitat	Potential to Occur in Study Area
Symphyotrichum greatae	Greata's aster	None/ None CRPR 1B.3	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Riparian woodland/mesic/ perennial rhizomatous herb/ Jun-Oct/ 980-6,590	Absent. Suitable vegetation present; however, no mesic habitat present within the Study Area.
Thelypteris puberula var. sonorensis	Sonoran maiden fern	None/ None CRPR 2.2	Meadows and seeps(seeps and streams)/ perennial rhizomatous herb/ Jan-Sep/ 160-2,000	Absent. No suitable habitat present within the Study Area.

[1] Regulatory Status (CDFW 2013b; CNPS 2013)
State Designations
SE: Species listed as endangered by the California Fish and Wildlife Commission.
ST: Species listed as threatened by the California Fish and Wildlife Commission.

SC: Species is a candidate to be listed as threatened or endangered by the California Fish and Wildlife Commission.
CSC: Species of Special Concern Species; considered by CDFW as possibly facing extinction in California due to declining populations or habitat.
FP: Fully protected in California as designated by CDFW.
WL: CDFW-Watch List.
CRPR
1A: Plants Presumed Extinct in California
1B: Plants Rare, Threatened, or Endangered in California and Elsewhere
2: Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere
3: Plants About Which We Need More Information–A Review List
4: Plants of Limited Distribution–A Watch List
Threat Ranks
0.1-Seriously threatened in California (high degree/immediacy of threat)
0.2-Fairly threatened in California (moderate degree/immediacy of threat)
0.3-Not very threatened in California (low degree/immediacy of threats or no current threats known)
Federal Designations
FE: Species listed as endangered by the USFWS.
FT: Species listed as threatened by the USFWS.

DISCUSSION

The proposed project activities would occur primarily in developed areas and as a result the potential for direct or indirect impacts to special-status species on a project-wide scale is low. Localized project activities, including vegetation trimming and trenching at locations included in the Study Area and in private yards, have the potential to impact special-status species and therefore, additional actions are recommended to comply with the state and federal endangered species acts and the California Fish and Wildlife Code.

Suitable habitat for 33 special-status plant and wildlife species is present within the Study Area. Potential for these 33 species to occur was determined to be low, moderate, high, or present (i.e. identified during the survey) depending on individual habitat requirements and habitat present within the Study Area. A total of 10 special-status species have low potential to occur within the Study Area including Cooper's hawk (*Accipiter cooperii*), sharp-shinned hawk (*Accipiter striatus*), burrowing owl (*Athene cunicularia*), cactus wren (*Campylorhynchus brunneicapillus*), Rosy boa (*Charina trivirgata*), black swift (*Cypseloides niger*), American peregrine falcon (*Falco peregrinus anatum*), American badger (*Taxidea taxus*), Los Angeles pocket mouse (*Perognathus longimembris brevinasus*), and Parish's gooseberry (*Ribes divaricatum* var. *parishii*). A total of 22 special-status species have moderate potential to occur within the Study Area including pallid bat (*Antrozous pallidus*), coastal whiptail (*Aspidoscelis tigris stejnegeri*), western mastiff bat (*Eumops perotis californicus*), silver-haired bat (*Lasionycteris noctivagans*), hoary bat (*Lasiurus cinereus*), San Diego desert woodrat (*Neotoma lepida intermedia*), coast horned lizard (*Phrynosoma blainvillii*), western spleenwort (*Asplenium vespertinum*), Braunton's milk-vetch (*Astragalus brauntonii*), round-leaved filaree (*California macrophylla*), Plummer's mariposa lily (*Calochortus plummerae*), intermediate mariposa lily (*Calochortus weedii var. intermedius*), Lewis' evening-primrose (*Camissoniopsis lewisii*), many-stemmed dudleya (*Dudleya multicaulis*), mesa horkelia (*Horkelia cuneata ssp. puberula*), fragrant pitcher sage (*Lepechinia fragrans*), Robinson's pepper-grass (*Lepidium virginicum var. robinsonii*), ocellated Humboldt lily (*Lilium humboldtii ssp. ocellatum*), Davidson's bush-mallow (*Malacothamnus davidsonii*), Hubby's phacelia (*Phacelia hubbyi*), white rabbit-tobacco (*Pseudognaphalium leucocephalum*), and Engelman's oak (*Quercus engelmanii*). One special-status species, southern California black walnut (*Juglans californica*), was identified within segment 197A-197B during the survey. No special-status species were determined to have high potential to occur within the Study Area based on available habitat.

Additional actions that are recommended to ensure potential impacts to special-status species are avoided or minimized during project implementation, and maintain compliance with established laws and regulations include:

- Conduct a pre-construction biological survey for special-status species determined to have potential to occur in suitable habitat within the Study Area no more than 72-hours prior to the start of construction activities.
- Conduct tree and vegetation trimming/clearing during the non-nesting season for birds, which generally extends from September through February. If tree and vegetation trimming/ clearing needs to occur from March through August, then a pre-construction nesting bird survey is recommended to be completed by a qualified biological monitor no

more than 72-hours prior to the start of work. If breeding or nesting birds are found within or immediately adjacent to work areas then additional coordination with the USFWS and/or the CDFW may be required to comply with the federal Migratory Bird Treaty Act of 1918 (16U.S.C. 703-711) and California Fish and Game Code.

- Conduct biological surveys at the segments indicated in Table 3 for potentially occurring special-status plant species during spring-fall to ensure avoidance during construction. Surveys should be conducted in suitable habitat during the appropriate blooming period for each plant species, which are as follows: western spleenwort (February-June), Braunton's milk-vetch (January-August), round-leaved filaree (March-May), Plummer's mariposa lily (May-July), intermediate mariposa lily (May-July), Lewis' evening-primrose (March-June), many-stemmed dudleya (April-July), mesa horkelia (February-July), fragrant pitcher sage (March-October), Robinson's pepper-grass (January-July), ocellated Humboldt lily (March-August), Davidson's bush-mallow (June-January), Hubby's phacelia (April-June), white rabbit-tobacco (August-November), Parish's gooseberry (February-April), and Engelman's oak (March-June). Survey needs are presented in Table 3 below.

Table 3
Rare Plant Surveys

Segment ID	Species included in Rare Plant Survey
59B59C	None
59C59D	None
215C215D`	None
207F207G	western spleenwort, Braunton's milk-vetch, Plummer's mariposa lily, intermediate mariposa lily, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco, Parish's gooseberry
207G207H	western spleenwort, Braunton's milk-vetch, Plummer's mariposa lily, intermediate mariposa lily, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia,

	white rabbit-tobacco, Parish's gooseberry
204C204E	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco
186J186K	None
178G165J	western spleenwort, Braunton's milk-vetch, round-leaved filaree, Plummer's mariposa lily, intermediate mariposa lily, Lewis' evening-primrose, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco
178E178F	western spleenwort, Braunton's milk-vetch, round-leaved filaree, Plummer's mariposa lily, intermediate mariposa lily, Lewis' evening-primrose, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco
178F176E	western spleenwort, Braunton's milk-vetch, round-leaved filaree, Plummer's mariposa lily, intermediate mariposa lily, Lewis' evening-primrose, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco
176E176F	western spleenwort, Braunton's milk-vetch, round-leaved filaree, Plummer's mariposa lily, intermediate mariposa lily, Lewis' evening-primrose, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco
202A202B	western spleenwort, round-leaved filaree, Plummer's mariposa lily, mesa horkelia , ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco
202B202C	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's, white rabbit-tobacco bush mallow

202E142A	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco
197A197B	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco
164A164B	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco
175F185G	None
194C189B	western spleenwort, Braunton's milk-vetch, round-leaved filaree, Plummer's mariposa lily, intermediate mariposa lily, Lewis' evening-primrose, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco, Engelman's oak
194B194C	western spleenwort, Braunton's milk-vetch, round-leaved filaree, Plummer's mariposa lily, intermediate mariposa lily, Lewis' evening-primrose, many-stemmed dudleya, mesa horkelia, fragrant pitcher sage, Robinson's pepper grass, ocellated Humboldt lily, Davidson's bush mallow, Hubby's phacelia, white rabbit-tobacco, Engelman's oak
194A194B	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco, Engelman's oak
194D194B	western spleenwort, round-leaved filaree, Plummer's mariposa lily, Lewis' evening-primrose, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco, Engelman's oak
174J174K	western spleenwort, round-leaved filaree, Plummer's mariposa lily, mesa horkelia, ocellated Humboldt lily, Davidson's bush mallow, white rabbit-tobacco

- Coordinate with CDFW if southern California black walnut trees present within the Study Area are determined to require trimming or removal to facilitate the proposed project.
- Obtain the appropriate permits from the City of South Pasadena for tree trimming or removal regulated under the City tree regulations.
- Limit motor vehicle access to maintained roads and designated routes, where possible.

Please feel free to contact me at 661.705.8614 with questions or if you require additional information.

Sincerely,

Randall McInvale
Biologist

Att: Figures 1-3
Appendix A, Species List

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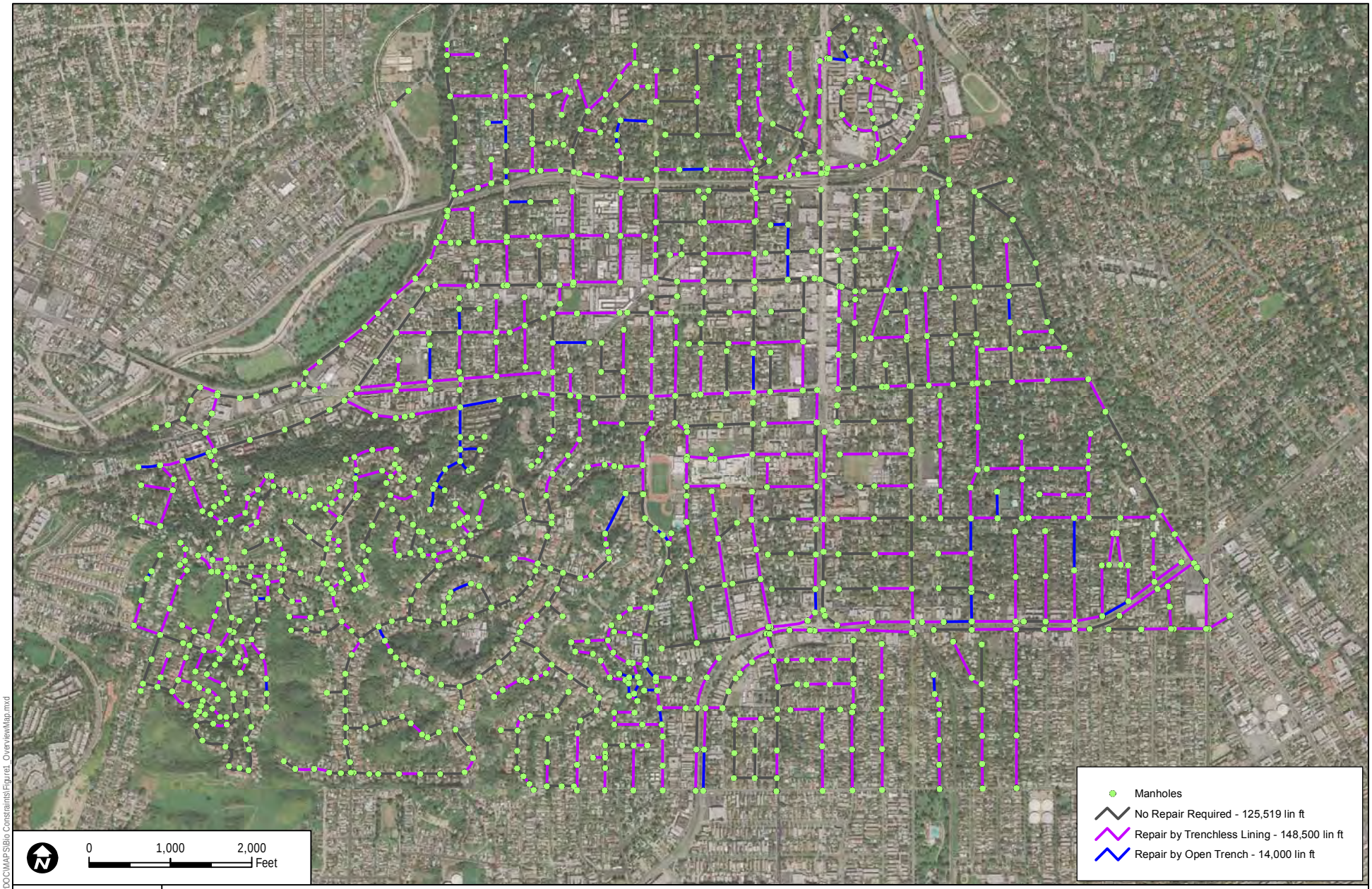


DUDEK

7532-02

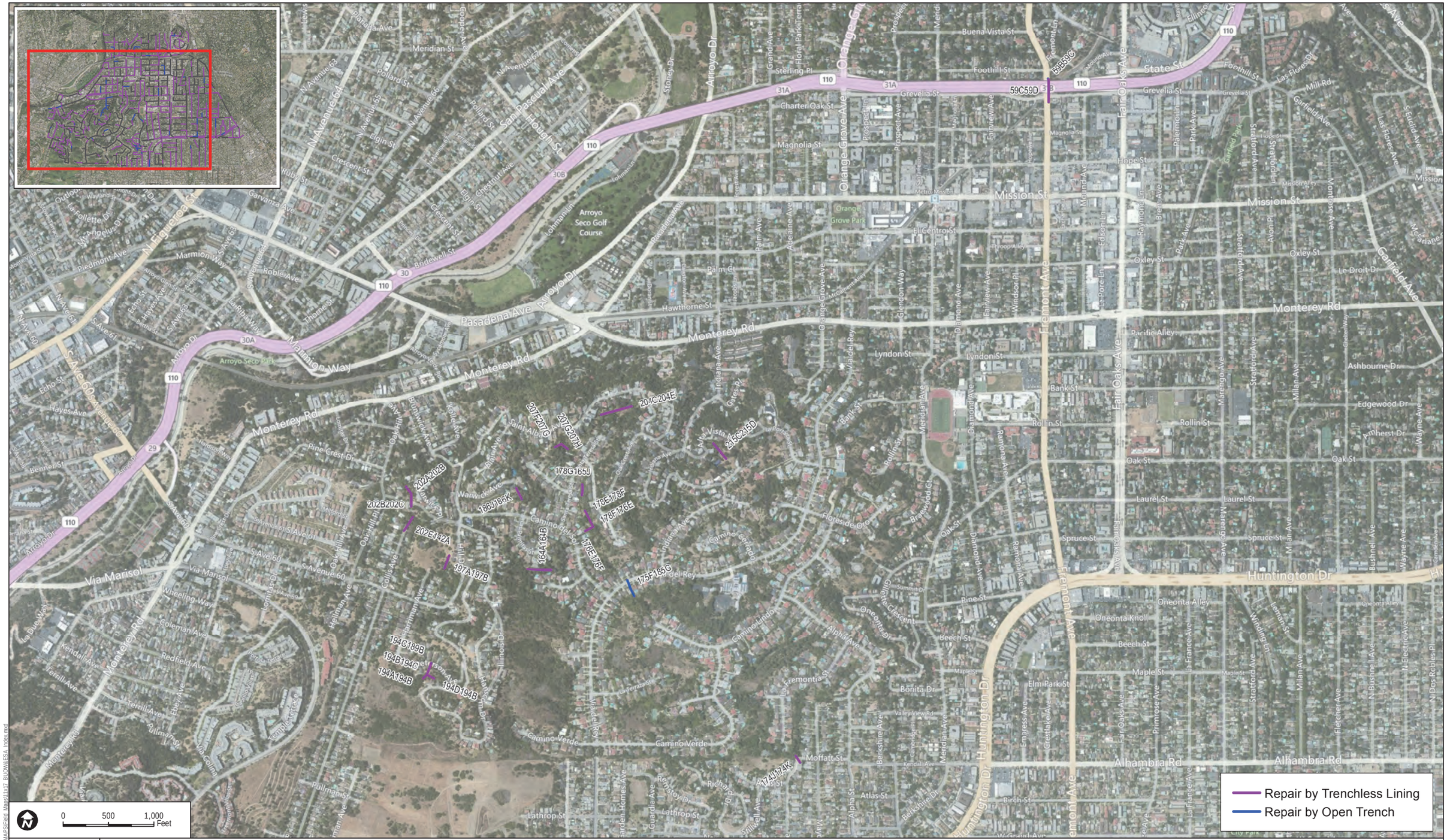
SOURCE: Digital Globe 2010, City of Pasadena 2012

FIGURE 1

Project Area Overview Map

BIOLOGICAL CONSTRAINTS SURVEY REPORT FOR THE CITY OF SOUTH PASADENA WASTEWATER PIPELINE IMPROVEMENT PROJECT

Path: Z:\Projects\7532\02\MAPDOC\MAPS\Bio_Constraints\Figure1_OverviewMap.mxd



DUDEK

7532-2

SOURCE: Bing, City of Pasadena 2012

FIGURE 2

Study Area Overview Map

BIOLOGICAL CONSTRAINTS SURVEY REPORT FOR THE CITY OF SOUTH PASADENA WASTEWATER PIPELINE IMPROVEMENT PROJECT

DUDEK

7532-2

SOURCE: Bing; City of South Pasadena 2012; County of Los Angeles 2011

FIGURE 3

Protected Resources in Study Area

BIOLOGICAL CONSTRAINTS SURVEY REPORT FOR THE CITY OF SOUTH PASADENA WASTEWATER PIPELINE IMPROVEMENT PROJECT

Path: Z:\Projects\7532\02\MAPDOC\MAPS\Bio_Constraints\Figure3_Resources.mxd

APPENDIX A

Plant and Wildlife Species Observed on Site

APPENDIX A
Plant and Wildlife Species Observed on Site

VASCULAR PLANT SPECIES

ANGIOSPERMS (DICOTS)

***ADOXACEAE* – MUSKROOT FAMILY**

Sambucus nigra – Mexican elderberry (blue elderberry)

***ANACARDIACEAE* – SUMAC OR CASHEW FAMILY**

Rhus integrifolia – lemonade berry

Toxicodendron diversilobum – poison oak

***APOCYNACEAE* – DOGBANE FAMILY**

* *Nerium oleander* – common oleander

***ASTERACEAE* – SUNFLOWER FAMILY**

* *Bidens pilosa* – hairy beggarticks

* *Sonchus asper* – prickly sow thistle

* *Silybum marianum* – milk thistle

***BETULACEAE* – BIRCH FAMILY**

Alnus rhombifolia – white alder

***BIGNONIACEAE* – TRUMPET CREEPER FAMILY**

* *Jacaranda mimosifolia* – jacaranda

***BRASSICACEAE* – MUSTARD FAMILY**

* *Brassica nigra* – black mustard

* *Raphanus sativus* – radish

***CAPRIFOLIACEAE* – HONEYSUCKLE FAMILY**

* *Lonicera japonica* – Japanese honeysuckle

***CUCURBITACEAE* – GOURD FAMILY**

Marah fabacea – california man-root

***CRASSULACEAE* – STONECROP FAMILY**

* *Crassula ovata* – jade plant

***EUPHORBIACEAE* – SPURGE FAMILY**

* *Ricinus communis* – castor bean

***FABACEAE* – LEGUME FAMILY**

* *Robinia pseudoacacia* – black locust

***FAGACEAE* – OAK FAMILY**

Quercus agrifolia – coast live oak

***JUGLANDACAE* – WALNUT FAMILY**

Juglans californica – southern California black walnut

***MYRTACEAE* – MYRTLE FAMILY**

* *Eucalyptus globulus* – blue gum

***OLACEAE* – OLIVE FAMILY**

Fraxinus latifolia – Oregon ash

* *Ligustrum lucidum* – glossy privet

***RHAMNACEAE* – BUCKTHORN FAMILY**

Rhamnus califórnica – coffeberry

Rhamnus ilicifolia – hollyleaf redberry

***ROSACEAE* – ROSE FAMILY**

Heteromeles arbutifolia – toyon (christmas berry)

***SIMAROUBACEAE* – QUASSIA OR SIMAROUBA FAMILY**

* *Ailanthus altissima* – tree of heaven

***ULMACEAE* – ELM FAMILY**

* *Ulmus parvifolia* – Chinese elm

***VERBENACEAE* – VERVAIN FAMILY**

* *Verbena cámara* – verbena

GYMNOSPERMS

***CUPRESSACEAE* –FAMILY**

* *Cupressus sempervirens* – Italian cypress

Sequoia sempervirens – coast redwood

***PINACEAE* – PINE FAMILY**

* *Pinus halepensis* – aleppo pine

MONOCOTS

***ARECACEAE* – PALM FAMILY**

* *Washingtonia robusta* – Mexican fan palm

***POACEAE* – GRASS FAMILY**

* *Avena barbata* – slender wild oat
* *Avena fatua* – wild oat
* *Bromus diandrus* – ripgut
* *Cortaderia selloana* – pampas grass

*-denotes non-native species

WILDLIFE SPECIES

MAMMALS

***CANIDAE* – WOLVES AND FOXES**

Canis latrans – coyote

BIRDS

***EMBERIZIDAE* – EMBERIZIDS**

Zonotrichia leucophrys – white-crowned sparrow

***FRINGILLIDAE* – FRINGILLINE AND CARDUELINE FINCHES**

Carpodacus mexicanus – house finch

***MIMIDAE* – MOCKINGBIRDS AND THRASHERS**

Mimus polyglottos – northern mockingbird

***PARULIDAE* – WOOD-WARBLERS**

Dendroica coronata – yellow-rumped warbler

***PASSERIDAE* – OLD WORLD SPARROWS**

Passer domesticus – house sparrow

***PICIDAE* – WOODPECKERS AND ALLIES**

Colaptes auratus – northern flicker
Picoides nuttallii – Nuttall's woodpecker

***TYRANNIDAE* – TYRANT FLYCATCHERS**

Saynoris nigicans – black phoebe

* signifies introduced (non-native) species

APPENDIX C

Cultural Resources Constraints Report

DUDEK

MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 760.942.5147 T 800.450.1818 F 760.632.0164

March 14, 2013 7532

Shin Furukawa
City of South Pasadena
1414 Mission Street
South Pasadena, California 91030

Subject: ***Cultural Resources Constraints Report for the Proposed Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California***

Dear Mr. Furukawa:

This report documents the results of a reconnaissance-level cultural resources constraints report completed for the proposed City of South Pasadena Wastewater Pipeline Improvement Project (proposed project) located in the City of South Pasadena (the City), California. An Initial Study/ Mitigated Negative Declaration (IS/ MND) is currently being prepared by Dudek (2013). The proposed project involves the rehabilitation of the City's wastewater system to comply with regulatory agency requirements. A description of the proposed project is included in the Project Location and Description section of this report. Additional background information including the purpose for the proposed project, a detailed project description, construction methods, as well as the proposed construction schedule can be found in the IS/ MND.

The purpose of the cultural resource reconnaissance review was to assess the potential for the presence of cultural resources within the project area. This study entailed a records search encompassing the project area and a ¼-mile radius around the project area, and a non-systematic reconnaissance survey of selected portions of the project area where trenching activities are more likely to occur in undeveloped or minimally developed areas. Based on the records search and reconnaissance survey results, the project as currently designed is unlikely to encounter any significant cultural resources.

PROJECT LOCATION AND DESCRIPTIONS

The City is generally located between the City of Pasadena, the City of Alhambra, the City of San Marino and the City of Los Angeles in Los Angeles County, California. The City occurs entirely within the U.S. Geological Survey (USGS) 7.5-minute Los Angeles quadrangle (USGS 1994). The proposed project includes rehabilitation of approximately 148,500 linear feet of sewer pipeline with a trenchless cured-in-place-pipe (CIPP) technology and replacement of

approximately 14,000 linear feet of sewer pipeline by open trench construction (Figure 1). Rehabilitated or replaced pipeline diameters range from 6–18 inches, with the majority being 8 inches in diameter at an average depth of 5 to 8 feet below surface. Pipeline segments between manholes can range from approximately 50–400 feet in length. The proposed project is anticipated to be completed in four phases of work, which is scheduled to begin in August 2013. The portion of the proposed project included in the cultural resource survey included only the segments of pipeline where trenching activities appear likely to occur in undeveloped or minimally developed areas. Determination of the survey area was made using GIS data provided by the City and a review of aerial photographs. A total of five segments of sewer pipeline were included in the pedestrian survey (Figure 2) due to the open trench nature of work in locations less likely to be previously disturbed. The survey area is generally situated on a series of steep loped ridges and canyons, adjacent to and within residential neighborhoods. This are is characterized by a mixture of landscaped and natural vegetation communities.

METHODS

A records search was performed for the project area and a ¼-mile radius around the project at the South Central Coast Information Center (SCCIC) at California State University, Fullerton. The records search also included a search of the California Points of Historical Interest (PHI), the California Historical Landmarks (CHL), the National Register of Historic Places (NRHP), and the California State Historic Resources Inventory (HRI) listings. The records search results were reviewed to determine the likelihood of unknown archaeological resources in the project area.

The non-systematic reconnaissance-level cultural resource survey was conducted within and adjacent to the proposed wastewater pipeline improvement project locations that will occur at least partially within open space and involve ground disturbance (i.e. open trenching). Segments of pipeline which are proposed for CIPP repairs were not surveyed at this time as they pose little to no risk of ground disturbance. The reconnaissance survey was completed in March 2013, by Dudek archaeologist Brad Comeau. The survey consisted of visiting each of the five proposed pipeline segments and the associated manholes on foot to identify potentially undisturbed land which may contain cultural resources. Where access to project locations was limited due to private property fences, a visual inspection and photographs were completed in-lieu of a walking survey.

REGULATORY BACKGROUND

CEQA Guidelines Section 15064.5

CEQA Guidelines Section 15064.5 states that a cultural resource (i.e., a prehistoric or historic period archaeological site or historic architectural structure or feature) is considered "historically significant" under CEQA if the resource meets the criteria for listing in the California Register of Historical Resources (CRHR):

- Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage; or
- Is associated with the lives of persons important in our past; or
- Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
- Has yielded, or may be likely to yield, information important in prehistory or history.

RESULTS

Previous Investigations

Forty-four previous studies have been performed within the record search area, including 24 which encompass at least a portion of the project area. An additional 24 investigations which have been performed in the general area, but are not mapped due to insufficient locational information. Within the project area, the majority of the previous studies have been resource specific studies, such as historic structure assessments. Only four studies have been performed within the southwestern portion of the project area which is the focus of the current study. Two of these studies addressed a single water tank and one addressed a single house. The fourth study encompassed a large area along both the eastern and western sides of this portion of the project area, but only minimally addressed the current study area. As such, the vast majority of the southwestern portion of the project area has not yet been surveyed. The records search results are included in Appendix A.

Historic Resources

The records search identified one archaeological site and 273 above-ground historic resources within the record search area. Of these, 98 of the above-ground historic resources are in the project area whilst the remaining historic resources and the archaeological site are located within the ¼-mile radius. The HRI lists 1,045 properties which have been evaluated for historic significance. The CRHR lists 157 properties within the project area which are listed as NRHP

Status 1 or 2, a CHL numbering 770 and higher, or a PHI listed after 1/1/1998. The NRHP lists 21 properties within the project area. Seven of the historic structures are located within the southwest portion of the project area.

Reconnaissance Survey

Five trenching locations were visited during the reconnaissance survey (Figure 2). Three of the five locations are located on steep sloped ridges, in excess of 25 degrees. One is located at the top of a similarly steep sloped ridge within a graded road cut. The fifth location was located on flat ground; however, construction of the roadway in this area appears to have removed approximately six feet of soil from a small hill. No bedrock outcrops were observed in the survey area. Whilst driving through the project area between the five locations, it was observed that essentially all undeveloped terrain is on the slopes of ridges/canyons greater than 25 degrees and the canyon bottoms which contain higher probabilities of archaeological sites have all been developed into residential neighborhoods. It is therefore very unlikely that any intact cultural resources are present in the project area.

SUMMARY

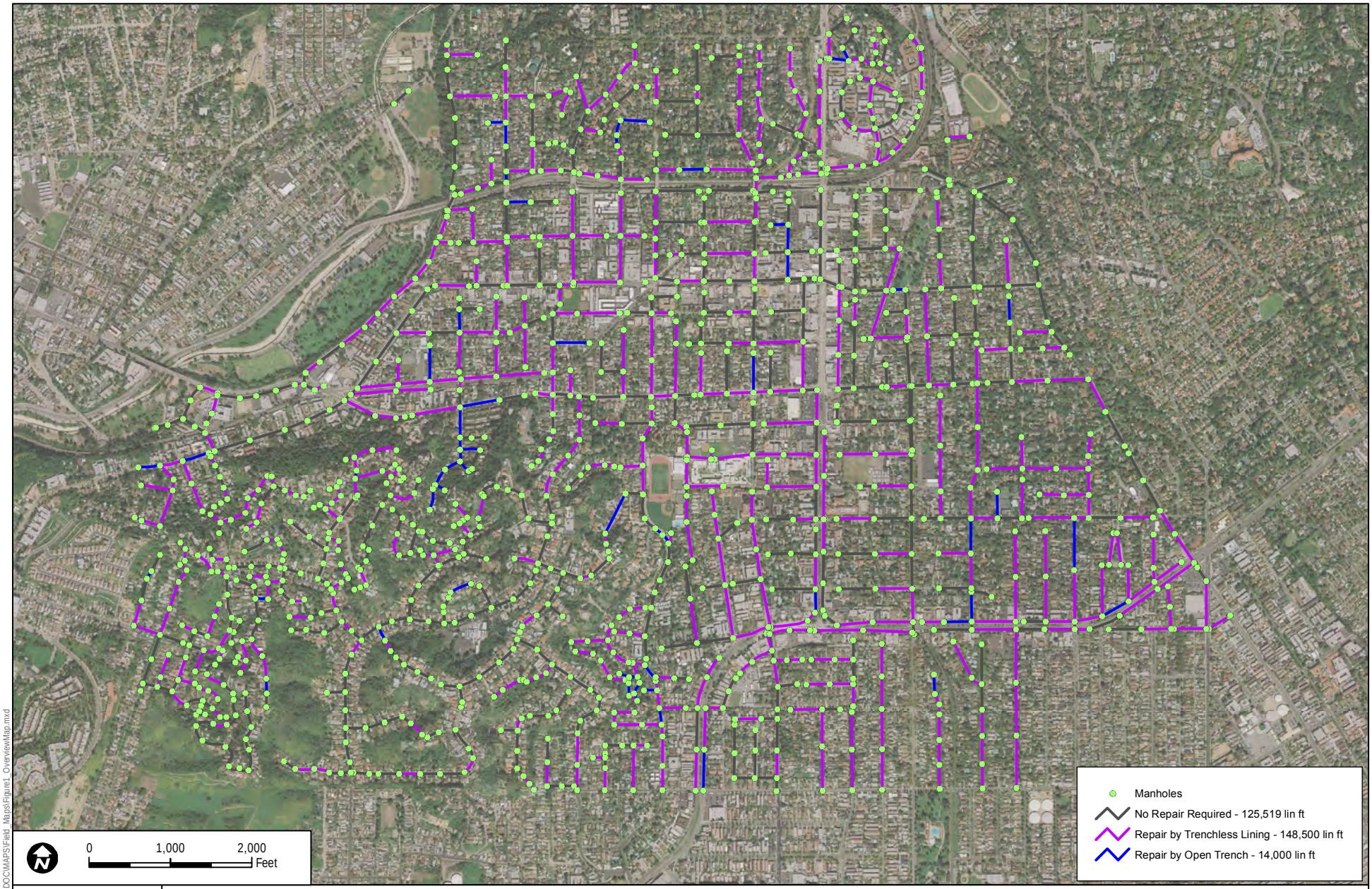
The current sewer line repair plans indicate that only five sections due for replacement through trenching activities may be located in areas which are currently undeveloped or minimally developed. The records search results indicate that only seven historic resources have been recorded in the southwestern portion of the project area. All of these are historic period structures; prehistoric archaeological resources have not been reported in any portion of the project area. Field reconnaissance of the five trenching locations indicated that one of the locations has in fact been extensively graded, three are located on steeps slopes which have a very low probability of containing cultural resources, and the last location is on a graded cut at the top of a similarly steep sloped ridge. Given these results, the likelihood is low thattrenching for the sewer line replacement will encounter cultural resources.

Sincerely,

Brad Comeau, M.Sc.
Archaeologist
Dudek

Att: Figure 1: Project overview with pipeline locations
Figure 2: Pipeline segments surveyed
Appendix A: Record Search Results

cc: Micah Hale, Dudek



DUDEK

7532-02

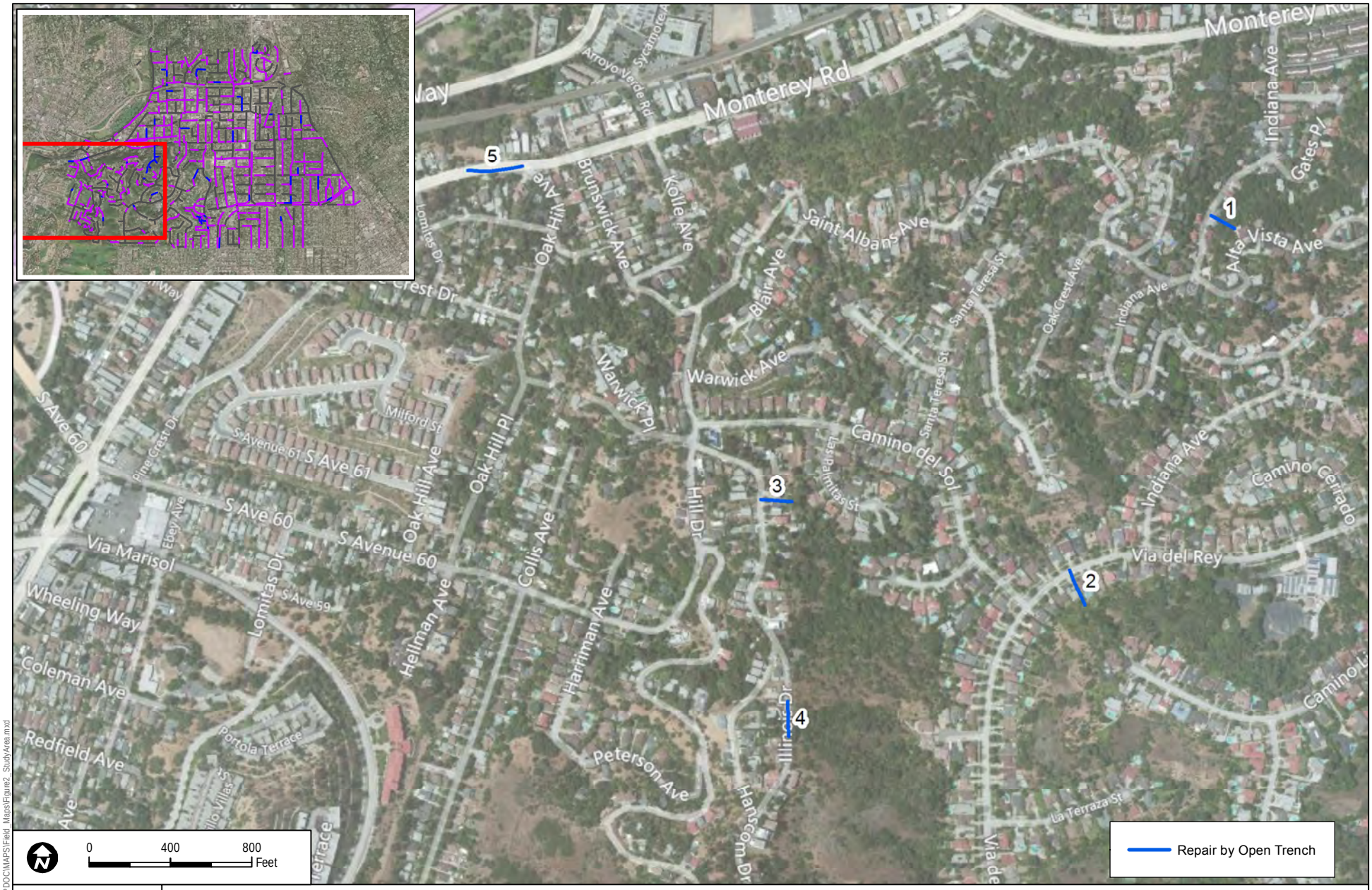
SOURCE: Digital Globe 2010, City of Pasadena 2012

FIGURE 1

Project Area Overview Map

CULTURAL RESOURCES SURVEY REPORT FOR THE CITY OF SOUTH PASADENA WASTEWATER PIPELINE IMPROVEMENT PROJECT

Path: Z:\Projects\7532\02\MAPDOC\MAPS\Field_Maps\Figure1_OverviewMap.mxd



DUDEK

7532-2

SOURCE: Bing, City of Pasadena 2012

FIGURE 2

Study Area Overview Map

CULTURAL RESOURCES SURVEY REPORT FOR THE CITY OF SOUTH PASADENA WASTEWATER PIPELINE IMPROVEMENT PROJECT

Path: Z:\Projects\7532\02\MAPDOC\MAPS\Field_Maps\Figure2_StudyArea.mxd

South Central Coastal Information Center
California State University, Fullerton
Department of Anthropology MH-426
800 North State College Boulevard
Fullerton, CA 92834-6846
657.278.5395 / FAX 657.278.5542
anthro.fullerton.edu/sccic.html - sccic@fullerton.edu
California Historical Resources Information System
Orange, Los Angeles, and Ventura Counties

February 15, 2013 SCCIC #12897.9588

Mr. Nicholas Hanten
Dudek
605 Third Street
Encinitas, CA 92024
(760) 942-5147

RE: Records Search Request for the City of South Pasadena Sewer Project, City of South Pasadena, Los Angeles County, California

Dear Mr. Hanten,

As per your request received on February 11, 2013, a records search was conducted for the above referenced project. The search includes a review of all recorded archaeological sites within a ¼-mile radius of the project site as well as a review of cultural resource reports on file. In addition, the California Points of Historical Interest (SPHI), the California Historical Landmarks (SHL), the California Register of Historical Resources (CAL REG), the National Register of Historic Places (NRHP), and the California State Historic Resources Inventory (HRI) listings were reviewed for the above referenced project. The following is a discussion of the findings.

Los Angeles, CA & Pasadena, CA USGS 7.5' Quadrangles

MAPPED ARCHAEOLOGICAL RESOURCES:

One archaeological site (19-003057) has been identified on our maps within a ¼-mile radius of the project site. No archaeological sites are located within the project site. No sites are listed on the Archaeological Determination of Eligibility (DOE) list. No isolates have been identified within a ¼-mile radius of the project site. No isolates are located within the project site.

MAPPED HISTORIC BUILT-ENVIRONMENT RESOURCES:

Two hundred and seventy-three above-ground historic resources (19-150035*, 19-150040*, 19-150041*, 19-150042*, 19-150053, 19-150054, 19-150055, 19-150056, 19-150057, 19-150058, 19-150059, 19-150060, 19-150061, 19-150062, 19-150063, 19-150064, 19-150065, 19-150066, 19-150067, 19-150068, 19-150069, 19-150070, 19-150071, 19-150072, 19-150073, 19-150074, 19-150075*, 19-150076, 19-150077, 19-150078*, 19-150079*, 19-150080*, 19-150081, 19-150082, 19-150082*, 19-150083, 19-150084, 19-150085, 19-150086, 19-150087, 19-150088, 19-150089, 19-150090, 19-150091, 19-150092, 19-150093, 19-150094, 19-150095, 19-150096, 19-150097, 19-150098, 19-150099, 19-150100, 19-150101,

19-150102, 19-150103, 19-150104, 19-150105, 19-150106, 19-150107, 19-150108, 19-150109, 19-150110, 19-150111, 19-150112, 19-150113, 19-150115, 19-150116, 19-150117, 19-150118, 19-150119, 19-150120, 19-150121, 19-150122, 19-150123, 19-150124, 19-150125, 19-150126, 19-150127, 19-150128, 19-150129, 19-150130, 19-150131, 19-150132, 19-150133, 19-150368, 19-150370, 19-150371, 19-150372, 19-150373, 19-150374, 19-150375, 19-150376, 19-150377, 19-150378, 19-150379, 19-150380, 19-150381, 19-155886, 19-155887, 19-155888, 19-155889, 19-155891, 19-155892, 19-155894, 19-155897, 19-155898, 19-155900, 19-155901, 19-155902, 19-155903, 19-155904, 19-155905, 19-155906, 19-155908, 19-155909, 19-155910, 19-155913, 19-155914, 19-155915, 19-155917, 19-155918, 19-155919, 19-155920, 19-155921, 19-155922, 19-155923, 19-155924, 19-155925, 19-155928, 19-155929, 19-155930, 19-155931, 19-155932, 19-155933, 19-155935, 19-155936, 19-155937, 19-155938, 19-155939, 19-155940, 19-155942, 19-155943, 19-155944, 19-155945, 19-155946, 19-155947, 19-155948, 19-155949, 19-155950, 19-155951, 19-156643, 19-170636, 19-175665, 19-175669, 19-175673, 19-175674, 19-175682, 19-175687, 19-175690, 19-175696, 19-175700, 19-175701, 19-175731, 19-175734, 19-175736, 19-179471*, 19-179472*, 19-179473, 19-179474*, 19-179475*, 19-179476*, 19-179477*, 19-179478*, 19-179479*, 19-179481*, 19-179482*, 19-179483*, 19-179484*, 19-179486, 19-179499*, 19-179500*, 19-179501*, 19-179502*, 19-179503*, 19-179505*, 19-179506*, 19-179509*, 19-179510*, 19-179516*, 19-179518*, 19-179519*, 19-179520*, 19-179521*, 19-179523*, 19-179524*, 19-179525*, 19-179526*, 19-179527*, 19-179528*, 19-179529*, 19-179530*, 19-179531*, 19-179561*, 19-179610*, 19-179614*, 19-179615*, 19-179616*, 19-179617*, 19-179618*, 19-179645*, 19-179649*, 19-179650*, 19-179651*, 19-179652*, 19-179653*, 19-179654*, 19-179655*, 19-179656*, 19-179657*, 19-179658, 19-179659*, 19-179660*, 19-179661*, 19-179662*, 19-179663*, 19-179664*, 19-179665*, 19-179666*, 19-179667*, 19-179668*, 19-179669*, 19-179670*, 19-179671*, 19-179672*, 19-179673*, 19-179674*, 19-179675*, 19-179676*, 19-179677*, 19-179678*, 19-179679*, 19-179680*, 19-179681*, 19-179682*, 19-179683*, 19-179684*, 19-179685*, 19-179686*, 19-179687*, 19-179688*, 19-179689*, 19-179690*, 19-179691*, 19-179692*, 19-184705, 19-184719, 19-184720, 19-184723, 19-184979, 19-186561, 19-186859, 19-186948, 19-187627*, 19-187978*, 19-188513, 19-188719, 19-188766, 19-188767, 19-189325*, 19-189441, 19-189721, 19-189957) have been identified on our maps within a ¼-mile radius of the project site. Ninety-eight above-ground historic resources are located within the project site.
(= Located within the project site)*

ADDITIONAL CULTURAL RESOURCES (all other listings)

The **California Historic Resources Inventory (HRI)** lists one thousand and forty-five properties that have been evaluated for historical significance within the project site **(see enclosed list)**. These are additional resources that are listed in the Historic Property Data File and are located either within the project site or within the search radius.

The **California Point of Historical Interest (SPHI)** of the Office of Historic Preservation, Department of Parks and Recreation, lists no properties within the project site.

The **California Historical Landmarks (SHL)** of the Office of Historic Preservation, Department of Parks and Recreation, lists no properties within the project site.

The **California Register of Historical Resources (CAL REG)** lists one hundred and fifty-seven properties within the project site **(+ see enclosed list)**. These are properties determined to have a National Register of Historic Places Status of 1 or 2, a California Historical Landmark numbering 770 and higher, or a Point of Historical Interest listed after 1/1/1998.

The **National Register of Historic Places (NRHP)** lists twenty-one properties within the project site **(*see enclosed list and see below)**.

Los Angeles 19-179482 Garfield House 1001 Buena Vista St. S. Pasadena 19730424 73000405

Los Angeles 19-179616 Adobe Floras 1804 Foothill St. S. Pasadena 19730618 73000404

Los Angeles-19-179617 Wynyate 851 Lyndon St. S Pasadena 19730424

Los Angeles-19-179518 South Pasadena Historic District Roughly bounded by Mission and El Centro Streets., and Fairview Meridian Aves. South Pasadena 19820721 82002202

Los Angeles 19-179486 Oaklawn Bridge and Waiting Station Between Oaklawn and Fair Oaks Aves. S. Pasadena 73000406

Los Angeles 19-179615 Miltimore House 1301 S. Chelten Way S. Pasadena 19720324 72000235

HISTORIC MAPS:

Copies of our historic maps – Pasadena, CA (1896 & 1900) 15′ USGS - are enclosed for your review.

PREVIOUS CULTURAL RESOURCES INVESTIGATIONS:

Forty-four studies (LA112*, LA115*, LA1319, LA3440*, LA4216*, LA4386*, LA4451*, LA4638*, LA4890*, LA4909*, LA5132*, LA5421*, LA5422, LA5434*, LA5438, LA6334, LA6362*, LA6385*, LA6835, LA6839, LA7075, LA7426, LA7553, LA8151, LA8252, LA8526*, LA8542*, LA8634, LA8928*, LA8948*, LA9098, LA9099, LA9489*, LA9601*, LA10209*, LA10388*, LA10541, LA10576*, LA10713, LA10866, LA11231, LA11529, LA11554*, and LA11650) have been conducted within a ¼-mile radius of the project site. Of these, twenty-four are located within the project site. There are twenty-four additional investigations located on the Los Angeles, CA & Pasadena, CA 7.5′ USGS Quadrangles that are potentially within a ¼-mile radius of the project site. These reports are not mapped due to insufficient locational information.
(= Located within the project site)*

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you **do not include** resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at 657.278.5395 Monday through Thursday 9:00 am to 3:30 pm.

Should you require any additional information for the above referenced project, reference the SCCIC number listed above when making inquiries. Requests made after initial invoicing will result in the preparation of a separate invoice.

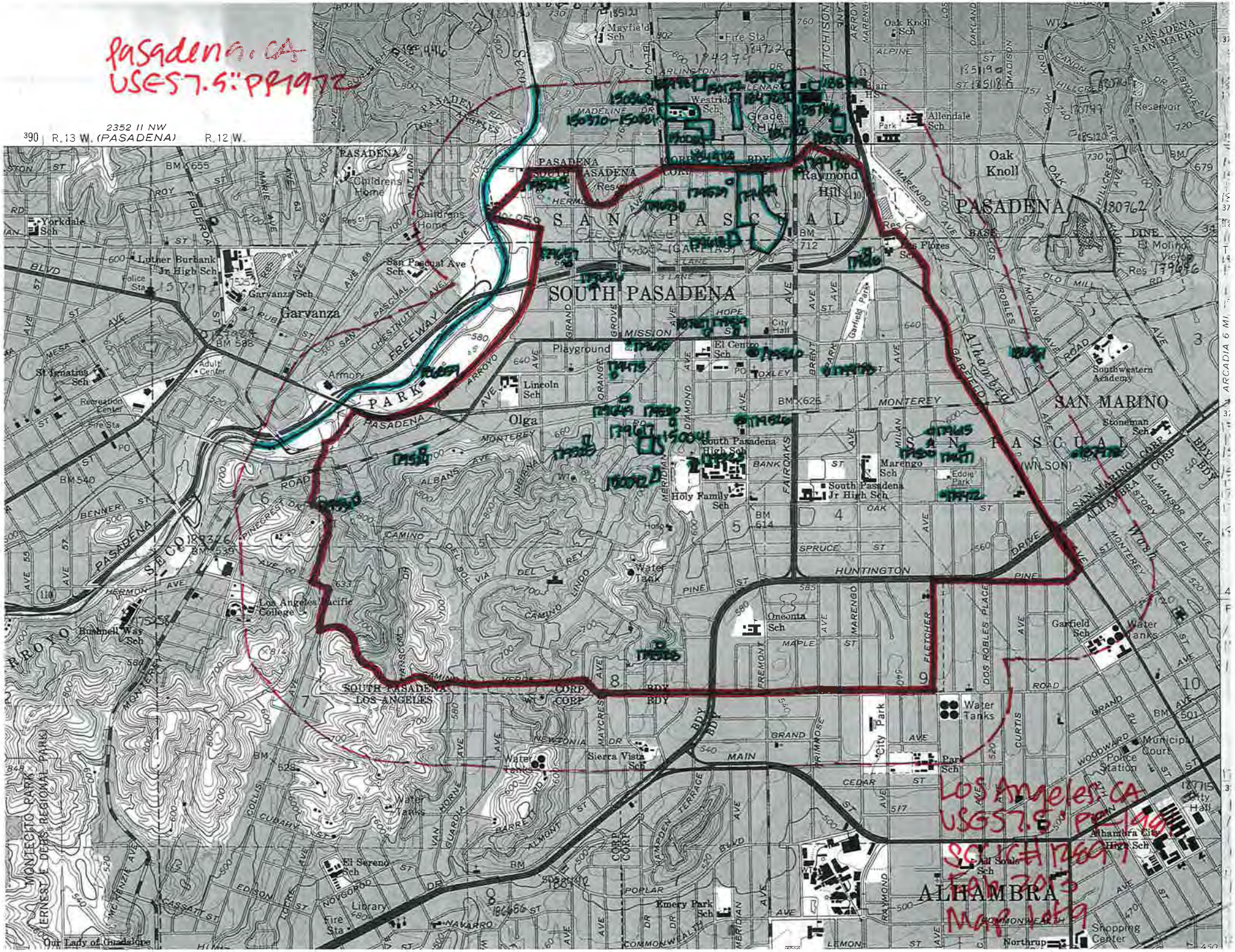
Sincerely,
SCCIC

Lindsey Noyes
Lead Staff Researcher

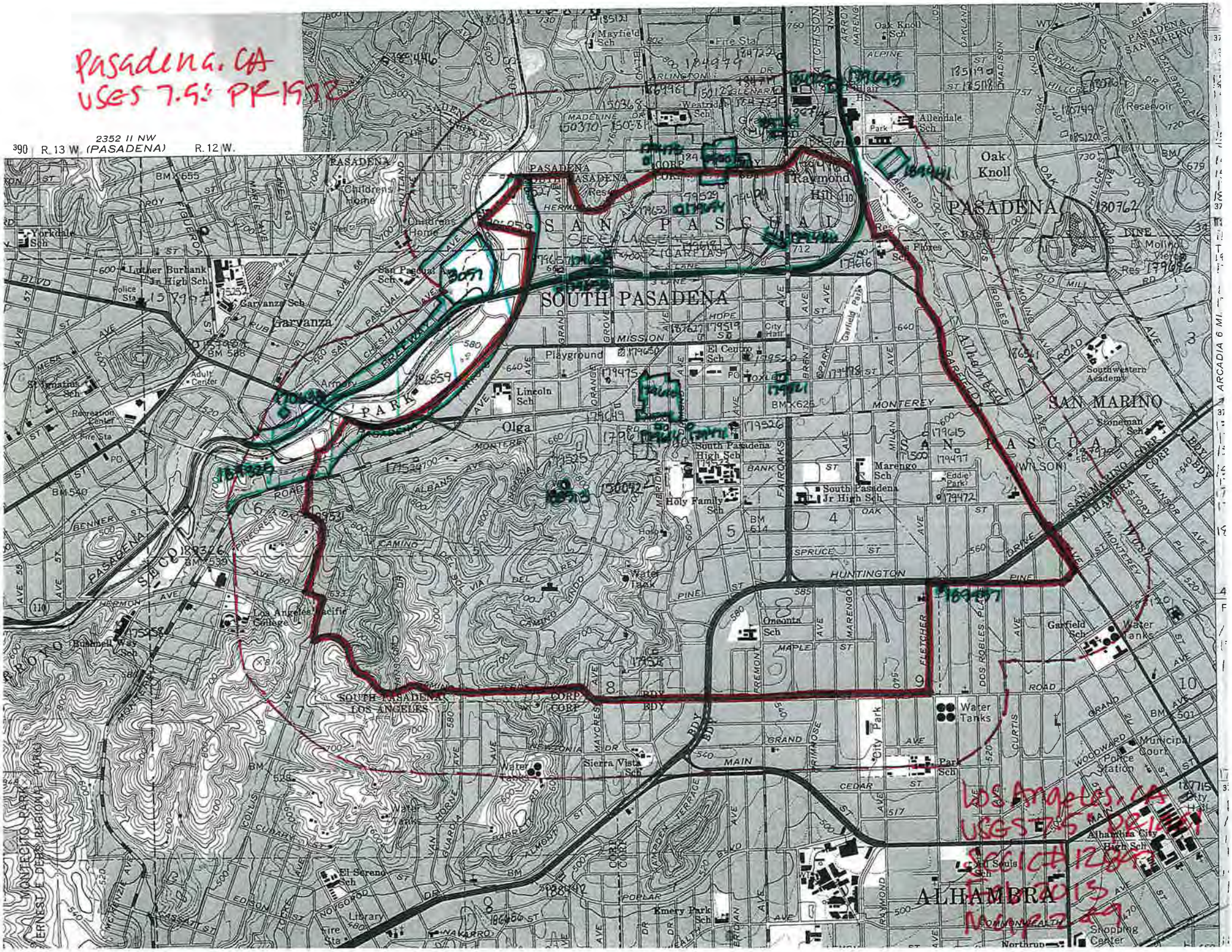
Enclosures:

(X) Maps – Los Angeles, CA and Pasadena, CA 7.5′ USGS Quadrangles, Pasadena, CA (1896 & 1900)15′ USGS Quadrangle – 13 pages
(X) Bibliography – 18 pages
(X) HRI – 27 pages
(X) National Register Status Codes – 1 page
(X) Confidentiality Form
(X) Invoice #12897.9588

Pasadena, CA
USGS 7.5' PR1972



Pasadena, CA
USES 7.9: PR 1972



Los Angeles, CA
USGS 7.5' PR 1994
Enlargement
SCCIC#12977
Map 3 of 9
Holy Family Sch
Hosp
Water Tank
Oneonta Sch
Water Tanks
Emery Park Sch
All Saints Sch
Sierra Park Sch
ALBANS AVE
INDIANA
MERIDIAN
BANK
FAIRO
SPRUCE
DEL SOL VIA
DEL REY
CAMINO LINDO
PINE ST
MARENGO
AVE
MAPLE ST
FREMONT
CAMINO VERDE
ALHAMBRA
CORP
NEWTONIA
GRAND
PRIMROSE
MAIN
CEDAR
ST
HORNE
GUARDIA
VAN
BARRETT RD
ALMONT
HAMPDEN TERRACE
BLVD
POPLAR
NAVARRO
COMMONWEALTH
WARWICK
FARNSWORTH AVE
SHEFFIELD
LOS ANGELES
ALHAMBRA
WESTMONT
WESTBORO
CONCORD
BM 614
BM 305
BM 455
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5

LA 3440
Los Angeles, CA
USGS 7.5'
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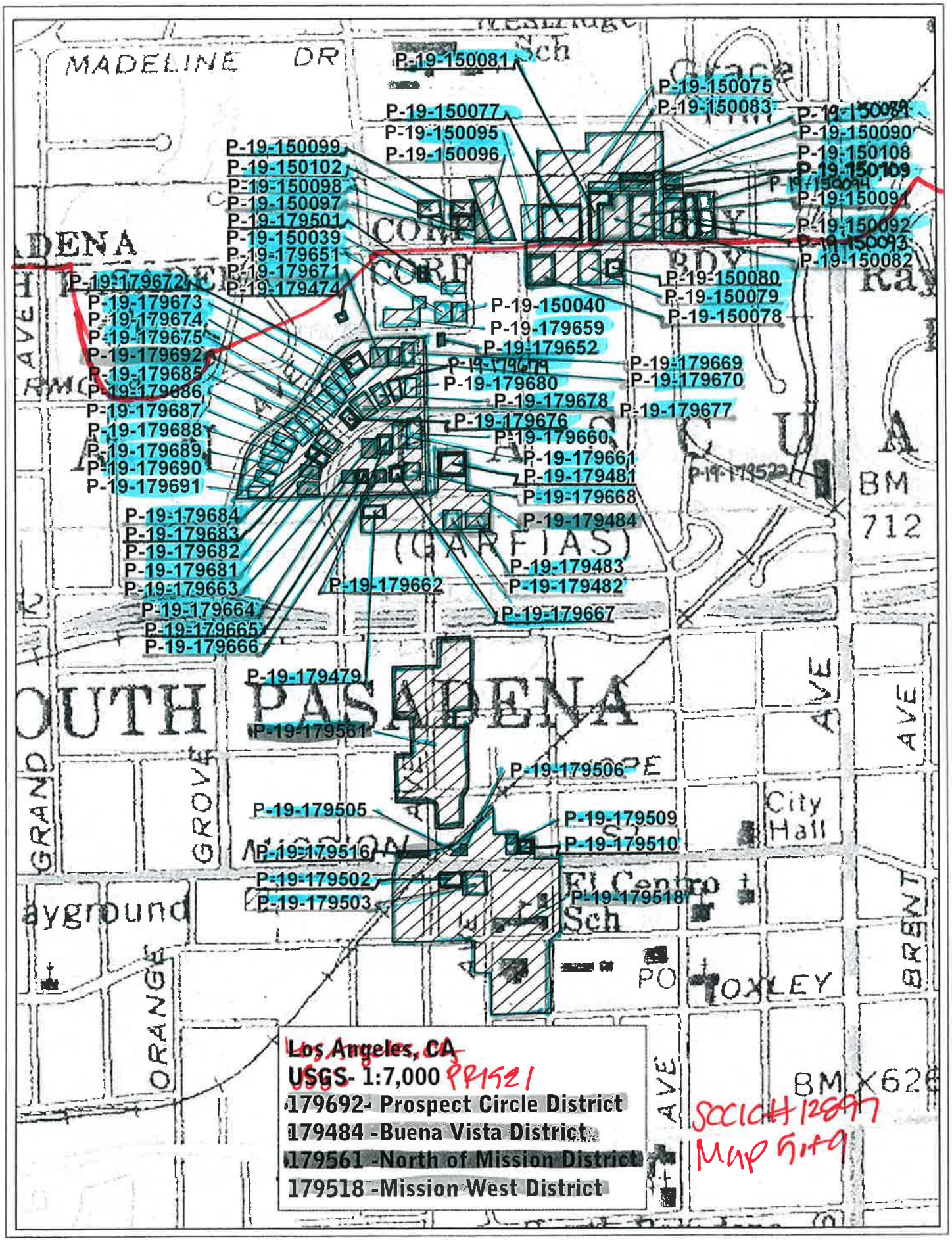
Holy Family Sch
Water Tank
Oneonta Sch
Water Tanks
Emery Park Sch
All Saints Sch
Sierra Park Sch
ALHAMBRA
MAIN
GRAND
MAPLE
PINE
POPLAR
CEDAR
LEMON
ORANGE
COMMONWEALTH
MERIDIAN
FREMONT
MARENGO
PRIMROSE
HAMPDEN TERRACE
WESTBORO
WESTMONT
CONCORD
LOS ANGELES
SHEFFIELD
WARWICK
FARNSWORTH
NAVARRO
VAN HORNE
GUARDIA
ALMONT
BARRETT RD
CAMINO VERDE
CAMINO DEL REY
VIA LINDO
LOS ALBANS
BANK
SPRUCE
BM 614
BM 305
585
580
520
500
460
455
700
800
600


MADELINE DR
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P-19-150108
P-19-150109
P-19-150094
P-19-150091
P-19-150092
P-19-150093
P-19-150082
P-19-150099
P-19-150102
P-19-150098
P-19-150097
P-19-179501
P-19-150039
P-19-179651
P-19-179671
P-19-179474
P-19-179672
P-19-179673
P-19-179674
P-19-179675
P-19-179692
P-19-179685
P-19-179686
P-19-179687
P-19-179688
P-19-179689
P-19-179690
P-19-179691
P-19-150080
P-19-150079
P-19-150078
P-19-150040
P-19-179659
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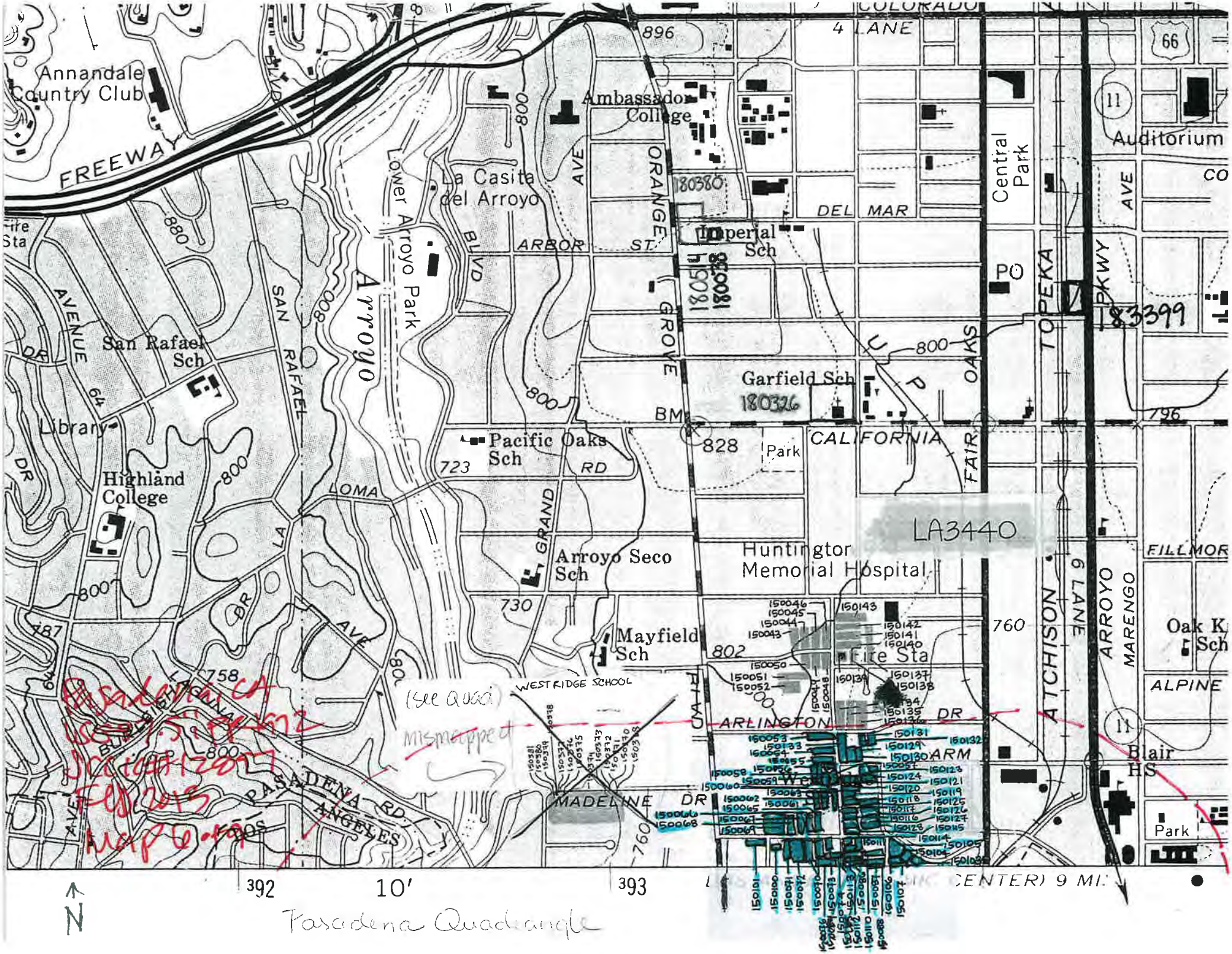
P-19-179509
P-19-179510
P-19-179516
P-19-179502
P-19-179503
P-19-179518
BM 712
City Hall
El Centro Sch
PO
OXLEY
BM X62
Los Angeles, CA
USGS- 1:7,000
179692- Prospect Circle District
179484 -Buena Vista District
179561 -North of Mission District
179518 -Mission West District


Annandale Country Club
FREEWAY
Ambassador College
La Casita del Arroyo
Lower Arroyo Park
Arroyo
SAN RAFAEL
AVENUE
San Rafael Sch
Library
Highland College
LOMA
LA
GRAND
AVE
Arroyo Seco Sch
Pacific Oaks Sch
RD
ARBOR
ST
BLVD
ORANGE
GROVE
Imperial Sch
DEL MAR
Garfield Sch
CALIFORNIA
Park
Huntington Memorial Hospital
Mayfield Sch
WEST RIDGE SCHOOL
ARLINGTON
DR
MADELINE
PASADENA
ANGELES
Central Park
Auditorium
TOPEKA
PKWY
OAKS
FAIR
ATCHISON
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ARROYO
MARENGO
FILLMORE
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66
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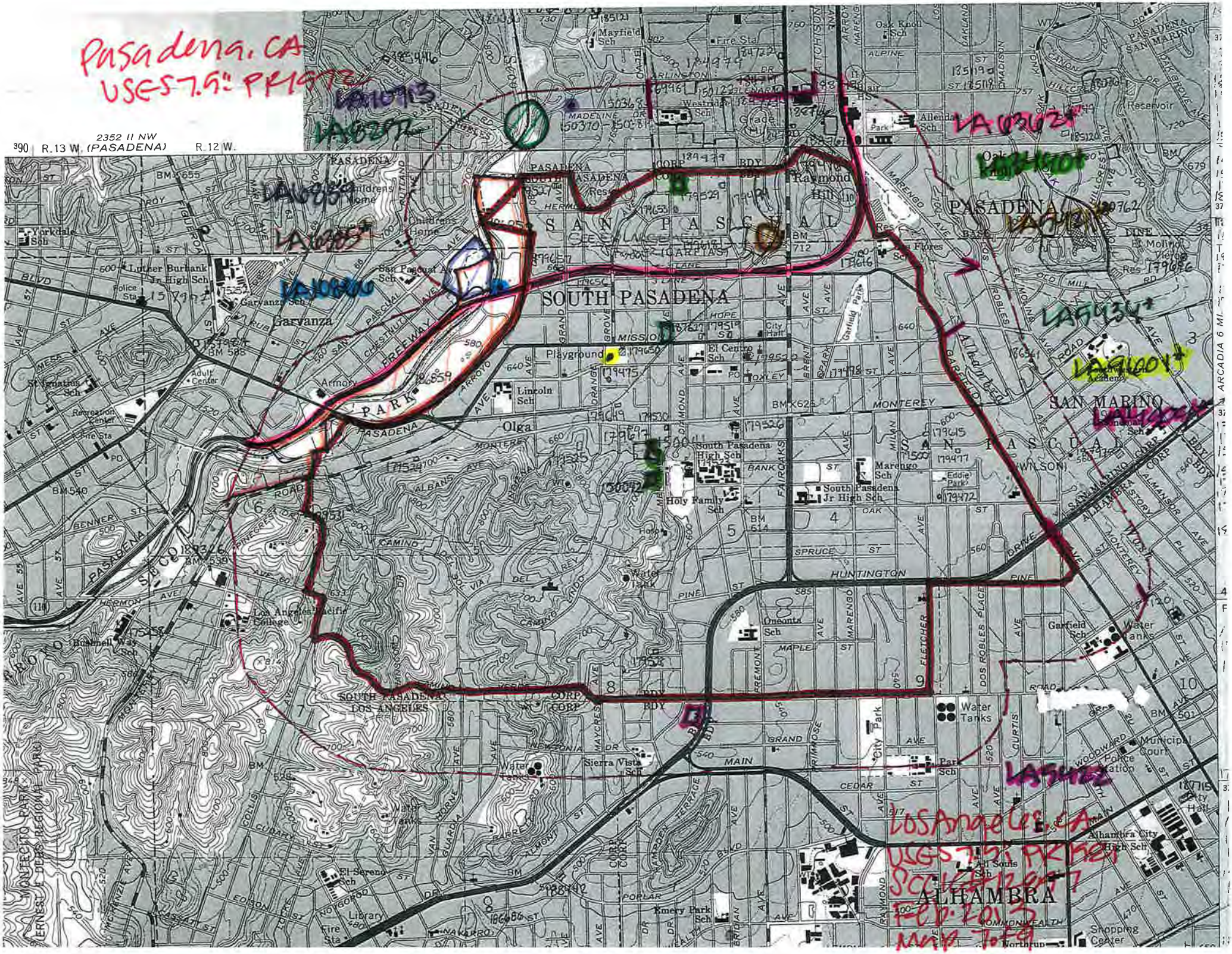
393
CENTER) 9 MI.
N
Pasadena Quadrangle

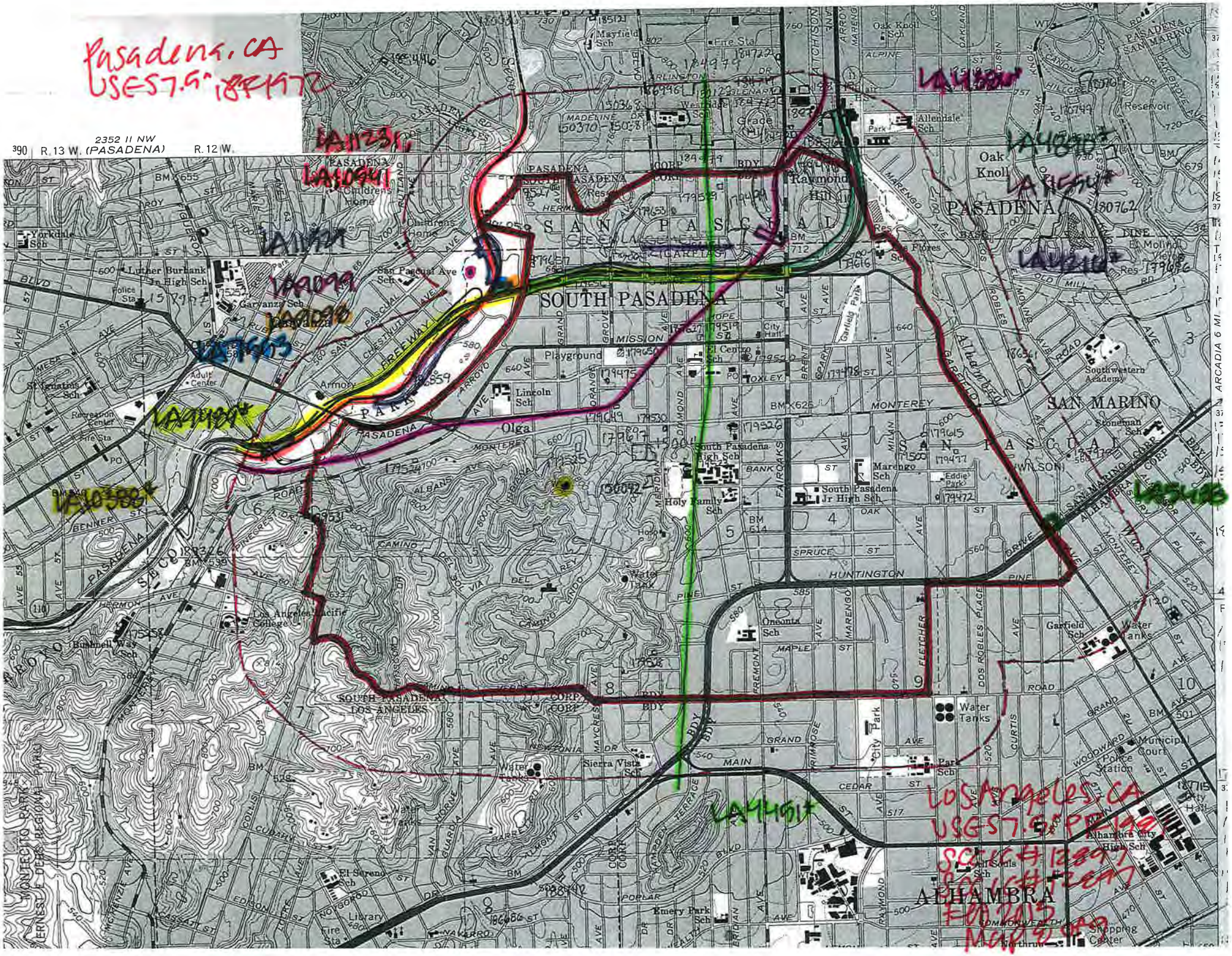
Pasadena, CA
USGS 7.5' PR1972

2352 II NW
(PASADENA)

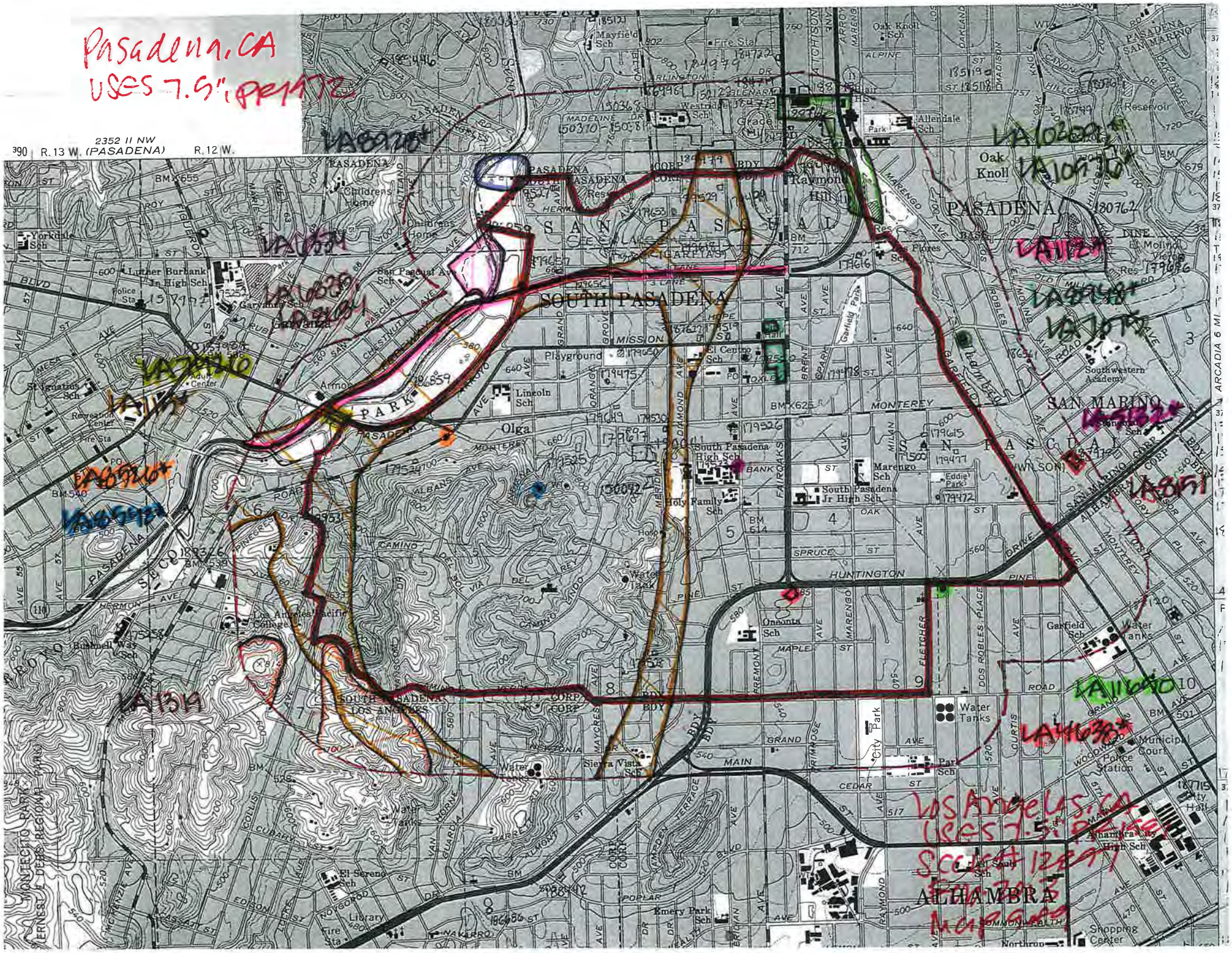
390 R.13 W. R.12 W.



Pasadena, CA
USGS 7.5' 1967



Pasadena, CA
USES 7.5' PR1472



California Historical Resource Status Codes

1 Properties listed in the National Register (NR) or the California Register (CR)

1D Contributor to a district or multiple resource property listed in NR by the Keeper. Listed in the CR.
1S Individual property listed in NR by the Keeper. Listed in the CR.

1CD Listed in the CR as a contributor to a district or multiple resource property by the SHRC
1CS Listed in the CR as individual property by the SHRC.
1CL Automatically listed in the California Register – Includes State Historical Landmarks 770 and above and Points of Historical Interest nominated after December 1997 and recommended for listing by the SHRC.

2 Properties determined eligible for listing in the National Register (NR) or the California Register (CR)

2B Determined eligible for NR as an individual property and as a contributor to an eligible district in a federal regulatory process. Listed in the CR.
2D Contributor to a district determined eligible for NR by the Keeper. Listed in the CR.
2D2 Contributor to a district determined eligible for NR by consensus through Section 106 process. Listed in the CR.
2D3 Contributor to a district determined eligible for NR by Part I Tax Certification. Listed in the CR.
2D4 Contributor to a district determined eligible for NR pursuant to Section 106 without review by SHPO. Listed in the CR.
2S Individual property determined eligible for NR by the Keeper. Listed in the CR.
2S2 Individual property determined eligible for NR by a consensus through Section 106 process. Listed in the CR.
2S3 Individual property determined eligible for NR by Part I Tax Certification. Listed in the CR.
2S4 Individual property determined eligible for NR pursuant to Section 106 without review by SHPO. Listed in the CR.

2CB Determined eligible for CR as an individual property and as a contributor to an eligible district by the SHRC.
2CD Contributor to a district determined eligible for listing in the CR by the SHRC.
2CS Individual property determined eligible for listing in the CR by the SHRC.

3 Appears eligible for National Register (NR) or California Register (CR) through Survey Evaluation

3B Appears eligible for NR both individually and as a contributor to a NR eligible district through survey evaluation.
3D Appears eligible for NR as a contributor to a NR eligible district through survey evaluation.
3S Appears eligible for NR as an individual property through survey evaluation.

3CB Appears eligible for CR both individually and as a contributor to a CR eligible district through a survey evaluation.
3CD Appears eligible for CR as a contributor to a CR eligible district through a survey evaluation.
3CS Appears eligible for CR as an individual property through survey evaluation.

4 Appears eligible for National Register (NR) or California Register (CR) through other evaluation

4CM Master List - State Owned Properties – PRC §5024.

5 Properties Recognized as Historically Significant by Local Government

5D1 Contributor to a district that is listed or designated locally.
5D2 Contributor to a district that is eligible for local listing or designation.
5D3 Appears to be a contributor to a district that appears eligible for local listing or designation through survey evaluation.

5S1 Individual property that is listed or designated locally.
5S2 Individual property that is eligible for local listing or designation.
5S3 Appears to be individually eligible for local listing or designation through survey evaluation.

5B Locally significant both individually (listed, eligible, or appears eligible) and as a contributor to a district that is locally listed, designated, determined eligible or appears eligible through survey evaluation.

6 Not Eligible for Listing or Designation as specified

6C Determined ineligible for or removed from California Register by SHRC.
6J Landmarks or Points of Interest found ineligible for designation by SHRC.
6L Determined ineligible for local listing or designation through local government review process; may warrant special consideration in local planning.
6T Determined ineligible for NR through Part I Tax Certification process.
6U Determined ineligible for NR pursuant to Section 106 without review by SHPO.
6W Removed from NR by the Keeper.
6X Determined ineligible for the NR by SHRC or Keeper.
6Y Determined ineligible for NR by consensus through Section 106 process – Not evaluated for CR or Local Listing.
6Z Found ineligible for NR, CR or Local designation through survey evaluation.

7 Not Evaluated for National Register (NR) or California Register (CR) or Needs Revaluation

7J Received by OHP for evaluation or action but not yet evaluated.
7K Resubmitted to OHP for action but not reevaluated.
7L State Historical Landmarks 1-769 and Points of Historical Interest designated prior to January 1998 – Needs to be reevaluated using current standards.
7M Submitted to OHP but not evaluated - referred to NPS.
7N Needs to be reevaluated (Formerly NR Status Code 4)
7N1 Needs to be reevaluated (Formerly NR SC4) – may become eligible for NR w/restoration or when meets other specific conditions.
7R Identified in Reconnaissance Level Survey: Not evaluated.
7W Submitted to OHP for action – withdrawn.

PROPERTY-NUMBER	PRIMARY-#	STREET.ADDRESS.....	NAMES.....	CITY.NAME.....	OWN	YR-C	OHP-PROG..	PRG-REFERENCE-NUMBER	STAT-DAT	NRS	CRIT
084668		10228 SAN VINCENTE AVE		SOUTH GATE	P	1941	PROJ.REVW.	HUD930910H	11/04/93	6Y	
187183		2981 SANTA ANNA ST		SOUTH GATE	P	1923	PROJ.REVW.	HUD111027B	11/02/11	6Y	
180209		8600 SANTA FE AVE	SOUTH GATE WATER TOWER	SOUTH GATE	P	1946	PROJ.REVW.	FCC100524L	10/28/10	6Y	
095922		2442 SOUTHERN AVE		SOUTH GATE	P	1941	PROJ.REVW.	HUD950331K	05/24/95	6Y	
095920		3360 SOUTHERN AVE		SOUTH GATE	P	1924	PROJ.REVW.	HUD950331J	05/24/95	6Y	
077316		10407 ST JAMES AVE		SOUTH GATE	U	1928	PROJ.REVW.	HUD920526A	06/25/92	6Y	
170874		10600 ST JAMES AVE		SOUTH GATE	P	1952	PROJ.REVW.	HUD080407E	04/11/08	6Y	
182472		10243 STANFORD AVE		SOUTH GATE	P	1939	PROJ.REVW.	HUD110526L	06/01/11	6Y	
065528		10408 STANFORD AVE		SOUTH GATE	U		PROJ.REVW.	HUD881026B	11/17/88	6Y	
065248		STATE ST	FIRE STATION	SOUTH GATE	U		PROJ.REVW.	HUD870622J	07/14/87	6Y	
127879		8478 STATE ST		SOUTH GATE			HIST.RES.	DOE-19-01-0175-0000	04/10/01	6Y	
							PROJ.REVW.	FCC010309F	04/10/01	6Y	
144647		8632 STATE ST		SOUTH GATE	P	1946	HIST.RES.	DOE-19-03-0288-0000	11/06/03	6Y	
							PROJ.REVW.	HUD031023C	11/06/03	6Y	
066002		8983 STATE ST		SOUTH GATE	U		PROJ.REVW.	HUD890711U	08/07/89	6Y	
066667		3727 TENAYA AVE		SOUTH GATE	U		PROJ.REVW.	HUD880513B	06/13/88	6Y	
066648		3921 TENAYA AVE		SOUTH GATE	U		PROJ.REVW.	HUD880425F	05/26/88	6Y	
179129		3725 TWEEDY BLVD		SOUTH GATE	P	1962	PROJ.REVW.	FCC091221D	03/04/10	6Y	
184065		8157 VICTORIA AVE		SOUTH GATE	P	1923	PROJ.REVW.	HUD100922B	10/05/10	6Y	
185030		8975 VIRGINA AVE		SOUTH GATE	P	1922	PROJ.REVW.	HUD101129G	12/08/10	6Y	
066883		8174 VIRGINIA AVE		SOUTH GATE	U		PROJ.REVW.	HUD890915A	10/12/89	6Y	
095924		9812 VIRGINIA AVE		SOUTH GATE	P	1923	PROJ.REVW.	HUD950331L	05/24/95	6Y	
099920		9820 VIRGINIA AVE		SOUTH GATE	P	1924	PROJ.REVW.	HUD951208C	01/05/96	6Y	
065632		10321 VIRGINIA AVE		SOUTH GATE	U		PROJ.REVW.	HUD881222B	01/20/89	6Y	
169972		10104 WALNUT AVE		SOUTH GATE	P	1939	PROJ.REVW.	HUD080204M	02/08/08	6Y	
087628		10243 WALNUT AVE		SOUTH GATE	P	1940	PROJ.REVW.	HUD931231F	02/18/94	6Y	
182908		10517 WALNUT AVE		SOUTH GATE	P	1942	PROJ.REVW.	HUD100809G	08/16/10	6Y	
177035			ASHBOURNE-CHELTEN DISTRICT	SOUTH PASADENA	P	1910	HIST.SURV.	1030-0321-9999	11/01/04	3B	
+ 068802			SO PASADENA WAR MEMORIAL	SOUTH PASADENA	U		PROJ.REVW.	HUD880216H	06/03/88	2S2	AC
+ 030335	19-179646		GROSSE HOUSE	SOUTH PASADENA	U		HIST.SURV.	1030-0038-0000	01/01/83	2S2	
							PROJ.REVW.	65000787	03/31/83	2S2	
+ 030337	19-179647		N OF MISSION DISTRICT	SOUTH PASADENA	U		HIST.SURV.	1030-0040-0000	01/01/83	2S2	
+ 030338	19-179648		S OF MISSION DISTRICT	SOUTH PASADENA	U		HIST.SURV.	1030-0041-0000	01/01/83	2S2	
149735			PROSPECT CIRCLE DISTRICT	SOUTH PASADENA	P		HIST.SURV.	1030-0056-9999	09/24/04	3S	
151019			LOWER GRAND AVENUE DISTRICT	SOUTH PASADENA	P	1890	HIST.SURV.	1030-0319-9999	12/16/04	7R	
151092			WAYNE, BUSHNELL AND FLETCHER DISTR	SOUTH PASADENA		1902	HIST.SURV.	1030-0320-9999	12/16/04	7R	
153863		1014 ADELAINE AVE		SOUTH PASADENA		1905	PROJ.REVW.	HUD040329B	04/21/04	6U	
066507		1426 ALHAMBRA RD		SOUTH PASADENA	U		PROJ.REVW.	HUD880216F	03/18/88	6Y	
066508		1430 ALHAMBRA RD		SOUTH PASADENA	U		PROJ.REVW.	HUD880216G	03/18/88	6Y	
107588		2001 ALPHA AVE		SOUTH PASADENA	P	1938	HIST.RES.	DOE-19-97-0002-0001	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108601		2005 ALPHA AVE		SOUTH PASADENA	P	1963	HIST.RES.	DOE-19-97-0002-0002	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108618		2011 ALPHA AVE		SOUTH PASADENA	P	1942	HIST.RES.	DOE-19-97-0002-0003	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108619		2015 ALPHA AVE		SOUTH PASADENA	P	1946	HIST.RES.	DOE-19-97-0002-0004	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108627		2019 ALPHA AVE		SOUTH PASADENA	P	1909	HIST.RES.	DOE-19-97-0002-0005	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108630		2021 ALPHA AVE		SOUTH PASADENA	P	1939	HIST.RES.	DOE-19-97-0002-0006	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108632		2025 ALPHA AVE		SOUTH PASADENA	P	1922	HIST.RES.	DOE-19-97-0002-0007	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108640		2028 ALPHA AVE		SOUTH PASADENA	P	1912	HIST.RES.	DOE-19-97-0002-0009	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	

ROPERTY-NUMBER	PRIMARY-#	STREET.ADDRESS.....	NAMES.....	CITY.NAME.....	OWN	YR-C	OHP-PROG..	PRG-REFERENCE-NUMBER	STAT-DAT	NRS	CRIT
108635		2029 ALPHA AVE		SOUTH PASADENA	P	1922	HIST.RES.	DOE-19-97-0002-0008	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108644		2032 ALPHA AVE		SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-97-0002-0011	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108642		2033 ALPHA AVE		SOUTH PASADENA	P	1922	HIST.RES.	DOE-19-97-0002-0010	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108653		2034 ALPHA AVE		SOUTH PASADENA	P	1939	HIST.RES.	DOE-19-97-0002-0012	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108654		2037 ALPHA AVE		SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-97-0002-0013	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108656		2041 ALPHA AVE		SOUTH PASADENA	P	1913	HIST.RES.	DOE-19-97-0002-0014	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
065467		2042 ALPHA AVE		SOUTH PASADENA	P	1914	HIST.RES.	DOE-19-97-0002-0015	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							PROJ.REVW.	HUD881004B	10/27/88	6Y	
108786		2043 ALPHA AVE		SOUTH PASADENA	P	1919	HIST.RES.	DOE-19-97-0002-0016	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108893		2046 ALPHA AVE		SOUTH PASADENA	P	1912	HIST.RES.	DOE-19-97-0002-0017	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108897		2049 ALPHA AVE		SOUTH PASADENA	P	1910	HIST.RES.	DOE-19-97-0002-0018	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108900		2050 ALPHA AVE		SOUTH PASADENA	P	1938	HIST.RES.	DOE-19-97-0002-0019	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
099576		2060 ALPHA AVE		SOUTH PASADENA	P	1906	HIST.RES.	DOE-19-97-0002-0020	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.RES.	DOE-19-95-0004-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
150384		330 ALTA VISTA AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0057-0000	12/16/04	7R	
150385		535 ALTA VISTA AVE		SOUTH PASADENA	P	1942	HIST.SURV.	1030-0058-0000	12/16/04	7R	
150386		ARROYO SQUARE	600 BLOCK OF ARROYO SQUARE	SOUTH PASADENA		1938	HIST.SURV.	1030-0059-0000	12/16/04	7R	
150388		1001 ARROYO VERDE RD		SOUTH PASADENA	P	1887	HIST.SURV.	1030-0060-0000	12/16/04	7R	
177074		ASHBOURNE AVE	OAK TREES	SOUTH PASADENA	M	1891	HIST.SURV.	1030-0321-0033	11/01/04	5S1	
177036		2000 ASHBOURNE DR		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0321-0001	11/01/04	3D	
177037		2007 ASHBOURNE DR		SOUTH PASADENA	P	1917	HIST.SURV.	1030-0321-0002	11/01/04	3D	
177038		2019 ASHBOURNE DR		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0321-0003	11/01/04	3D	
177039		2024 ASHBOURNE DR	FRANCIS S BAER HOUSE	SOUTH PASADENA	P	1926	HIST.SURV.	1030-0321-0004	11/01/04	3B	
177040		2040 ASHBOURNE DR		SOUTH PASADENA	P	1930	HIST.SURV.	1030-0321-0005	11/01/04	3B	
030166	19-179477	2041 ASHBOURNE DR	KATE PLUMB HOUSE	SOUTH PASADENA	P	1910	HIST.SURV.	1030-0321-0006	11/01/04	3B	
							HIST.SURV.	1030-0007-0000		3S	
177041		2045 ASHBOURNE DR		SOUTH PASADENA	P	1968	HIST.SURV.	1030-0321-0007	11/01/04	5S3	
177042		2050 ASHBOURNE DR	BUFORD GRAVES HOUSE	SOUTH PASADENA	P	1928	HIST.SURV.	1030-0321-0008	11/01/04	3D	
177043		2055 ASHBOURNE DR		SOUTH PASADENA	P	1931	HIST.SURV.	1030-0321-0009	11/01/04	3D	
177044		2075 ASHBOURNE DR		SOUTH PASADENA	P	2075	HIST.SURV.	1030-0321-0010	11/01/04	5D3	
116022		857 BANK ST	OTAKE/NAMBU HOUSE	SOUTH PASADENA	P	1890	CHRIS	19-150042	11/01/93	7	
099579		201 BEACON AVE		SOUTH PASADENA	P	1907	HIST.RES.	DOE-19-95-0005-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
116020		209 BEACON AVE	SMITH, WHITNEY R. AND VIRGINIA, HO	SOUTH PASADENA	S	1900	CHRIS	19-150039	10/01/93	7	
104459		1100 BEECH ST	GILLETTE CRESCENT-MERIDIAN AVENUE	SOUTH PASADENA	P	1951	HIST.SURV.	1109-1815-0001	10/31/96	7M	
104462		1103 BEECH ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0002	10/31/96	7M	
104463		1104 BEECH ST		SOUTH PASADENA	P	1932	HIST.SURV.	1109-1815-0003	10/31/96	7M	
104464		1107 BEECH ST		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0004	10/31/96	7M	
104465		1108 BEECH ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0005	10/31/96	7M	
104468		1112 BEECH ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0006	10/31/96	7M	
104470		1113 BEECH ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0007	10/31/96	7M	
104471		1115 BEECH ST		SOUTH PASADENA	P	1922	HIST.SURV.	1109-1815-0008	10/31/96	7M	
104473		1118 BEECH ST		SOUTH PASADENA	P	1922	HIST.SURV.	1109-1815-0009	10/31/96	7M	

PROPERTY-NUMBER	PRIMARY-#	STREET.ADDRESS.....	NAMES.....	CITY.NAME.....	OWN	YR-C	OHP-PROG..	PRG-REFERENCE-NUMBER	STAT-DAT	NRS	CRIT
104474		1120 BEECH ST		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0010	10/31/96	7M	
104475		1121 BEECH ST		SOUTH PASADENA	P	1922	HIST.SURV.	1109-1815-0011	10/31/96	7M	
104477		1124 BEECH ST		SOUTH PASADENA	P	1922	HIST.SURV.	1109-1815-0012	10/31/96	7M	
104478		1125 BEECH ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0013	10/31/96	7M	
104480		1127 BEECH ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0014	10/31/96	7M	
104482		1130 BEECH ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0015	10/31/96	7M	
104483		1131 BEECH ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0016	10/31/96	7M	
104485		1132 BEECH ST		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0017	10/31/96	7M	
104487		1136 BEECH ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0018	10/31/96	7M	
150389		1404 BEECH ST		SOUTH PASADENA	P	1937	HIST.SURV.	1030-0061-0000	12/16/04	7R	
150390		1417 BEECH ST		SOUTH PASADENA	P	1937	HIST.SURV.	1030-0062-0000	12/16/04	7R	
150391		1427 BEECH ST		SOUTH PASADENA	P	1937	HIST.SURV.	1030-0063-0000	12/16/04	7R	
150393		1504 BEECH ST		SOUTH PASADENA	P	1937	HIST.SURV.	1030-0064-0000	12/16/04	7R	
150394		1512 BEECH ST		SOUTH PASADENA	P	1936	HIST.SURV.	1030-0065-0000	12/16/04	7R	
+ 099885		BERKSHIRE AVE	SHORT LINE VILLA DISTRICT	SOUTH PASADENA	P	1900	HIST.RES.	DOE-19-95-0003-9999	11/20/95	2S	AC
							PROJ.REVW.	FHWA830201A	03/07/95	2S	AC
108905		2002 BERKSHIRE AVE		SOUTH PASADENA	S	1923	HIST.RES.	DOE-19-97-0002-0021	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
108922		2010 BERKSHIRE AVE		SOUTH PASADENA	P	1910	HIST.RES.	DOE-19-97-0002-0022	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
099578		2017 BERKSHIRE AVE		SOUTH PASADENA	P	1903	HIST.RES.	DOE-19-97-0002-0023	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.RES.	DOE-19-95-0006-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
108924		2018 BERKSHIRE AVE		SOUTH PASADENA	P	1914	HIST.RES.	DOE-19-97-0002-0024	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
099582		2020 BERKSHIRE AVE		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0002-0025	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.RES.	DOE-19-95-0007-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
109078		2021 BERKSHIRE AVE		SOUTH PASADENA	P	1903	HIST.RES.	DOE-19-97-0002-0026	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109079		2024 BERKSHIRE AVE		SOUTH PASADENA	P	1950	HIST.RES.	DOE-19-97-0002-0027	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109405		2025 BERKSHIRE AVE		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0002-0028		6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109409		2028 BERKSHIRE AVE		SOUTH PASADENA	S	1925	HIST.RES.	DOE-19-97-0002-0029	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
099583		2031 BERKSHIRE AVE		SOUTH PASADENA	P	1914	HIST.RES.	DOE-19-97-0002-0030	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.RES.	DOE-19-95-0008-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
109419		2035 BERKSHIRE AVE		SOUTH PASADENA	S		HIST.RES.	DOE-19-97-0002-0031	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
099584		2037 BERKSHIRE AVE		SOUTH PASADENA	P	1919	HIST.RES.	DOE-19-97-0002-0032	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.RES.	DOE-19-95-0009-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
109425		2043 BERKSHIRE AVE		SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-97-0002-0033	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
+ 030217	19-179528	816 BONITA AVE	GROKOWSKY HOUSE / GROKOWSKI HOUSE	SOUTH PASADENA	S	1928	HIST.RES.	DOE-19-83-0021-0000	03/31/83	2S2	A
							PROJ.REVW.	FHWA830201A	02/02/83	2S2	A
							HIST.SURV.	1030-0023-0000	01/01/83	2S2	
							PROJ.REVW.	65000785	03/31/83		
107570		704 BONITA DR		SOUTH PASADENA	P	1939	HIST.RES.	DOE-19-97-0001-0053	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	

ROPERTY-NUMBER	PRIMARY-#	STREET.ADDRESS.....	NAMES.....	CITY.NAME.....	OWN	YR-C	OHP-PROG..	PRG-REFERENCE-NUMBER	STAT-DAT	NRS	CRIT
104489		704 BONITA DR		SOUTH PASADENA	P	1938	HIST.SURV.	1109-1815-0019	10/31/96	7M	
107550		705 BONITA DR		SOUTH PASADENA	S	1926	HIST.RES.	DOE-19-97-0001-0035	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0020	10/31/96	7M	
099585		708 BONITA DR		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0001	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.RES.	DOE-19-95-0010-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
104493		708 BONITA DR		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0021	10/31/96	7M	
104495		709 BONITA DR		SOUTH PASADENA	P	1937	HIST.SURV.	1109-1815-0022	10/31/96	7M	
107465		709 BONITA DR		SOUTH PASADENA	P	1938	HIST.RES.	DOE-19-97-0001-0002	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
107467		712 BONITA DR		SOUTH PASADENA	P	1944	HIST.RES.	DOE-19-97-0001-0003	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
104497		712 BONITA DR		SOUTH PASADENA	P	1944	HIST.SURV.	1109-1815-0023	10/31/96	7M	
104499		716 BONITA DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0024	10/31/96	7M	
099587		717 BONITA DR		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-95-0011-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
104501		717 BONITA DR		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0025	10/31/96	7M	
104503		724 BONITA DR		SOUTH PASADENA	P	1990	HIST.SURV.	1109-1815-0026	10/31/96	7M	
104505		731 BONITA DR		SOUTH PASADENA	P	1926	HIST.SURV.	1109-1815-0027	10/31/96	7M	
104507		732 BONITA DR		SOUTH PASADENA	P	1987	HIST.SURV.	1109-1815-0028	10/31/96	7M	
104509		736 BONITA DR		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0029	10/31/96	7M	
104511		739 BONITA DR		SOUTH PASADENA	P	1964	HIST.SURV.	1109-1815-0030	10/31/96	7M	
104512		740 BONITA DR		SOUTH PASADENA	P	1945	HIST.SURV.	1109-1815-0031	10/31/96	7M	
104514		744 BONITA DR		SOUTH PASADENA	P	1992	HIST.SURV.	1109-1815-0032	10/31/96	7M	
104515		748 BONITA DR		SOUTH PASADENA	P	1926	HIST.SURV.	1109-1815-0033	10/31/96	7M	
104517		751 BONITA DR		SOUTH PASADENA	P	1927	HIST.SURV.	1109-1815-0034	10/31/96	7M	
104519		752 BONITA DR		SOUTH PASADENA	P	1963	HIST.SURV.	1109-1815-0035	10/31/96	7M	
099588		756 BONITA DR		SOUTH PASADENA	P	1926	HIST.RES.	DOE-19-95-0012-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
104521		756 BONITA DR		SOUTH PASADENA	P	1926	HIST.SURV.	1109-1815-0036	10/31/96	7M	
104522		760 BONITA DR		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0037	10/31/96	7M	
104524		769 BONITA DR		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0038	10/31/96	7M	
104526		773 BONITA DR		SOUTH PASADENA	P	1926	HIST.SURV.	1109-1815-0039	10/31/96	7M	
104527		801 BONITA DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0040	10/31/96	7M	
104529		809 BONITA DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0041	10/31/96	7M	
104531		811 BONITA DR		SOUTH PASADENA	P	1938	HIST.SURV.	1109-1815-0042	10/31/96	7M	
104532		815 BONITA DR		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0043	10/31/96	7M	
104534		816 BONITA DR		SOUTH PASADENA	P	1929	HIST.SURV.	1109-1815-0044	10/31/96	7M	
104632		820 BONITA DR		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0045	11/05/96	7M	
104633		823 BONITA DR		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0046	11/05/96	7M	
104636		827 BONITA DR		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0047	11/05/96	7M	
104638		830 BONITA DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0048	11/05/96	7M	
104639		831 BONITA DR		SOUTH PASADENA	P	1938	HIST.SURV.	1109-1815-0049	11/05/96	7M	
104641		900 BONITA DR		SOUTH PASADENA	P	1949	HIST.SURV.	1109-1815-0050	11/05/96	7M	
104644		901 BONITA DR		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0051	11/05/96	7M	
104647		905 BONITA DR		SOUTH PASADENA	P	1926	HIST.SURV.	1109-1815-0052	11/05/96	7M	
104649		910 BONITA DR		SOUTH PASADENA	P	1946	HIST.SURV.	1109-1815-0053	11/05/96	7M	
104650		911 BONITA DR		SOUTH PASADENA	P	1961	HIST.SURV.	1109-1815-0054	11/05/96	7M	
104652		912 BONITA DR		SOUTH PASADENA	P	1984	HIST.SURV.	1109-1815-0055	11/05/96	7M	
104654		916 BONITA DR		SOUTH PASADENA	P	1928	HIST.SURV.	1109-1815-0056	11/05/96	7M	
104657		917 BONITA DR		SOUTH PASADENA	P	1936	HIST.SURV.	1109-1815-0057	11/05/96	7M	
150395		705 BRENT AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0066-0000	12/16/04	7R	
150397		711 BRENT AVE		SOUTH PASADENA	P	1928	HIST.SURV.	1030-0067-0000	12/16/04	7R	
150399		715 BRENT AVE		SOUTH PASADENA	P	1928	HIST.SURV.	1030-0068-0000	12/16/04	7R	

PROPERTY-NUMBER	PRIMARY-#	STREET.ADDRESS.....	NAMES.....	CITY.NAME.....	OWN	YR-C	OHP-PROG..	PRG-REFERENCE-NUMBER	STAT-DAT	NRS	CRIT
150400		735 BRENT AVE		SOUTH PASADENA	P	1899	HIST.SURV.	1030-0069-0000	12/16/04	7R	
150401		805 BRENT AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0070-0000	12/16/04	7R	
150406		812 BRENT AVE		SOUTH PASADENA	P	1907	HIST.SURV.	1030-0071-0000	12/16/04	7R	
150408		816 BRENT AVE		SOUTH PASADENA	P	1916	HIST.SURV.	1030-0072-0000	12/16/04	7R	
150409		825 BRENT AVE		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0073-0000	12/16/04	7R	
030167	19-179478	1036 BRENT ST	KATE A. WHITE HOUSE	SOUTH PASADENA	P	1904	HIST.SURV.	1030-0008-0000		5S2	
+ 030220	19-179531	1243 BRUNSWICK AVE	MARVIN HOUSE, CAPTAINS HOUSE	SOUTH PASADENA	P	1906	HIST.SURV.	1030-0074-0000	12/16/04	7R	
							HIST.SURV.	1030-0026-0000	01/01/83	2S2	
							PROJ.REVW.	FHWA830201A	02/28/83	2S2	
							PROJ.REVW.	65000874	03/31/83	2S2	
150410		1305 BRUNSWICK AVE		SOUTH PASADENA	P	1929	HIST.SURV.	1030-0075-0000	12/16/04	7R	
150412		1313 BRUNSWICK AVE		SOUTH PASADENA	P	1931	HIST.SURV.	1030-0076-0000	12/16/04	7R	
150413		1335 BRUNSWICK AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0077-0000	12/16/04	7R	
030173	19-179484	BUENA VISTA ST	BUENA VISTA DISTRICT	SOUTH PASADENA	P	1900	HIST.SURV.	1030-0009-9999	01/01/78	2D	
							PROJ.REVW.	65000677	12/21/77		
+ 069357		91 BUENA VISTA ST	BUENA VISTA DISTRICT	SOUTH PASADENA	U		PROJ.REVW.	65000677	12/21/77	2S	
+ 030355	19-179664	902 BUENA VISTA ST		SOUTH PASADENA	P	1955	HIST.SURV.	1030-0056-0001	10/25/04	3D	
							PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0005	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0005		3S	
+ 030356	19-179665	910 BUENA VISTA ST	R.L. SPAYDE HOUSE	SOUTH PASADENA	P	1927	HIST.SURV.	1030-0056-0003	09/24/04	3D	
							PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0006	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0006		3S	
+ 030168	19-179479	917 BUENA VISTA ST	ALBERT SHERMAN HOYT HOUSE	SOUTH PASADENA	S	1900	HIST.SURV.	1030-0009-0001	01/01/78	2D	
+ 030357	19-179666	918 BUENA VISTA ST	JESSIE WATERMAN HOUSE	SOUTH PASADENA	P	1928	HIST.SURV.	1030-0056-0004	09/24/04	3D	
							PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0007	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0007		3S	
+ 030358	19-179667	928 BUENA VISTA ST	P.A. REID HOUSE	SOUTH PASADENA	P	1927	HIST.SURV.	1030-0056-0005	09/24/04	3D	
							PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0008	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0008		3S	
+ 030169	19-179480	929 BUENA VISTA ST	CHILDS HOUSE	SOUTH PASADENA	P	1904	HIST.SURV.	1030-0009-0002	01/01/78	2D	
+ 030359	19-179668	930 BUENA VISTA ST	DONALD E. MARQUIS HOUSE	SOUTH PASADENA	P	1930	HIST.SURV.	1030-0056-0006	09/24/04	3D	
							PROJ.REVW.	FHWA8410123A	04/13/87	2D2	AC
							HIST.RES.	DOE-19-87-0007-0009	04/13/87	2D2	AC
							HIST.SURV.	1030-0054-0009		3S	
+ 030170	19-179481	1000 BUENA VISTA ST	CHARLES P. WILLIAMS HOUSE, WILLIAM	SOUTH PASADENA	S	1903	HIST.SURV.	1030-0009-0003	01/01/78	2D	
* + 030171	19-179482	1001 BUENA VISTA ST	MRS. JAMES A. GARFIELD HOUSE	SOUTH PASADENA	P	1902	HIST.RES.	NPS-73000405-0000	04/24/73	1S	C
							HIST.SURV.	1030-0055-0000	04/24/73	1S	C
							HIST.SURV.	1030-0009-0004	01/01/73	2D	
+ 030172	19-179483	1005 BUENA VISTA ST	HOWARD LONGLEY HOUSE	SOUTH PASADENA	S	1904	HIST.SURV.	1030-0009-0005	01/01/73	2D	
+ 030307	19-179618	1133 BUENA VISTA ST	GROSSE HOUSE, TANNER HOUSE	SOUTH PASADENA	S	1910	HIST.SURV.	1030-0036-0000	01/01/83	2S2	
151095		1606 BUSHNELL AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0320-0001	12/16/04	7R	
151096		1609 BUSHNELL AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0320-0002	12/16/04	7R	
151097		1610 BUSHNELL AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0320-0003	12/16/04	7R	
151099		1615 BUSHNELL AVE		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0320-0004	12/16/04	7R	
151100		1616 BUSHNELL AVE		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0320-0005	12/16/04	7R	
151102		1618 BUSHNELL AVE		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0320-0006	12/19/04	7R	
065603		1618 BUSHNELL AVE		SOUTH PASADENA	U		PROJ.REVW.	HUD881121O	12/19/88	6Y	
151103		1621 BUSHNELL AVE		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0320-0007	12/16/04	7R	
151105		1622 BUSHNELL AVE		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0320-0008	12/16/04	7R	
151106		1623 BUSHNELL AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0320-0009	12/16/04	7R	
151107		1625 BUSHNELL AVE		SOUTH PASADENA	P	1914	HIST.SURV.	1030-0320-0010	12/16/04	7R	
151109		1628 BUSHNELL AVE		SOUTH PASADENA	P	1914	HIST.SURV.	1030-0320-0011	12/16/04	7R	

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151110		1633 BUSHNELL AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0320-0012	12/16/04	7R	
151111		1700 BUSHNELL AVE		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0320-0013	12/16/04	7R	
151113		1701 BUSHNELL AVE		SOUTH PASADENA	P	1914	HIST.SURV.	1030-0320-0014	12/16/04	7R	
151114		1704 BUSHNELL AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0320-0015	12/16/04	7R	
151115		1705 BUSHNELL AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0320-0016	12/16/04	7R	
151116		1710 BUSHNELL AVE		SOUTH PASADENA	P	1902	HIST.SURV.	1030-0320-0017	12/16/04	7R	
151117		1711 BUSHNELL AVE		SOUTH PASADENA	P	1907	HIST.SURV.	1030-0320-0018	12/16/04	7R	
151118		1712 BUSHNELL AVE		SOUTH PASADENA	P	1933	HIST.SURV.	1030-0320-0019	12/16/04	7R	
151119		1721 BUSHNELL AVE		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0320-0020	12/16/04	7R	
151120		1722 BUSHNELL AVE		SOUTH PASADENA	P	1920	HIST.SURV.	1030-0320-0021	12/16/04	7R	
151121		1727 BUSHNELL AVE		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0320-0022	12/16/04	7R	
151122		1800 BUSHNELL AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0320-0023	12/16/04	7R	
151123		1803 BUSHNELL AVE		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0320-0024	12/16/04	7R	
151124		1807 BUSHNELL AVE		SOUTH PASADENA	P	1914	HIST.SURV.	1030-0320-0025	12/16/04	7R	
151125		1809 BUSHNELL AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0320-0026	12/16/04	7R	
151126		1810 BUSHNELL AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0320-0027	12/16/04	7R	
151127		1814 BUSHNELL AVE		SOUTH PASADENA	P	1906	HIST.SURV.	1030-0320-0028	12/16/04	7R	
151128		1815 BUSHNELL AVE		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0320-0029	12/16/04	7R	
151129		1817 BUSHNELL AVE		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0320-0030	12/16/04	7R	
151130		1818 BUSHNELL AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0320-0031	12/16/04	7R	
151131		1820 BUSHNELL AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0320-0032	12/16/04	7R	
151132		1821 BUSHNELL AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0320-0033	12/16/04	7R	
109494		2000 CAMBRIDGE PL		SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-97-0002-0034	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109703		2003 CAMBRIDGE PL		SOUTH PASADENA	P	1912	HIST.RES.	DOE-19-97-0002-0035	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109704		2006 CAMBRIDGE PL		SOUTH PASADENA	P	1914	HIST.RES.	DOE-19-97-0002-0036	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109705		2007 CAMBRIDGE PL		SOUTH PASADENA	S	1950	HIST.RES.	DOE-19-97-0002-0037	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109706		2008 CAMBRIDGE PL		SOUTH PASADENA	P	1939	HIST.RES.	DOE-19-97-0002-0038	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109707		2011 CAMBRIDGE PL		SOUTH PASADENA	S	1950	HIST.RES.	DOE-19-97-0002-0039	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109717		2012 CAMBRIDGE PL		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0002-0040	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109718		2014 CAMBRIDGE PL		SOUTH PASADENA	P	1926	HIST.RES.	DOE-19-97-0002-0041	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109719		2015 CAMBRIDGE PL		SOUTH PASADENA	P	1910	HIST.RES.	DOE-19-97-0002-0042	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109826		2017 CAMBRIDGE PL		SOUTH PASADENA	P	1977	HIST.RES.	DOE-19-97-0002-0043	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109827		2020 CAMBRIDGE PL		SOUTH PASADENA	P	1910	HIST.RES.	DOE-19-97-0002-0044	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109828		2021 CAMBRIDGE PL		SOUTH PASADENA	P	1991	HIST.RES.	DOE-19-97-0002-0045	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109829		2024 CAMBRIDGE PL		SOUTH PASADENA	P	1937	HIST.RES.	DOE-19-97-0002-0046	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109830		2025 CAMBRIDGE PL		SOUTH PASADENA	P	1921	HIST.RES.	DOE-19-97-0002-0047	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109831		2029 CAMBRIDGE PL		SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-97-0002-0048	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
150414		612 CAMINO VERDE		SOUTH PASADENA	P	1967	HIST.SURV.	1030-0078-0000	12/16/04	7R	
125586		1026 CAWSTON ST		SOUTH PASADENA	U	1914	HIST.RES.	DOE-19-98-0362-0000	05/11/98	6Y	
							PROJ.REVW.	HUD980511I	05/11/98	6Y	
151020		609 CHARTER OAK ST		SOUTH PASADENA	P	1916	HIST.SURV.	1030-0319-0001	12/16/04	7R	

ROPERTY-NUMBER	PRIMARY-#	STREET.ADDRESS.....	NAMES.....	CITY.NAME.....	OWN	YR-C	OHP-PROG..	PRG-REFERENCE-NUMBER	STAT-DAT	NRS	CRIT
151021		613 CHARTER OAK ST		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0319-0002	12/16/04	7R	
151022		616 CHARTER OAK ST		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0319-0003	12/16/04	7R	
151023		620 CHARTER OAK ST		SOUTH PASADENA	P	1920	HIST.SURV.	1030-0319-0004	12/16/04	7R	
151024		622 CHARTER OAK ST		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0319-0005	12/16/04	7R	
030347	19-179656	623 CHARTER OAK ST	DRACHMANN HOUSE	SOUTH PASADENA	P	1902	HIST.SURV.	1030-0319-0006	12/16/04	7R	
							HIST.SURV.	1030-0050-0000		7R	
151027		700 CHARTER OAK ST		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0319-0007	12/16/04	7R	
151028		705 CHARTER OAK ST		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0319-0008	12/16/04	7R	
151029		707 CHARTER OAK ST		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0319-0009	12/16/04	7R	
151030		708 CHARTER OAK ST		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0319-0010	12/16/04	7R	
151031		710 CHARTER OAK ST		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0319-0011	12/16/04	7R	
151032		711 CHARTER OAK ST		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0319-0012	12/16/04	7R	
151033		714 CHARTER OAK ST		SOUTH PASADENA	P	1911	HIST.SURV.	1030-0319-0013	12/16/04	7R	
151034		715 CHARTER OAK ST		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0319-0014	12/16/04	7R	
066494		717 CHARTER OAK ST		SOUTH PASADENA	U		PROJ.REVW.	HUD880208M	03/16/88	6Y	
177045		1200 CHELTEN WY		SOUTH PASADENA	P	1958	HIST.SURV.	1030-0321-0011	11/01/04	5D1	
177046		1215 CHELTEN WY	RICHARD DOBBINS HOUSE	SOUTH PASADENA	P	1924	HIST.SURV.	1030-0321-0012	11/01/04	3B	
177047		1219 CHELTEN WY		SOUTH PASADENA	P	1950	HIST.SURV.	1030-0321-0013	11/01/04	5D1	
177048		1222 CHELTEN WY		SOUTH PASADENA	P	1949	HIST.SURV.	1030-0321-0014	11/01/04	5D1	
177049		1225 CHELTEN WY		SOUTH PASADENA	P	1954	HIST.SURV.	1030-0321-0015	11/01/04	3D	
177050		1300 CHELTEN WY		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0321-0016	11/01/04	3D	
030189	19-179500	1311 CHELTEN WY	SEYMOUR HOUSE	SOUTH PASADENA	P	1911	HIST.SURV.	1030-0321-0018	11/01/04	3B	
							HIST.SURV.	1030-0011-0000		3S	
177052		1315 CHELTEN WY		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0321-0019	11/01/04	3D	
150417		1510 CHETLEN WY		SOUTH PASADENA	P	1914	HIST.SURV.	1030-0079-0000	12/16/04	7R	
150418		1845 CLARK PL		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0080-0000	12/16/04	7R	
150420		COLUMBIA ST		SOUTH PASADENA	P	1938	HIST.SURV.	1030-0082-0000	12/16/04	7R	
150419		500 COLUMBIA ST		SOUTH PASADENA	P	1954	HIST.SURV.	1030-0081-0000	12/16/04	7R	
+ 030190	19-179501	919 COLUMBIA ST	J. R. RIGGINS HOUSE	SOUTH PASADENA	P	1887	HIST.SURV.	1030-0012-0000	01/01/77	7N	
							HIST.SURV.	1030-0044-0000	10/18/85	3S	
							PROJ.REVW.	FHWA841023A	09/17/86	2	C
099589		1001 COLUMBIA ST	F. O. MILLER HOUSE	SOUTH PASADENA	P	1931	HIST.RES.	DOE-19-95-0013-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099590		1007 COLUMBIA ST	MRS. W.S. CHARNLEY HOUSE	SOUTH PASADENA	P	1934	HIST.RES.	DOE-19-95-0014-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
+ 030300	19-179611	1109 COLUMBIA ST	STONE/BROOKS HOUSE	SOUTH PASADENA	S	1909	HIST.SURV.	1030-0029-0000	08/31/82	7K	
							HIST.RES.	DOE-19-83-0016-0079	11/20/95	2D2	AC
							PROJ.REVW.	FHWA830201A	02/28/83	2D2	AC
098614		1115 COLUMBIA ST		SOUTH PASADENA	P	1907	HIST.RES.	DOE-19-83-0016-0080	03/31/83	6Y	
							PROJ.REVW.	FHWA830201A	02/28/83	6Y	
+ 030301	19-179612	1127 COLUMBIA ST	HENRY STEPHEN BOICE HOUSE	SOUTH PASADENA	S	1908	HIST.SURV.	1030-0030-0000	01/01/83	7K	
							HIST.RES.	DOE-19-83-0016-0041	11/20/95	2D2	AC
							PROJ.REVW.	FHWA830201A	02/28/83	2D2	AC
+ 030302	19-179613	1131 COLUMBIA ST		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0031-0000	01/01/83	7K	
							HIST.RES.	DOE-19-83-0016-0081	03/31/83	2D2	AC
							PROJ.REVW.	FHWA830201A	02/28/83	2D2	AC
150432		1545 COLUMBIA ST		SOUTH PASADENA	P	1948	HIST.SURV.	1030-0083-0000	12/16/04	7R	
150436		DIAMOND AVE	1400 BLOCK OF DIAMOND AVENUE	SOUTH PASADENA	P	1907	HIST.SURV.	1030-0086-0000	12/16/04	7R	
030193	19-179504	905 DIAMOND AVE	SOUTH PASADENA FIRST NATIONAL BANK	SOUTH PASADENA	P	1907	HIST.SURV.	1030-0013-0003	01/01/83	1D	
150434		1212 DIAMOND AVE		SOUTH PASADENA	P	1894	HIST.SURV.	1030-0084-0000	12/16/04	7R	
150435		1217 DIAMOND AVE		SOUTH PASADENA	P	1906	HIST.SURV.	1030-0085-0000	12/16/04	7R	
030212	19-179523	1327 DIAMOND AVE	SOUTH PASADENA HIGH SCHOOL ADMIN B	SOUTH PASADENA	D	1925	HIST.SURV.	1030-0018-0000		3S	
066716		1512 DIAMOND AVE		SOUTH PASADENA	U		PROJ.REVW.	HUD880616D	07/18/88	6Y	
150437		335 EL CENTRO ST		SOUTH PASADENA		1939	HIST.SURV.	1030-0087-0000	12/16/04	7R	
* + 030202	19-179513	1019 EL CENTRO ST	SOUTH PASADENA BANK BUILDING	SOUTH PASADENA	P	1903	HIST.SURV.	1030-0013-0012	01/01/83	1D	
* + 030200	19-179511	1020 EL CENTRO ST	EL CENTRO SCHOOL	SOUTH PASADENA	D	1928	HIST.SURV.	1030-0013-0010	01/01/83	1D	

PROPERTY-NUMBER	PRIMARY-#	STREET.ADDRESS.....	NAMES.....	CITY.NAME.....	OWN	YR-C	OHP-PROG..	PRG-REFERENCE-NUMBER	STAT-DAT	NRS	CRIT
✱✝030201	19-179512	1115 EL CENTRO ST	SOUTH PASADENA PUBLIC LIBRARY	SOUTH PASADENA	M	1930	PROJ.REVW.	FEMA970909A	09/16/97	7K	
							HIST.SURV.	1030-0013-0011	07/21/82	1D	BC
150438		1412 EL CENTRO ST		SOUTH PASADENA	P	1905	HIST.SURV.	1030-0088-0000	12/16/04	7R	
150448		FAIR OAKS AVE	1600 BLOCK OF FAIR OAKS AVENUE	SOUTH PASADENA	P	1905	HIST.SURV.	1030-0096-0000	12/16/04	7R	
151002		FAIR OAKS AVE	1100 BLOCK OF FAIR OAKS AVENUE	SOUTH PASADENA		1922	HIST.SURV.	1030-0318-9999	12/16/04	7R	
150988		FAIR OAKS AVE	1000 BLOCK OF FAIR OAKS DISTRICT	SOUTH PASADENA		1917	HIST.SURV.	1030-0317-9999	12/16/04	7R	
030165	19-179476	FAIR OAKS AVE	RAYMOND HILL WAITING STATION	SOUTH PASADENA	M	1902	HIST.SURV.	1030-0006-0000		3S	
✝030211	19-179522	435 FAIR OAKS AVE	WAR MEMORIAL BUILDING	SOUTH PASADENA	M	1922	HIST.RES.	DOE-19-94-0663-0000	07/18/94	2S2	
							PROJ.REVW.	HUD940509J	07/18/94	2S2	
							HIST.SURV.	1030-0017-0000		3S	
150441		501 FAIR OAKS AVE		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0089-0000	12/16/04	7R	
150442		800 FAIR OAKS AVE		SOUTH PASADENA	P	1911	HIST.SURV.	1030-0090-0000	12/16/04	7R	
150443		824 FAIR OAKS AVE		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0091-0000	12/16/04	7R	
150996		1005 FAIR OAKS AVE		SOUTH PASADENA	P	1934	HIST.SURV.	1030-0317-0002	12/16/04	7R	
150990		1008 FAIR OAKS AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0317-0001	12/16/04	7R	
150998		1009 FAIR OAKS AVE		SOUTH PASADENA	P	1938	HIST.SURV.	1030-0317-0003	12/16/04	7R	
150999		1016 FAIR OAKS AVE		SOUTH PASADENA	P	1938	HIST.SURV.	1030-0317-0004	12/16/04	7R	
✱✝030210	19-179521	1019 FAIR OAKS AVE	RIALTO THEATER	SOUTH PASADENA	P	1925	HIST.SURV.	1030-0317-0005	12/16/04	7R	
							HIST.RES.	NPS-78000700-0000	05/24/78	1S	
							HIST.SURV.	1030-0016-0000	05/24/78	1S	
151001		1020 FAIR OAKS AVE		SOUTH PASADENA	P	1917	HIST.SURV.	1030-0317-0006	12/16/04	7R	
151003		1100 FAIR OAKS AVE		SOUTH PASADENA	P	1937	HIST.SURV.	1030-0318-0001	12/16/04	7R	
151004		1106 FAIR OAKS AVE		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0318-0002	12/16/04	7R	
151007		1114 FAIR OAKS AVE		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0318-0003	12/16/04	7R	
151008		1118 FAIR OAKS AVE		SOUTH PASADENA	P	1930	HIST.SURV.	1030-0318-0004	12/16/04	7R	
151009		1132 FAIR OAKS AVE		SOUTH PASADENA	P	1936	HIST.SURV.	1030-0318-0005	12/16/04	7R	
151011		1134 FAIR OAKS AVE		SOUTH PASADENA	P	1936	HIST.SURV.	1030-0318-0006	12/16/04	7R	
150444		1401 FAIR OAKS AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0092-0000	12/16/04	7R	
150445		1411 FAIR OAKS AVE		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0093-0000	12/16/04	7R	
146196		1414 FAIR OAKS AVE	COMMUNITIES FACILITIES PLANNERS -	SOUTH PASADENA		1958	HIST.SURV.	1030-0095-0000	12/16/04	7R	
							NAT.REG.	19-0450	05/03/04	7W	
150446		1500 FAIR OAKS AVE		SOUTH PASADENA		1928	HIST.SURV.	1030-0094-0000	12/16/04	7R	
150450		1600 FAIR OAKS AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0097-0000	12/16/04	7R	
150451		1714 FAIR OAKS AVE		SOUTH PASADENA	P	1940	HIST.SURV.	1030-0098-0000	12/16/04	7R	
150452		1801 FAIR OAKS AVE		SOUTH PASADENA		1905	HIST.SURV.	1030-0099-0000	12/16/04	7R	
081625		1126 FAIRVIEW AVE		SOUTH PASADENA	U	1919	PROJ.REVW.	HUD871027C	08/29/89	6Y	
151136		1601 FLETCHER AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0320-0035	12/16/04	7R	
151134		1611 FLETCHER AVE		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0320-0034	12/16/04	7R	
151137		1614 FLETCHER AVE		SOUTH PASADENA	P	1919	HIST.SURV.	1030-0320-0036	12/16/04	7R	
151139		1615 FLETCHER AVE		SOUTH PASADENA	P	1919	HIST.SURV.	1030-0320-0037	12/16/04	7R	
151140		1619 FLETCHER AVE		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0320-0038	12/16/04	7R	
151142		1623 FLETCHER AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0320-0039	12/16/04	7R	
151143		1625 FLETCHER AVE		SOUTH PASADENA	P	1911	HIST.SURV.	1030-0320-0040	12/16/04	7R	
151144		1626 FLETCHER AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0320-0041	12/16/04	7R	
151146		1631 FLETCHER AVE		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0320-0042	12/16/04	7R	
151149		1632 FLETCHER AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0320-0043	12/16/04	7R	
151150		1700 FLETCHER AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0320-0044	12/16/04	7R	
151152		1703 FLETCHER AVE		SOUTH PASADENA	P	1911	HIST.SURV.	1030-0320-0045	12/16/04	7R	
151153		1705 FLETCHER AVE		SOUTH PASADENA	P	1913	HIST.SURV.	1030-0320-0046	12/16/04	7R	
151154		1708 FLETCHER AVE		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0320-0047	12/16/04	7R	
151155		1710 FLETCHER AVE		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0320-0048	12/16/04	7R	
151156		1711 FLETCHER AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0320-0049	12/16/04	7R	
151157		1714 FLETCHER AVE		SOUTH PASADENA	P	1914	HIST.SURV.	1030-0320-0050	12/16/04	7R	
180319		1826 FLETCHER AVE	T-MOBILE IE2484F/FLETCHER	SOUTH PASADENA	P	1923	PROJ.REVW.	FCC100607C	11/09/10	6Y	
154761		1131 FOOTHILL ST		SOUTH PASADENA		1904	PROJ.REVW.	HUD050627E	07/15/05	6U	
✱✝030305	19-179616	1804 FOOTHILL ST	ADOBE FLORES/LA CASA DE JOSE PEREZ	SOUTH PASADENA	P	1840	HIST.RES.	NPS-73000404-0000	06/18/73	1S	

PROPERTY-NUMBER	PRIMARY-#	STREET.ADDRESS.....	NAMES.....	CITY.NAME.....	OWN	YR-C	OHP-PROG..	PRG-REFERENCE-NUMBER	STAT-DAT	NRS	CRIT
							HIST.SURV.	1030-0034-0000	01/01/73	1S	
151035		636 FOREST AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0319-0015	12/16/04	7R	
151037		641 FOREST AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0319-0016	12/16/04	7R	
151038		644 FOREST AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0319-0017	12/16/04	7R	
151039		649 FOREST AVE		SOUTH PASADENA	P	1938	HIST.SURV.	1030-0319-0018	12/16/04	7R	
151040		651 FOREST AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0319-0019	12/16/04	7R	
151041		652 FOREST AVE		SOUTH PASADENA	P		HIST.SURV.	1030-0319-0020	12/16/04	7R	
151042		655 FOREST AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0319-0021	12/16/04	7R	
151044		657 FOREST AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0319-0022	12/16/04	7R	
151045		660 FOREST AVE		SOUTH PASADENA	P	1893	HIST.SURV.	1030-0319-0023	12/16/04	7R	
151046		661 FOREST AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0319-0024	12/16/04	7R	
151047		665 FOREST AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0319-0025	12/16/04	7R	
150453		800 FOREST AVE		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0100-0000	12/16/04	7R	
150455		801 FOREST AVE		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0101-0000	12/16/04	7R	
150456		809 FOREST AVE		SOUTH PASADENA	P	1929	HIST.SURV.	1030-0102-0000	12/16/04	7R	
150465		1001 FREEMONT AVE	UNITED STATES POST OFFICE	SOUTH PASADENA	P	1935	HIST.SURV.	1030-0106-0000	12/16/04	7R	
150466		1050 FREEMONT AVE	CALVARY PRESBYTERIAN CHURCH	SOUTH PASADENA		1924	HIST.SURV.	1030-0107-0000	12/16/04	7R	
150467		1501 FREEMONT AVE		SOUTH PASADENA		1927	HIST.SURV.	1030-0108-0000	12/16/04	7R	
150468		1524 FREEMONT AVE		SOUTH PASADENA		1922	HIST.SURV.	1030-0109-0000	12/16/04	7R	
150469		1527 FREEMONT AVE		SOUTH PASADENA		1998	HIST.SURV.	1030-0110-0000	12/16/04	7R	
150470		1600 FREEMONT AVE		SOUTH PASADENA	P	1939	HIST.SURV.	1030-0111-0000	12/16/04	7R	
150471		1617 FREEMONT AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0112-0000	12/16/04	7R	
150472		1701 FREEMONT AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0113-0000	12/16/04	7R	
150473		1718 FREEMONT AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0114-0000	12/16/04	7R	
150474		1821 FREEMONT AVE		SOUTH PASADENA	P	1929	HIST.SURV.	1030-0115-0000	12/16/04	7R	
150478		1827 FREEMONT AVE		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0119-0000	12/16/04	7R	
150475		1903 FREEMONT AVE		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0116-0000	12/16/04	7R	
150476		1909 FREEMONT AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0117-0000	12/16/04	7R	
150477		1941 FREEMONT AVE		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0118-0000	12/16/04	7R	
150479		2000 FREEMONT AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0120-0000	12/16/04	7R	
150480		2008 FREEMONT AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0121-0000	12/16/04	7R	
150481		2012 FREEMONT AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0122-0000	12/16/04	7R	
150482		2016 FREEMONT AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0123-0000	12/16/04	7R	
150483		2020 FREEMONT AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0124-0000	12/16/04	7R	
150484		2031 FREEMONT AVE		SOUTH PASADENA	P	1950	HIST.SURV.	1030-0125-0000	12/16/04	7R	
150485		2040 FREEMONT AVE		SOUTH PASADENA	P	1928	HIST.SURV.	1030-0126-0000	12/16/04	7R	
150486		2042 FREEMONT AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0127-0000	12/16/04	7R	
150487		2070 FREEMONT AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0128-0000	12/16/04	7R	
+030218	19-179529	221 FREMONT AVE	SHERRY HOUSE	SOUTH PASADENA	S	1912	HIST.SURV.	1030-0024-0000	01/01/83	2S2	
							PROJ.REVW.	65001017	03/31/78		
125583		319 FREMONT AVE		SOUTH PASADENA	U	1935	HIST.RES.	DOE-19-98-0359-0000	05/11/98	6Y	
							PROJ.REVW.	HUD980511I	05/11/98	6Y	
030209	19-179520	920 FREMONT AVE	FREMONT AVENUE BRETHERN CHURCH, CA	SOUTH PASADENA	P	1886	HIST.SURV.	1030-0015-0000		3S	
150458		501 FREMONT LANE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0103-0000	12/16/04	7R	
150459		923 FREMONT LANE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0104-0000	12/16/04	7R	
150460		1000 FREMONT LANE		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0105-0000	12/16/04	7R	
150488		505 GARFIELD AVE		SOUTH PASADENA	P	1981	HIST.SURV.	1030-0129-0000	12/16/04	7R	
150489		1114 GARFIELD AVE		SOUTH PASADENA	P	1919	HIST.SURV.	1030-0130-0000	12/16/04	7R	
150490		1128 GARFIELD AVE		SOUTH PASADENA	P	1906	HIST.SURV.	1030-0131-0000	12/16/04	7R	
150491		1129 GARFIELD AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0132-0000	12/16/04	7R	
150492		1148 GARFIELD AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0133-0000	12/16/04	7R	
177061		1205 GARFIELD AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0321-0020	11/01/04	3D	
177062		1215 GARFIELD AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0321-0021	11/01/04	3B	
177063		1233 GARFIELD AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0321-0022	11/01/04	3D	
177064		1305 GARFIELD AVE	ALBERT MARSH HOUSE/SECRET GARDEN H	SOUTH PASADENA	P	1917	HIST.SURV.	1030-0321-0023	11/01/04	3B	
177065		1313 GARFIELD AVE		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0321-0024	11/01/04	3D	

ROPERTY-NUMBER	PRIMARY-#	STREET.ADDRESS.....	NAMES.....	CITY.NAME.....	OWN	YR-C	OHP-PROG..	PRG-REFERENCE-NUMBER	STAT-DAT	NRS	CRIT
177066		1339 GARFIELD AVE		SOUTH PASADENA	P	1964	HIST.SURV.	1030-0321-0025	11/01/04	5D1	
177067		1403 GARFIELD AVE		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0321-0026	11/01/04	3D	
177068		1407 GARFIELD AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0321-0027	11/01/04	3D	
177069		1423 GARFIELD AVE		SOUTH PASADENA	P	1929	HIST.SURV.	1030-0321-0028	11/01/04	3D	
150493		1515 GARFIELD AVE		SOUTH PASADENA	P	1949	HIST.SURV.	1030-0134-0000	12/16/04	7R	
150494		1300 GATES PL		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0135-0000	12/16/04	7R	
150495		1304 GATES PL		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0136-0000	12/16/04	7R	
150496		1324 GATES PL		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0137-0000	12/16/04	7R	
107587		GILLETTE CRESCENT	GILLETTE CRESCENT NEIGHBORHOOD HIS	SOUTH PASADENA	PS	1923	HIST.RES.	DOE-19-97-0001-9999	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
107473		1708 GILLETTE CRESCENT		SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-97-0001-0004	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
104660		1708 GILLETTE CRESCENT		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0059	11/05/96	7M	
099592		1709 GILLETTE CRESCENT	THOR PETERSON HOUSE	SOUTH PASADENA	P	1926	HIST.RES.	DOE-19-97-0001-0005	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0058	11/05/96	7M	
							HIST.RES.	DOE-19-95-0015-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099593		1712 GILLETTE CRESCENT	FLORANBELL CT	SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0006	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0060	11/05/96	7M	
							HIST.RES.	DOE-19-95-0016-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099594		1713 GILLETTE CRESCENT	E. M. LINN HOUSE	SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0007	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0061	11/05/96	7M	
							HIST.RES.	DOE-19-95-0017-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
107476		1715 GILLETTE CRESCENT		SOUTH PASADENA	P	1928	HIST.RES.	DOE-19-97-0001-0008	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
104668		1716 GILLETTE CRESCENT		SOUTH PASADENA	P	1946	HIST.RES.	DOE-19-97-0001-0009	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0062	11/05/96	7M	
107478		1718 GILLETTE CRESCENT	JOE AND HELEN SELDEN RESIDENCE	SOUTH PASADENA	P	1947	HIST.RES.	DOE-19-97-0001-0010	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
099596		1719 GILLETTE CRESCENT	H.A. ARMSTRONG HOUSE	SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0011	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0063	11/05/96	7M	
							HIST.RES.	DOE-19-95-0018-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099597		1720 GILLETTE CRESCENT	MRS. JEAN L. TRAUGOTT	SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-97-0001-0012	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0064	11/05/96	7M	
							HIST.RES.	DOE-19-95-0019-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
104673		1722 GILLETTE CRESCENT		SOUTH PASADENA	S	1947	HIST.RES.	DOE-19-97-0001-0013	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0065	11/05/96	7M	
104676		1723 GILLETTE CRESCENT		SOUTH PASADENA	P	1926	HIST.RES.	DOE-19-97-0001-0014	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0066	11/05/96	7M	
104677		1724 GILLETTE CRESCENT		SOUTH PASADENA	S	1924	HIST.RES.	DOE-19-97-0001-0015	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0067	11/05/96	7M	
104678		1732 GILLETTE CRESCENT		SOUTH PASADENA	S	1929	HIST.RES.	DOE-19-97-0001-0016	02/24/97	6Y	

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							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0068	11/05/96	7M	
104679		1740 GILLETTE CRESCENT		SOUTH PASADENA	P	1940	HIST.RES.	DOE-19-97-0001-0017	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0069	11/05/96	7M	
104680		1750 GILLETTE CRESCENT		SOUTH PASADENA	P	1973	HIST.RES.	DOE-19-97-0001-0018	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0070	11/05/96	7M	
104681		1754 GILLETTE CRESCENT		SOUTH PASADENA	P	1929	HIST.SURV.	1109-1815-0071	11/05/96	7M	
107495		1756 GILLETTE CRESCENT		SOUTH PASADENA	P	1929	HIST.RES.	DOE-19-97-0001-0019	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
104682		1800 GILLETTE CRESCENT		SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-97-0001-0020	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0072	11/05/96	7M	
104683		1804 GILLETTE CRESCENT		SOUTH PASADENA	S	1924	HIST.RES.	DOE-19-97-0001-0021	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0073	11/05/96	7M	
104684		1808 GILLETTE CRESCENT		SOUTH PASADENA	P	1926	HIST.RES.	DOE-19-97-0001-0022	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0074	11/05/96	7M	
104686		1809 GILLETTE CRESCENT		SOUTH PASADENA	P	1930	HIST.RES.	DOE-19-97-0001-0023	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0075	11/05/96	7M	
104688		1812 GILLETTE CRESCENT		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0024	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0076	11/05/96	7M	
104691		1815 GILLETTE CRESCENT		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0025	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0077	11/05/96	7M	
104693		1816 GILLETTE CRESCENT		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0026	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0078	11/05/96	7M	
104695		1819 GILLETTE CRESCENT		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0027	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0079	11/05/96	7M	
104698		1820 GILLETTE CRESCENT		SOUTH PASADENA	P	1949	HIST.RES.	DOE-19-97-0001-0028	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0080	11/05/96	7M	
107547		1822 GILLETTE CRESCENT		SOUTH PASADENA	P	1951	HIST.RES.	DOE-19-97-0001-0029	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	6Y	
104699		1823 GILLETTE CRESCENT		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0030	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0081	11/05/96	7M	
104701		1824 GILLETTE CRESCENT		SOUTH PASADENA	P	1953	HIST.RES.	DOE-19-97-0001-0031	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0082	11/05/96	7M	
104703		1828 GILLETTE CRESCENT		SOUTH PASADENA	P	1938	HIST.RES.	DOE-19-97-0001-0033	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0083	11/05/96	7M	
104705		1829 GILLETTE CRESCENT		SOUTH PASADENA	P	1936	HIST.RES.	DOE-19-97-0001-0032	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0084	11/05/96	7M	
104707		1832 GILLETTE CRESCENT		SOUTH PASADENA	S	1924	HIST.RES.	DOE-19-97-0001-0034	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0085	11/05/96	7M	
104709		1833 GILLETTE CRESCENT		SOUTH PASADENA	P	1946	HIST.RES.	DOE-19-97-0001-0036	02/24/97	6Y	

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							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0086	11/05/96	7M	
104711		1839 GILLETTE CRESCENT		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0037	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0087	11/05/96	7M	
099598		1107 GLENDON CT		SOUTH PASADENA	P	1914	HIST.RES.	DOE-19-95-0020-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099599		1112 GLENDON CT		SOUTH PASADENA	P	1912	HIST.RES.	DOE-19-95-0021-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099600		1115 GLENDON CT	E. N. THOMAS HOUSE	SOUTH PASADENA	P	1912	HIST.RES.	DOE-19-95-0022-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099602		1117 GLENDON CT		SOUTH PASADENA	P	1912	HIST.RES.	DOE-19-95-0024-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099601		1116 GLENDON ST		SOUTH PASADENA	P	1910	HIST.RES.	DOE-19-95-0023-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
+030288	19-179599	1013 GLENDON WY		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0028-0038	01/01/83	2D2	
+030277	19-179588	1014 GLENDON WY		SOUTH PASADENA	P	1885	HIST.SURV.	1030-0028-0027	01/01/83	2D2	
030289	19-179600	1019 GLENDON WY		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0028-0039	01/01/83	7R	
+030290	19-179601	1021 GLENDON WY		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0028-0040	01/01/83	2D2	
+030278	19-179589	1024 GLENDON WY		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0028-0028	01/01/83	2D2	
+030291	19-179602	1027 GLENDON WY		SOUTH PASADENA	P	1885	HIST.SURV.	1030-0028-0041	01/01/83	2D2	
+030279	19-179590	1028 GLENDON WY		SOUTH PASADENA	P	1907	HIST.SURV.	1030-0028-0029	01/01/83	2D2	
+030292	19-179603	1101 GLENDON WY		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0028-0042	01/01/83	2D2	
+030280	19-179591	1102 GLENDON WY		SOUTH PASADENA	P	1893	HIST.SURV.	1030-0028-0030	01/01/83	2D2	
+030293	19-179604	1105 GLENDON WY		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0028-0043	01/01/83	2D2	
+030281	19-179592	1110 GLENDON WY		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0028-0031	01/01/83	2D2	
+030294	19-179605	1111 GLENDON WY		SOUTH PASADENA	P	1906	HIST.SURV.	1030-0028-0044	01/01/83	2D2	
+030282	19-179593	1112 GLENDON WY		SOUTH PASADENA	P	1919	HIST.SURV.	1030-0028-0032	01/01/83	2D2	
030283	19-179594	1114 GLENDON WY		SOUTH PASADENA	P	1920	HIST.SURV.	1030-0028-0033		7R	
+030295	19-179606	1115 GLENDON WY		SOUTH PASADENA	P	1905	HIST.SURV.	1030-0028-0045	01/01/83	2D2	
+030284	19-179595	1118 GLENDON WY		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0028-0034	01/01/83	2D2	
+030296	19-179607	1119 GLENDON WY		SOUTH PASADENA	P	1895	HIST.SURV.	1030-0028-0046	01/01/83	2D2	
+030297	19-179608	1123 GLENDON WY		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0028-0047	01/01/83	2D2	
066535		1125 GLENDON WY		SOUTH PASADENA	U		PROJ.REVW.	HUD880226P	04/06/88	6Y	
+030285	19-179596	1126 GLENDON WY		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0028-0035	01/01/83	2D2	
030286	19-179597	1130 GLENDON WY		SOUTH PASADENA	P	1905	HIST.SURV.	1030-0028-0036		7R	
+030298	19-179609	1133 GLENDON WY		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0028-0048	01/01/83	2D2	
030287	19-179598	1136 GLENDON WY		SOUTH PASADENA	P	1920	HIST.SURV.	1030-0028-0037		7R	
150497		208 GRAND AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0138-0000	12/16/04	7R	
030216	19-179527	225 GRAND AVE	TANNER HOUSE	SOUTH PASADENA	P	1916	HIST.SURV.	1030-0022-0000	01/01/99	3S	
030348	19-179657	605 GRAND AVE	GROETZINGER HOUSE, RUDDOCK HOUSE	SOUTH PASADENA	P	1930	HIST.SURV.	1030-0051-0000		7R	
151048		626 GRAND AVE		SOUTH PASADENA	P	1917	HIST.SURV.	1030-0319-0026	12/16/04	7R	
030349	19-179658	629 GRAND AVE		SOUTH PASADENA	P	1890	HIST.SURV.	1030-0319-0027	12/16/04	7R	
							HIST.SURV.	1030-0052-0000		7R	
151049		634 GRAND AVE		SOUTH PASADENA	P	1928	HIST.SURV.	1030-0319-0028	12/16/04	7R	
151050		637 GRAND AVE		SOUTH PASADENA	P	1890	HIST.SURV.	1030-0319-0029	12/16/04	7R	
151051		640 GRAND AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0319-0030	12/16/04	7R	
151052		644 GRAND AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0319-0031	12/16/04	7R	
151053		649 GRAND AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0319-0032	12/16/04	7R	
151054		658 GRAND AVE		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0319-0033	12/16/04	7R	
151055		700 GRAND AVE		SOUTH PASADENA	P	1930	HIST.SURV.	1030-0319-0034	12/16/04	7R	
151056		701 GRAND AVE		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0319-0035	12/16/04	7R	
151057		705 GRAND AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0319-0036	12/16/04	7R	
151058		706 GRAND AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0319-0037	12/16/04	7R	
151059		709 GRAND AVE		SOUTH PASADENA	P	1930	HIST.SURV.	1030-0319-0038	12/16/04	7R	
151060		710 GRAND AVE		SOUTH PASADENA	P		HIST.SURV.	1030-0319-0039	12/16/04	7R	

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151061		716 GRAND AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0319-0040	12/16/04	7R	
151062		801 GRAND AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0319-0041	12/16/04	7R	
151063		802 GRAND AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0319-0042	12/16/04	7R	
151064		807 GRAND AVE		SOUTH PASADENA	P	1920	HIST.SURV.	1030-0319-0043	12/16/04	7R	
151065		808 GRAND AVE		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0319-0044	12/16/04	7R	
151066		809 GRAND AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0319-0045	12/16/04	7R	
153864		1103 GREVELIA ST		SOUTH PASADENA		1900	PROJ.REVW.	HUD040329B	04/21/04	6U	
150498		1704 HANSCOM DR		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0139-0000	12/16/04	7R	
150499		304 HAWTHORNE ST		SOUTH PASADENA	P	1914	HIST.SURV.	1030-0140-0000	12/16/04	7R	
150500		314 HAWTHORNE ST		SOUTH PASADENA	P	1890	HIST.SURV.	1030-0141-0000	12/16/04	7R	
150711		320 HAWTHORNE ST		SOUTH PASADENA	P	1885	HIST.SURV.	1030-0142-0000	12/16/04	7R	
150712		340 HAWTHORNE ST		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0143-0000	12/16/04	7R	
066533		525 HERMOSA ST		SOUTH PASADENA	U	1905	HIST.RES.	DOE-19-98-0379-0000	08/21/98	6Y	
							PROJ.REVW.	HUD980821J	08/21/98	6Y	
							PROJ.REVW.	HUD880226N	04/06/88	6Y	
150713		528 HERMOSA ST		SOUTH PASADENA	P	1948	HIST.SURV.	1030-0144-0000	12/16/04	7R	
150714		709 HERMOSA ST		SOUTH PASADENA	P	1913	HIST.SURV.	1030-0145-0000	12/16/04	7R	
030344	19-179653	1002 HIGHLAND ST		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0047-0000		7R	
030345	19-179654	1004 HIGHLAND ST		SOUTH PASADENA	P	1918	HIST.SURV.	1030-0048-0000		7R	
125694		1728 HILL DR		SOUTH PASADENA	U	1929	HIST.RES.	DOE-19-98-0384-0000	08/21/98	6Y	
							PROJ.REVW.	HUD980821J	08/21/98	6Y	
150715		1899 HILL DR		SOUTH PASADENA	P	1906	HIST.SURV.	1030-0146-0000	12/16/04	7R	
153865		715 HOPE CT		SOUTH PASADENA		1916	PROJ.REVW.	HUD040329B	04/21/04	6U	
150716		1614 HOPE ST		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0147-0000	12/16/04	7R	
125585		1851 HOPE ST		SOUTH PASADENA	U	1936	HIST.RES.	DOE-19-98-0361-0000	05/11/98	6Y	
							PROJ.REVW.	HUD98051I	05/11/98	6Y	
150717		1107 HUNTINGTON DR		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0148-0000	12/16/04	7R	
150718		1139 HUNTINGTON DR		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0149-0000	12/16/04	7R	
150719		1140 HUNTINGTON DR		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0150-0000	12/16/04	7R	
150720		1147 HUNTINGTON DR		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0151-0000	12/16/04	7R	
150721		1160 HUNTINGTON DR		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0152-0000	12/16/04	7R	
150722		1171 HUNTINGTON DR		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0153-0000	12/16/04	7R	
150723		1206 HUNTINGTON DR		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0154-0000	12/16/04	7R	
150724		1226 HUNTINGTON DR		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0155-0000	12/16/04	7R	
150725		1301 HUNTINGTON DR		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0156-0000	12/16/04	7R	
150726		1321 HUNTINGTON DR		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0157-0000	12/16/04	7R	
150727		1521 HUNTINGTON DR		SOUTH PASADENA	P	1938	HIST.SURV.	1030-0158-0000	12/16/04	7R	
150728		1601 HUNTINGTON DR		SOUTH PASADENA	P	1936	HIST.SURV.	1030-0159-0000	12/16/04	7R	
150729		1611 HUNTINGTON DR		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0160-0000	12/16/04	7R	
150730		1612 HUNTINGTON DR		SOUTH PASADENA	P	1929	HIST.SURV.	1030-0161-0000	12/16/04	7R	
150731		1616 HUNTINGTON DR		SOUTH PASADENA	P	1929	HIST.SURV.	1030-0162-0000	12/16/04	7R	
150732		1620 HUNTINGTON DR		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0163-0000	12/16/04	7R	
150734		1624 HUNTINGTON DR		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0164-0000	12/16/04	7R	
150735		1636 HUNTINGTON DR	STONE WALL	SOUTH PASADENA	P	1920	HIST.SURV.	1030-0165-0000	12/16/04	7R	
150736		1645 HUNTINGTON DR	STONE WALL	SOUTH PASADENA			HIST.SURV.	1030-0166-0000	12/16/04	7R	
150737		1720 HUNTINGTON DR		SOUTH PASADENA	P	1928	HIST.SURV.	1030-0167-0000	12/16/04	7R	
150738		1724 HUNTINGTON DR		SOUTH PASADENA	P	1928	HIST.SURV.	1030-0168-0000	12/16/04	7R	
150739		1801 HUNTINGTON DR		SOUTH PASADENA	P	1945	HIST.SURV.	1030-0169-0000	12/16/04	7R	
150740		1829 HUNTINGTON DR		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0170-0000	12/16/04	7R	
150741		1835 HUNTINGTON DR		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0171-0000	12/16/04	7R	
150742		1916 HUNTINGTON DR		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0172-0000	12/16/04	7R	
150748		1922 HUNTINGTON DR		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0173-0000	12/16/04	7R	
150749		1929 HUNTINGTON DR		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0174-0000	12/16/04	7R	
150751		1938 HUNTINGTON DR		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0175-0000	12/16/04	7R	
150752		1949 HUNTINGTON DR		SOUTH PASADENA	P	1905	HIST.SURV.	1030-0176-0000	12/16/04	7R	
150753		2008 HUNTINGTON DR		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0177-0000	12/16/04	7R	

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150754		2012 HUNTINGTON DR		SOUTH PASADENA	P	1930	HIST.SURV.	1030-0178-0000	12/16/04	7R	
150755		2101 HUNTINGTON DR		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0179-0000	12/16/04	7R	
125686		1020 INDIANA AVE		SOUTH PASADENA	U	1921	HIST.RES.	DOE-19-98-0376-0000	08/21/98	6Y	
							PROJ.REVW.	HUD980821J	08/21/98	6Y	
153866		1026 INDIANA AVE		SOUTH PASADENA		1922	PROJ.REVW.	HUD040329B	04/21/04	6U	
125584		1030 INDIANA AVE		SOUTH PASADENA	U	1921	HIST.RES.	DOE-19-98-0360-0000	05/11/98	6Y	
							PROJ.REVW.	HUD980511I	05/11/98	6Y	
150757		1102 INDIANA AVE		SOUTH PASADENA	P	1904	HIST.SURV.	1030-0180-0000	12/16/04	7R	
150758		1105 INDIANA AVE		SOUTH PASADENA	P	1900	HIST.SURV.	1030-0181-0000	12/16/04	7R	
150759		1209 INDIANA AVE		SOUTH PASADENA			HIST.SURV.	1030-0182-0000	12/16/04	7R	
150763		1215 INDIANA AVE		SOUTH PASADENA	P	1911	HIST.SURV.	1030-0183-0000	12/16/04	7R	
150765		1320 INDIANA AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0184-0000	12/16/04	7R	
150766		1323 INDIANA AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0185-0000	12/16/04	7R	
150767		1324 INDIANA AVE		SOUTH PASADENA	P	1929	HIST.SURV.	1030-0186-0000	12/16/04	7R	
150768		1335 INDIANA AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0187-0000	12/16/04	7R	
150769		1400 INDIANA AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0188-0000	12/16/04	7R	
066495		1540 INDIANA AVE	REHABILITATION RESID	SOUTH PASADENA	P	1926	PROJ.REVW.	HUD080630B	07/22/08	6U	
							PROJ.REVW.	HUD880208N	03/18/88	6Y	
109832		804 KENDALL AVE		SOUTH PASADENA	P	1963	HIST.RES.	DOE-19-97-0002-0049	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/97	7M	
109833		808 KENDALL AVE		SOUTH PASADENA	P	1963	HIST.RES.	DOE-19-97-0002-0050	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109834		812 KENDALL AVE		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0002-0051	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109835		820 KENDALL AVE		SOUTH PASADENA	P	1910	HIST.RES.	DOE-19-97-0002-0052	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109836		900 KENDALL AVE		SOUTH PASADENA	P	1906	HIST.RES.	DOE-19-97-0002-0053	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109837		904 KENDALL AVE		SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-97-0002-0054	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109838		908 KENDALL AVE		SOUTH PASADENA	P	1911	HIST.RES.	DOE-19-97-0002-0055	02/24/97	6Y	
							PROJ.REVW.	FHWA830201	09/11/96	7M	
153174		2029 LA FRANCE AVE		SOUTH PASADENA		1913	PROJ.REVW.	HUD040329B	04/21/04		
							PROJ.REVW.	HUD030710C	11/14/03	6U	
147063		700 LA PORTADA ST		SOUTH PASADENA	M	1940	HIST.RES.	DOE-19-04-0066-0000	05/12/04	6Y	
							PROJ.REVW.	FCC040421D	05/12/04	6Y	
150777		700 LA PORTADA ST		SOUTH PASADENA		1965	HIST.SURV.	1030-0189-0000	12/16/04	7R	
066506		1705 LA SENDA PL		SOUTH PASADENA	U		PROJ.REVW.	HUD880216E	03/18/88	6Y	
150778		1685 LAS FLORES AVE		SOUTH PASADENA	P		HIST.SURV.	1030-0190-0000	12/16/04	7R	
150779		1695 LAS FLORES AVE		SOUTH PASADENA	P		HIST.SURV.	1030-0191-0000	12/16/04	7R	
150780		1540 LAUREL ST		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0192-0000	12/16/04	7R	
030339	19-179649	1100 LOMA VISTA CT		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0042-0000		7R	
064983		1100 LOMA VISTA CT	RESIDENCE	SOUTH PASADENA	U		PROJ.REVW.	HUD860923G	11/24/86	6Y	
116021		909 LYNDON AVE	EAST WYNYATE	SOUTH PASADENA	P	1896	CHRIS	19-150041	10/01/93	7	
*+ 030306	19-179617	851 LYNDON ST	WYNYATE	SOUTH PASADENA	P	1887	HIST.RES.	NPS-73000407-0000	04/24/73	1S	
							HIST.SURV.	1030-0035-0000	01/01/73	1S	
150781		858 LYNDON ST		SOUTH PASADENA	P		HIST.SURV.	1030-0193-0000	12/16/04	7R	
150782		904 LYNDON ST		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0194-0000	12/16/04	7R	
150784		914 LYNDON ST		SOUTH PASADENA	P	1931	HIST.SURV.	1030-0195-0000	12/16/04	7R	
150785		916 LYNDON ST		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0196-0000	12/16/04	7R	
150786		920 LYNDON ST		SOUTH PASADENA	P	1911	HIST.SURV.	1030-0197-0000	12/16/04	7R	
150788		1100 LYNDON ST		SOUTH PASADENA	P	1928	HIST.SURV.	1030-0198-0000	12/16/04	7R	
150789		1104 LYNDON ST		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0199-0000	12/16/04	7R	
150790		1200 LYNDON ST		SOUTH PASADENA	P	1911	HIST.SURV.	1030-0200-0000	12/16/04	7R	
150791		1204 LYNDON ST		SOUTH PASADENA	P	1917	HIST.SURV.	1030-0201-0000	12/16/04	7R	
150792		1212 LYNDON ST		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0202-0000	12/16/04	7R	

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150793		1216 LYNDON ST		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0203-0000	12/16/04	7R	
150794		1407 LYNDON ST		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0204-0000	12/16/04	7R	
150795		1412 LYNDON ST		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0205-0000	12/16/04	7R	
150798		1419 LYNDON ST		SOUTH PASADENA		1914	HIST.SURV.	1030-0206-0000	12/16/04	7R	
150799		1420 LYNDON ST		SOUTH PASADENA	P	1911	HIST.SURV.	1030-0207-0000	12/16/04	7R	
150800		1421 LYNDON ST		SOUTH PASADENA	P	1907	HIST.SURV.	1030-0208-0000	12/16/04	7R	
150802		1422 LYNDON ST		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0209-0000	12/16/04	7R	
150803		1429 LYNDON ST		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0210-0000	12/16/04	7R	
150804		MAGNOLIA ST	800 BLOCK OF MAGNOLIA STREET	SOUTH PASADENA	P	1900	HIST.SURV.	1030-0211-0000	12/16/04	7R	
151067		414 MAGNOLIA ST		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0319-0046	12/16/04	7R	
151068		422 MAGNOLIA ST		SOUTH PASADENA	P	1931	HIST.SURV.	1030-0319-0047	12/16/04	7R	
151069		423 MAGNOLIA ST		SOUTH PASADENA	P	1900	HIST.SURV.	1030-0319-0048	12/16/04	7R	
151070		513 MAGNOLIA ST		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0319-0049	12/16/04	7R	
151071		517 MAGNOLIA ST		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0319-0050	12/16/04	7R	
099603		815 MAGNOLIA ST	MADELINE DUOLE HOUSE	SOUTH PASADENA	P	1915	HIST.RES.	DOE-19-95-0025-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099604		820 MAGNOLIA ST	G.W. WILSON HOUSE	SOUTH PASADENA	P	1920	HIST.RES.	DOE-19-95-0026-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099605		821 MAGNOLIA ST	GEORGE BROWN HOUSE	SOUTH PASADENA	P	1914	HIST.RES.	DOE-19-95-0027-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099606		827 MAGNOLIA ST	W.S. ADMONSON HOUSE	SOUTH PASADENA	P	1922	HIST.RES.	DOE-19-95-0028-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
150805		913 MAGNOLIA ST		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0212-0000	12/16/04	7R	
+030228	19-179539	1007 MAGNOLIA ST		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0027-0008	01/01/83	2D2	
104712		1100 MAPLE ST		SOUTH PASADENA	P	1926	HIST.SURV.	1109-1815-0088	11/05/96	7M	
104713		1104 MAPLE ST		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0089	11/05/96	7M	
104714		1107 MAPLE ST		SOUTH PASADENA	P	1948	HIST.SURV.	1109-1815-0090	11/05/96	7M	
104716		1108 MAPLE ST		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0091	11/05/96	7M	
104717		1109 MAPLE ST		SOUTH PASADENA	P	1940	HIST.SURV.	1109-1815-0092	11/05/96	7M	
104719		1112 MAPLE ST		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0093	11/05/96	7M	
104721		1115 MAPLE ST		SOUTH PASADENA	P	1922	HIST.SURV.	1109-1815-0094	11/05/96	7M	
104723		1116 MAPLE ST		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0095	11/05/96	7M	
104726		1120 MAPLE ST		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0096	11/05/96	7M	
134453		1217 MARENGO AVE		SOUTH PASADENA		1911	HIST.RES.	DOE-19-02-1043-0000	10/09/02	6U	
							PROJ.REVW.	HUD021009N	10/09/02	6U	
134454		1721 MARENGO AVE		SOUTH PASADENA		1929	HIST.RES.	DOE-19-02-1044-0000	10/09/02	6U	
							PROJ.REVW.	HUD021009N	10/09/02	6U	
150808		2007 MARENGO AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0213-0000	12/16/04	7R	
150809		2017 MARENGO AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0214-0000	12/16/04	7R	
150810		2025 MARENGO AVE		SOUTH PASADENA	P	1914	HIST.SURV.	1030-0215-0000	12/16/04	7R	
150811		118 MARMION WY		SOUTH PASADENA	P		HIST.SURV.	1030-0216-0000	12/16/04	7R	
110036		2009 MAYCREST AVE		SOUTH PASADENA	P	1942	HIST.RES.	DOE-19-00-0011-0000	02/27/96	6Y	
							PROJ.REVW.	FHWA830201A	02/27/96	6Y	
110037		2010 MAYCREST AVE		SOUTH PASADENA	P	1941	HIST.RES.	DOE-19-96-0084-0000	02/27/96	6Y	
							PROJ.REVW.	FHWA830201A	02/27/96	6Y	
109964		2012 MAYCREST AVE		SOUTH PASADENA	P	1941	HIST.RES.	DOE-19-96-0054-0000	02/27/96	6Y	
							PROJ.REVW.	FHWA830201A	02/27/96	6Y	
110035		2021 MAYCREST AVE		SOUTH PASADENA	P	1940	HIST.RES.	DOE-19-96-0082-0000	02/27/96	6Y	
							PROJ.REVW.	FHWA830201A	02/27/96	6Y	
109973		2028 MAYCREST AVE		SOUTH PASADENA	P	1941	HIST.RES.	DOE-19-96-0055-0000	02/27/96	6Y	
							PROJ.REVW.	FHWA830201A	02/27/96	6Y	
110034		2033 MAYCREST AVE		SOUTH PASADENA	P	1944	HIST.RES.	DOE-19-96-0081-0000	02/27/96	6Y	
							PROJ.REVW.	FHWA830201A	02/27/96	6Y	
110033		2037 MAYCREST AVE		SOUTH PASADENA	P	1940	HIST.RES.	DOE-19-96-0080-0000	02/27/96	6Y	
							PROJ.REVW.	FHWA830201A	02/27/96	6Y	
109975		2040 MAYCREST AVE		SOUTH PASADENA	P	1945	HIST.RES.	DOE-19-96-0056-0000	02/27/96	6Y	

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							PROJ.REVW.	FHWA830201A	02/27/96	6Y	
110032		2041 MAYCREST AVE		SOUTH PASADENA	P	1945	HIST.RES.	DOE-19-96-0079-0000	02/27/97	6Y	
							PROJ.REVW.	FHWA830201A	02/27/96	6Y	
109842		MERIDIAN AVE		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0002-0059	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
076628		MERIDIAN AVE	SANTA FE RIGHT OF WAY	SOUTH PASADENA	P	0	HIST.SURV.	1030-0013-0015	07/21/82	6Y	
+ 030250	19-179561	MERIDIAN AVE	NORTH OF MISSION DISTRICT	SOUTH PASADENA	P	1885	HIST.SURV.	1030-0027-9999	01/01/83	2S2	
							PROJ.REVW.	65000910	03/31/83	2S2	
* + 030206	19-179517	MERIDIAN AVE	WATERING TROUGH AND WAYSIDE STATIO	SOUTH PASADENA	M	1906	HIST.SURV.	1030-0013-0017	01/01/83	1D	
+ 030299	19-179610	MERIDIAN AVE	SOUTH OF MISSION DISTRICT	SOUTH PASADENA	P	1885	HIST.SURV.	1030-0028-9999	01/01/83	2S2	
							PROJ.REVW.	65001051	03/31/83		
030343	19-179652	300 MERIDIAN AVE	E. C. EMMONS HOUSE	SOUTH PASADENA	P	1920	HIST.RES.	DOE-19-95-0029-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
							HIST.SURV.	1030-0046-0000		7R	
+ 030360	19-179669	303 MERIDIAN AVE	KENNETH A. GABRIEL HOUSE	SOUTH PASADENA	P	1926	HIST.SURV.	1030-0056-0008	09/24/04	3D	
							PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0010	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0010		3S	
099608		310 MERIDIAN AVE	E. H. LOCKWOOD HOUSE	SOUTH PASADENA	P	1936	HIST.RES.	DOE-19-95-0030-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
+ 030221	19-179532	602 MERIDIAN AVE		SOUTH PASADENA	P	1914	HIST.SURV.	1030-0027-0001	01/01/83	2D2	
+ 030222	19-179533	606 MERIDIAN AVE		SOUTH PASADENA	P	1913	HIST.SURV.	1030-0027-0002	01/01/83	2D2	
+ 030223	19-179534	610 MERIDIAN AVE		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0027-0003	01/01/83	2D2	
+ 030224	19-179535	612 MERIDIAN AVE		SOUTH PASADENA	P	1913	HIST.SURV.	1030-0027-0004	01/01/83	2D2	
+ 030238	19-179549	613 MERIDIAN AVE		SOUTH PASADENA	P	1895	HIST.SURV.	1030-0027-0018	01/01/83	2D2	
+ 030225	19-179536	616 MERIDIAN AVE		SOUTH PASADENA	P	1913	HIST.SURV.	1030-0027-0005	01/01/83	2D2	
+ 030239	19-179550	617 MERIDIAN AVE		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0027-0019	01/01/83	2D2	
+ 030226	19-179537	620 MERIDIAN AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0027-0006	01/01/83	2D2	
+ 030240	19-179551	621 MERIDIAN AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0027-0020	01/01/83	2D2	
+ 030227	19-179538	624 MERIDIAN AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0027-0007	01/01/83	2D2	
+ 030241	19-179552	625 MERIDIAN AVE		SOUTH PASADENA	P	1913	HIST.SURV.	1030-0027-0021	01/01/83	2D2	
+ 030242	19-179553	631 MERIDIAN AVE		SOUTH PASADENA	P	1890	HIST.SURV.	1030-0027-0022	01/01/83	2D2	
030243	19-179554	633 MERIDIAN AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0027-0023		7R	
+ 030244	19-179555	637 MERIDIAN AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0027-0024	01/01/83	2D2	
+ 030245	19-179556	701 MERIDIAN AVE		SOUTH PASADENA	P	1905	HIST.SURV.	1030-0027-0025	01/01/83	2D2	
+ 030229	19-179540	704 MERIDIAN AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0027-0009	01/01/83	2D2	
030246	19-179557	705 MERIDIAN AVE		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0027-0026		7R	
+ 030230	19-179541	708 MERIDIAN AVE		SOUTH PASADENA	P	1905	HIST.SURV.	1030-0027-0010	01/01/83	2D2	
+ 030247	19-179558	709 MERIDIAN AVE		SOUTH PASADENA	P	1885	HIST.SURV.	1030-0027-0027	01/01/83	2D2	
+ 030231	19-179542	712 MERIDIAN AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0027-0011	01/01/83	2D2	
+ 030248	19-179559	713 MERIDIAN AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0027-0028	01/01/83	2D2	
+ 030232	19-179543	716 MERIDIAN AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0027-0012	01/01/83	2D2	
+ 030233	19-179544	720 MERIDIAN AVE		SOUTH PASADENA	P	1911	HIST.SURV.	1030-0027-0013	01/01/83	2D2	
+ 030234	19-179545	726 MERIDIAN AVE		SOUTH PASADENA	P	1920	HIST.SURV.	1030-0027-0014	01/01/83	2D2	
+ 030249	19-179560	803 MERIDIAN AVE		SOUTH PASADENA	P	1885	HIST.SURV.	1030-0027-0029	01/01/83	2D2	
+ 030235	19-179546	806 MERIDIAN AVE		SOUTH PASADENA	P	1905	HIST.SURV.	1030-0027-0015	01/01/83	2D2	
030236	19-179547	808 MERIDIAN AVE		SOUTH PASADENA	P	1920	HIST.SURV.	1030-0027-0016		7R	
030237	19-179548	810 MERIDIAN AVE		SOUTH PASADENA	P	1903	HIST.SURV.	1030-0027-0017	01/01/83	2D2	
+ 030204	19-179515	913 MERIDIAN AVE	MERIDIAN IRONWORKS	SOUTH PASADENA	P	1887	HIST.SURV.	1030-0013-0014	01/01/83	1D	
* + 030203	19-179514	916 MERIDIAN AVE	BOLLER & CHIVENS	SOUTH PASADENA	P	1955	HIST.SURV.	1030-0013-0013		7R	
030264	19-179575	1011 MERIDIAN AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0028-0014	01/01/83	2D2	
+ 030265	19-179576	1015 MERIDIAN AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0056-0007	09/24/04	3D	
							HIST.SURV.	1030-0028-0015	01/01/83	2D2	
030266	19-179577	1019 MERIDIAN AVE		SOUTH PASADENA	P	1976	HIST.SURV.	1030-0028-0016		7R	
+ 030251	19-179562	1020 MERIDIAN AVE		SOUTH PASADENA	P	1905	HIST.SURV.	1030-0028-0001	01/01/83	2D2	
+ 030267	19-179578	1023 MERIDIAN AVE		SOUTH PASADENA	P	1906	HIST.SURV.	1030-0028-0017	01/01/83	2D2	

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030252	19-179563	1024 MERIDIAN AVE		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0028-0002		7R	
+ 030253	19-179564	1100 MERIDIAN AVE		SOUTH PASADENA	P	1906	HIST.SURV.	1030-0028-0003	01/01/83	2D2	
+ 030268	19-179579	1103 MERIDIAN AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0028-0018	01/01/83	2D2	
+ 030269	19-179580	1105 MERIDIAN AVE		SOUTH PASADENA	P	1903	HIST.SURV.	1030-0028-0019	01/01/83	2D2	
+ 030254	19-179565	1106 MERIDIAN AVE		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0028-0004	01/01/83	2D2	
+ 030270	19-179581	1109 MERIDIAN AVE		SOUTH PASADENA	P	1920	HIST.SURV.	1030-0028-0020	01/01/83	2D2	
+ 030255	19-179566	1110 MERIDIAN AVE		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0028-0005	01/01/83	2D2	
+ 030271	19-179582	1113 MERIDIAN AVE		SOUTH PASADENA	P	1907	HIST.SURV.	1030-0028-0021	01/01/83	2D2	
+ 030256	19-179567	1114 MERIDIAN AVE		SOUTH PASADENA	P	1920	HIST.SURV.	1030-0028-0006	01/01/83	2D2	
+ 030272	19-179583	1119 MERIDIAN AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0028-0022	01/01/83	2D2	
+ 030257	19-179568	1120 MERIDIAN AVE		SOUTH PASADENA	P	1911	HIST.SURV.	1030-0028-0007	01/01/83	2D2	
+ 030273	19-179584	1121 MERIDIAN AVE		SOUTH PASADENA	P	1907	HIST.SURV.	1030-0028-0023	01/01/83	2D2	
+ 030258	19-179569	1122 MERIDIAN AVE		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0028-0008	01/01/83	2D2	
+ 030274	19-179585	1125 MERIDIAN AVE		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0028-0024	01/01/83	2D2	
+ 030259	19-179570	1130 MERIDIAN AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0028-0009	01/01/83	2D2	
+ 030275	19-179586	1131 MERIDIAN AVE		SOUTH PASADENA	P	1914	HIST.SURV.	1030-0028-0025	01/01/83	2D2	
+ 030276	19-179587	1133 MERIDIAN AVE		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0028-0026	01/01/83	2D2	
+ 030260	19-179571	1134 MERIDIAN AVE		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0028-0010	01/01/83	2D2	
+ 030261	19-179572	1138 MERIDIAN AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0028-0011	01/01/83	2D2	
+ 030262	19-179573	1142 MERIDIAN AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0028-0012	01/01/83	2D2	
+ 030263	19-179574	1146 MERIDIAN AVE		SOUTH PASADENA	P	1914	HIST.SURV.	1030-0028-0013	01/01/83	2D2	
104727		1700 MERIDIAN AVE		SOUTH PASADENA	P	1928	HIST.SURV.	1109-1815-0097	11/05/96	7M	
104728		1701 MERIDIAN AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1109-1815-0098	11/05/96	7M	
107553		1701 MERIDIAN AVE		SOUTH PASADENA	P	1926	HIST.RES.	DOE-19-97-0001-0038	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
107554		1707 MERIDIAN AVE		SOUTH PASADENA	S	1923	HIST.RES.	DOE-19-97-0001-0039	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0099	11/05/96	7M	
104731		1708 MERIDIAN AVE		SOUTH PASADENA	P	1950	HIST.SURV.	1109-1815-0100	11/05/96	7M	
104734		1709 MERIDIAN AVE		SOUTH PASADENA	P	1927	HIST.SURV.	1109-1815-0101	11/05/96	7M	
107555		1709 MERIDIAN AVE		SOUTH PASADENA	P	1927	HIST.RES.	DOE-19-97-0001-0040	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
107557		1717 MERIDIAN AVE		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0041	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
104736		1717 MERIDIAN AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0102	11/05/96	7M	
104738		1721 MERIDIAN AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1109-1815-0103	11/05/96	7M	
107558		1721 MERIDIAN AVE		SOUTH PASADENA	P	1926	HIST.RES.	DOE-19-97-0001-0042	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
104739		1722 MERIDIAN AVE		SOUTH PASADENA	P	1955	HIST.SURV.	1109-1815-0104	11/05/96	7M	
104740		1724 MERIDIAN AVE		SOUTH PASADENA	P	1960	HIST.SURV.	1109-1815-0105	11/05/96	7M	
099609		1725 MERIDIAN AVE	JOHN G. WERNLI HOUSE	SOUTH PASADENA	P	1926	HIST.RES.	DOE-19-97-0001-0043	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.RES.	DOE-19-95-0031-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
104742		1725 MERIDIAN AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0106	11/05/96	7M	
104745		1728 MERIDIAN AVE		SOUTH PASADENA	P	1937	HIST.SURV.	1109-1815-0107	11/05/96	7M	
099610		1729 MERIDIAN AVE	ARTHUR B. NORMAN HOUSE	SOUTH PASADENA	P	1934	HIST.RES.	DOE-19-97-0001-0044	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.RES.	DOE-19-95-0032-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
104747		1729 MERIDIAN AVE		SOUTH PASADENA	P	1934	HIST.SURV.	1109-1815-0108	11/05/96	7M	
104750		1732 MERIDIAN AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0109	11/05/96	7M	
099611		1733 MERIDIAN AVE	J. FINKELSTEIN HOUSE	SOUTH PASADENA	P	1925	HIST.RES.	DOE-19-97-0001-0045	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.RES.	DOE-19-95-0033-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA803021A	03/07/95	7M	

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104752		1733 MERIDIAN AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0110	11/05/96	7M	
099612		1737 MERIDIAN AVE	O.H. EMMONS HOUSE	SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0046	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.RES.	DOE-19-95-0034-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
104754		1737 MERIDIAN AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0111	11/05/96	7M	
104758		1738 MERIDIAN AVE		SOUTH PASADENA	P	1939	HIST.SURV.	1109-1815-0112	11/05/96	7M	
104760		1800 MERIDIAN AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0113	11/05/96	7M	
104762		1801 MERIDIAN AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0114	11/05/96	7M	
107586		1801 MERIDIAN AVE		SOUTH PASADENA	P	1925	HIST.RES.	DOE-19-97-0001-0067	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
107564		1805 MERIDIAN AVE		SOUTH PASADENA	P	1990	HIST.RES.	DOE-19-97-0001-0048	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
104764		1805 MERIDIAN AVE		SOUTH PASADENA	P	1990	HIST.SURV.	1109-1815-0115	11/05/96	7M	
104766		1815 MERIDIAN AVE		SOUTH PASADENA	P	1964	HIST.SURV.	1109-1815-0116	11/05/96	7M	
107565		1815 MERIDIAN AVE		SOUTH PASADENA	P	1964	HIST.RES.	DOE-19-97-0001-0049	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
107567		1821 MERIDIAN AVE		SOUTH PASADENA	S	1924	HIST.RES.	DOE-19-97-0001-0050	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.SURV.	1109-1815-0117	11/05/96	7M	
107568		1909 MERIDIAN AVE		SOUTH PASADENA	P	1923	HIST.RES.	DOE-10-97-0001-0051	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
104769		1909 MERIDIAN AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0118	11/05/96	7M	
104771		1912 MERIDIAN AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0119	11/05/96	7M	
104773		1913 MERIDIAN AVE		SOUTH PASADENA	P	1938	HIST.SURV.	1109-1815-0120	11/05/96	7M	
107569		1913 MERIDIAN AVE		SOUTH PASADENA	P	1938	HIST.RES.	DOE-19-97-0001-0052	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
107571		1917 MERIDIAN AVE		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0054	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
104775		1917 MERIDIAN AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0121	11/05/96	7M	
104777		1921 MERIDIAN AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0122	11/05/96	7M	
107572		1921 MERIDIAN AVE		SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-97-0001-0055	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
104779		1927 MERIDIAN AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0123	11/05/96	7M	
104782		1933 MERIDIAN AVE		SOUTH PASADENA	P	1938	HIST.SURV.	1109-1815-0124	11/05/96	7M	
104783		1937 MERIDIAN AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0125	11/05/96	7M	
104784		1940 MERIDIAN AVE		SOUTH PASADENA	P	1936	HIST.SURV.	1109-1815-0126	11/05/96	7M	
104785		1941 MERIDIAN AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0127	11/05/96	7M	
104786		1945 MERIDIAN AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0128	11/05/96	7M	
104787		1949 MERIDIAN AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0129	11/05/96	7M	
104788		1955 MERIDIAN AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1109-1815-0130	11/05/96	7M	
104789		2003 MERIDIAN AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0131	11/05/96	7M	
104791		2004 MERIDIAN AVE		SOUTH PASADENA	P	1938	HIST.SURV.	1109-1815-0132	11/05/96	7M	
104792		2009 MERIDIAN AVE		SOUTH PASADENA	P	1934	HIST.SURV.	1109-1815-0133	11/05/96	7M	
104793		2013 MERIDIAN AVE		SOUTH PASADENA	P	1935	HIST.SURV.	1109-1815-0134	11/05/96	7M	
104794		2014 MERIDIAN AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0135	11/05/96	7M	
104796		2021 MERIDIAN AVE		SOUTH PASADENA	P	1936	HIST.SURV.	1109-1815-0136	11/05/96	7M	
109839		2025 MERIDIAN AVE		SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-97-0002-0056	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109840		2029 MERIDIAN AVE		SOUTH PASADENA	P	1926	HIST.RES.	DOE-19-97-0002-0057	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109841		2035 MERIDIAN AVE		SOUTH PASADENA	P	1949	HIST.RES.	DOE-19-97-0002-0058	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109843		2045 MERIDIAN AVE		SOUTH PASADENA	P	1949	HIST.RES.	DOE-19-97-0002-0060	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109848		2051 MERIDIAN AVE		SOUTH PASADENA	P	1908	HIST.RES.	DOE-19-97-0002-0061	02/24/97	6Y	

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							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109849		2053 MERIDIAN AVE		SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-97-0002-0062	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109850		2057 MERIDIAN AVE		SOUTH PASADENA	P	1917	HIST.RES.	DOE-19-97-0002-0063	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109851		2063 MERIDIAN AVE		SOUTH PASADENA	P	1911	HIST.RES.	DOE-19-97-0002-0064	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109852		2067 MERIDIAN AVE		SOUTH PASADENA	P	1970	HIST.RES.	DOE-19-97-0002-0065	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109853		2075 MERIDIAN AVE		SOUTH PASADENA	P	1961	HIST.RES.	DOE-19-97-0002-0066	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109854		2079 MERIDIAN AVE		SOUTH PASADENA	P	1917	HIST.RES.	DOE-19-97-0002-0067	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
153175		2014 MILAN AVE		SOUTH PASADENA		1910	PROJ.REVW.	HUD030710C	11/14/03	6U	
150830		MISSION ST	1800 BLOCK OF MISSION STREET	SOUTH PASADENA			HIST.SURV.	1030-0231-0000	12/16/04	7R	
✳+ 030207	19-179518	MISSION ST	SOUTH PASADENA HISTORIC DISTRICT /	SOUTH PASADENA	FM	1887	HIST.RES.	NPS-82002202-9999	07/21/82	1S	A
							HIST.RES.	FHWA830201A	12/21/77	2S2	A
							HIST.SURV.	1030-0013-9999	07/01/77	3S	A
150812		401 MISSION ST		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0217-0000	12/16/04	7R	
150813		403 MISSION ST		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0218-0000	12/16/04	7R	
150815		408 MISSION ST		SOUTH PASADENA	P	1938	HIST.SURV.	1030-0219-0000	12/16/04	7R	
150816		430 MISSION ST		SOUTH PASADENA	P	1939	HIST.SURV.	1030-0220-0000	12/16/04	7R	
150817		444 MISSION ST		SOUTH PASADENA	P	1929	HIST.SURV.	1030-0221-0000	12/16/04	7R	
150818		454 MISSION ST		SOUTH PASADENA	P	1929	HIST.SURV.	1030-0222-0000	12/16/04	7R	
150819		605 MISSION ST		SOUTH PASADENA	P	1936	HIST.SURV.	1030-0223-0000	12/16/04	7R	
150820		701 MISSION ST		SOUTH PASADENA	P	1930	HIST.SURV.	1030-0224-0000	12/16/04	7R	
030340	19-179650	815 MISSION ST	SWIMMING POOL BUILDING, PLUNGE	SOUTH PASADENA	M	1939	HIST.SURV.	1030-0043-0000		7R	
099613		835 MISSION ST		SOUTH PASADENA	P	1962	HIST.RES.	DOE-19-95-0035-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
✳+ 030205	19-179516	950 MISSION ST	MISSION HOTEL	SOUTH PASADENA	P	1923	TAX.CERT.	537.9-19-0067	06/13/85	2D3	
							HIST.RES.	NPS-82002202-0016	07/21/82	1D	A
							HIST.SURV.	1030-0013-0016	01/01/77	7N	A
✳+ 030191	19-179502	1001 MISSION ST	ALEXANDER BLOCK	SOUTH PASADENA	P	1906	HIST.RES.	NPS-82002202-0001	07/21/82	1D	A
							HIST.SURV.	1030-0013-0001	01/01/77	3S	A
✳+ 030194	19-179505	1002 MISSION ST	SHAPIRO BLOCK	SOUTH PASADENA	P	1915	HIST.RES.	NPS-82002202-0004	07/21/82	1D	A
							HIST.SURV.	1030-0013-0004	01/01/77	7N	A
✳+ 030195	19-179506	1008 MISSION ST	EDWARDS & FAW BLOCK	SOUTH PASADENA	P	1912	HIST.RES.	NPS-82002202-0005	07/21/82	1D	A
							HIST.SURV.	1030-0013-0005	01/01/77	7N	A
✳+ 030192	19-179503	1011 MISSION ST	GRAHAM BLOCK	SOUTH PASADENA	P	1908	HIST.RES.	NPS-82002202-0002	07/21/82	1D	A
							HIST.SURV.	1030-0013-0002	01/01/77	7N	A
✳+ 030196	19-179507	1012 MISSION ST	ASHTON BLOCK	SOUTH PASADENA	P	1924	HIST.SURV.	1030-0013-0006	01/01/83	1D	
✳+ 030197	19-179508	1014 MISSION ST	MISSION ANTIQUES	SOUTH PASADENA	P	1910	HIST.SURV.	1030-0013-0007	01/01/83	1D	
✳+ 030198	19-179509	1024 MISSION ST	HERLIHY BLOCK, SOUTH PASADENA REVI	SOUTH PASADENA	P	1907	HIST.RES.	NPS-082002202-0008	07/21/82	1D	A
							HIST.SURV.	1030-0013-0008	01/01/77	5D2	A
✳+ 030199	19-179510	1028 MISSION ST	TAYLOR BLOCK	SOUTH PASADENA	P	1906	HIST.RES.	NPS-82002202-0009	07/21/82	1D	A
							HIST.SURV.	1030-0013-0009	01/01/77	7N	A
+ 126436		1040 MISSION ST	EL CENTRO MARKET/CENTRAL MARKET	SOUTH PASADENA	P	1930	NAT.REG.	19-0352	02/20/01	3S	C
							HIST.RES.	NPS-01000327-0000	04/13/01	2S	C
150821		1108 MISSION ST		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0225-0000	12/16/04	7R	
150822		1115 MISSION ST		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0226-0000	12/16/04	7R	
150823		1128 MISSION ST		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0227-0000	12/16/04	7R	
030208	19-179519	1128 MISSION ST	JACOBS BLOCK	SOUTH PASADENA	P	1910	HIST.SURV.	1030-0014-0000		5S2	
150826		1133 MISSION ST		SOUTH PASADENA	P	1947	HIST.SURV.	1030-0228-0000	12/16/04	7R	
150828		1415 MISSION ST		SOUTH PASADENA	P	1931	HIST.SURV.	1030-0229-0000	12/16/04	7R	
150829		1610 MISSION ST		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0230-0000	12/16/04	7R	
150834		75 MONTEREY RD		SOUTH PASADENA	P	1903	HIST.SURV.	1030-0232-0000	12/16/04	7R	

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150835		84 MONTEREY RD		SOUTH PASADENA		1924	HIST.SURV.	1030-0233-0000	12/16/04	7R	
150837		95 MONTEREY RD		SOUTH PASADENA	P	1920	HIST.SURV.	1030-0234-0000	12/16/04	7R	
150838		100 MONTEREY RD		SOUTH PASADENA		1923	HIST.SURV.	1030-0235-0000	12/16/04	7R	
150839		121 MONTEREY RD		SOUTH PASADENA	P	1900	HIST.SURV.	1030-0236-0000	12/16/04	7R	
081615		121 MONTEREY RD		SOUTH PASADENA	U	1906	PROJ.REVW.	HUD871027C	08/29/89	6Y	
134452		123 MONTEREY RD		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0238-0000	12/16/04	7R	
							HIST.RES.	DOE-19-02-1042-0000	10/09/02	6U	
							PROJ.REVW.	HUD021009N	10/09/02	6U	
150841		125 MONTEREY RD		SOUTH PASADENA	P	1905	HIST.SURV.	1030-0239-0000	12/16/04	7R	
150842		219 MONTEREY RD		SOUTH PASADENA	P		HIST.SURV.	1030-0240-0000	12/16/04	7R	
+030213	19-179524	237 MONTEREY RD	A. A. MITCHELL HOUSE, WILLIAM DIET	SOUTH PASADENA	P	1887	HIST.SURV.	1030-0242-0000	12/16/04	7R	
							HIST.RES.	DOE-19-83-0020-0000	03/31/83	2S2	A
							PROJ.REVW.	FHWA830201A	02/28/83	2S2	A
							HIST.SURV.	1030-0019-0000	11/01/76	7N	
150843		258 MONTEREY RD		SOUTH PASADENA	P	1905	HIST.SURV.	1030-0243-0000	12/16/04	7R	
150844		259 MONTEREY RD		SOUTH PASADENA	P	1905	HIST.SURV.	1030-0244-0000	12/16/04	7R	
150845		335 MONTEREY RD		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0245-0000	12/16/04	7R	
150847		424 MONTEREY RD		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0246-0000	12/16/04	7R	
150848		499 MONTEREY RD		SOUTH PASADENA	P		HIST.SURV.	1030-0247-0000	12/16/04	7R	
030214	19-179525	699 MONTEREY RD	A. C. BILICKE HOUSE, SOUTH PASADEN	SOUTH PASADENA	P	1905	HIST.SURV.	1030-0249-0000	12/16/04	7R	
							HIST.SURV.	1030-0020-0000		3S	
066496		782 MONTEREY RD		SOUTH PASADENA	U		PROJ.REVW.	HUD880208O	03/16/88	6Y	
099614		848 MONTEREY RD	J.D. SCHWEITZ HOUSE	SOUTH PASADENA	P	1922	HIST.RES.	DOE-19-95-0036-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099615		852 MONTEREY RD	A. A. MORSE HOUSE	SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-95-0037-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099616		856 MONTEREY RD	ROBERT S. PAYNE HOUSE	SOUTH PASADENA	P	1914	HIST.RES.	DOE-19-95-0038-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
099617		860 MONTEREY RD	E. E. BARDEN HOUSE	SOUTH PASADENA	P	1922	HIST.RES.	DOE-19-95-0039-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
+030303	19-179614	911 MONTEREY RD	J. G. PIERCE HOUSE	SOUTH PASADENA	S	1910	HIST.SURV.	1030-0032-0000	01/01/83	2D2	
							PROJ.REVW.	65000952	03/31/83		
+030219	19-179530	921 MONTEREY RD	KENNETH W. JOY HOUSE	SOUTH PASADENA	P	1912	HIST.SURV.	1030-0039-0000	01/01/83	2S2	
							HIST.SURV.	1030-0025-0000		2S2	
150854		1003 MONTEREY RD		SOUTH PASADENA	P	1890	HIST.SURV.	1030-0250-0000	12/16/04	7R	
150855		1011 MONTEREY RD		SOUTH PASADENA	P	1907	HIST.SURV.	1030-0251-0000	12/16/04	7R	
030160	19-179471	1103 MONTEREY RD	LEO LONGLEY HOUSE	SOUTH PASADENA	P	1887	HIST.SURV.	1030-0001-0000		5S2	
150856		1107 MONTEREY RD		SOUTH PASADENA	P	1917	HIST.SURV.	1030-0252-0000	12/16/04	7R	
150857		1221 MONTEREY RD		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0253-0000	12/16/04	7R	
150858		1225 MONTEREY RD		SOUTH PASADENA	P	1904	HIST.SURV.	1030-0254-0000	12/16/04	7R	
150859		1231 MONTEREY RD		SOUTH PASADENA	P	1904	HIST.SURV.	1030-0255-0000	12/16/04	7R	
150860		1305 MONTEREY RD		SOUTH PASADENA	P	1904	HIST.SURV.	1030-0256-0000	12/16/04	7R	
030215	19-179526	1325 MONTEREY RD	ST JAMES EPISCOPAL CHURCH	SOUTH PASADENA	P	1906	HIST.SURV.	1030-0021-0000		3S	
150861		1427 MONTEREY RD		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0257-0000	12/16/04	7R	
083777		1910 MONTEREY RD		SOUTH PASADENA	U	1910	PROJ.REVW.	HUD910630T	08/24/93	6Y	
177070		2015 MONTEREY RD		SOUTH PASADENA	P	1959	HIST.SURV.	1030-0321-0029	11/01/04	5D3	
177071		2033 MONTEREY RD		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0321-0030	11/01/04	3D	
177072		2045 MONTEREY RD		SOUTH PASADENA	P	1919	HIST.SURV.	1030-0321-0031	11/01/04	3D	
150862		2050 MONTEREY RD		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0258-0000	12/16/04	7R	
150863		2120 MONTEREY RD		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0259-0000	12/16/04	7R	
066493		1121 MONTROSE AVE		SOUTH PASADENA	U		PROJ.REVW.	HUD880208L	03/16/88	6Y	
150864		500 MOUND AVE		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0260-0000	12/16/04	7R	
066718		506 MOUND AVE		SOUTH PASADENA	U		PROJ.REVW.	HUD880616F	07/18/88	6Y	
066717		509 MOUND AVE		SOUTH PASADENA	U		PROJ.REVW.	HUD880616E	07/18/88	6Y	
065489		510 MOUND AVE		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0261-0000	12/16/04	7R	
							PROJ.REVW.	HUD881011F	11/09/88	6Y	

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150865		1008 MOUND AVE		SOUTH PASADENA	P	1903	HIST.SURV.	1030-0262-0000	12/16/04	7R	
150866		1011 MOUND AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0263-0000	12/16/04	7R	
150867		1310 MOUNTAIN VIEW AVE		SOUTH PASADENA	P	1928	HIST.SURV.	1030-0264-0000	12/16/04	7R	
150870		1401 OAK CREST AVE		SOUTH PASADENA	P	1929	HIST.SURV.	1030-0269-0000	12/16/04	7R	
150871		1205 OAK HILL PL		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0270-0000	12/16/04	7R	
150872		1219 OAK HILL PL		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0271-0000	12/16/04	7R	
150873		1239 OAK HILL PL		SOUTH PASADENA	P	1903	HIST.SURV.	1030-0272-0000	12/16/04	7R	
150874		1508 OAK MEADOW LANE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0273-0000	12/16/04	7R	
104453		OAK ST	GILLETTE CRESCENT-MERIDIAN AVENUE	SOUTH PASADENA	P	1922	HIST.SURV.	1109-1815-9999	10/31/96	7M	AC
104798		1101 OAK ST		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0137	11/05/96	7M	
104800		1107 OAK ST		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0138	11/05/96	7M	
104802		1113 OAK ST		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0139	11/05/96	7M	
104804		1115 OAK ST		SOUTH PASADENA	P	1928	HIST.SURV.	1109-1815-0140	11/05/96	7M	
150868		1515 OAK ST		SOUTH PASADENA		1910	HIST.SURV.	1030-0265-0000	12/16/04	7R	
030161	19-179472	1950 OAK ST	WILLIAM COOPER HOUSE	SOUTH PASADENA	P	1914	HIST.SURV.	1030-0268-0000	12/16/04	7R	
							HIST.SURV.	1030-0002-0000		3S	
*+ 030175	19-179486	OAKLAWN AVE	OAKLAWN BRIDGE & WAITING STATION	SOUTH PASADENA	M	1906	HIST.RES.	NPS-73000406-0000	06/07/01	1S	C
							HIST.SURV.	1030-0010-0002	07/16/73	2D	
							HIST.RES.	NPS-73000406-0000	07/16/73	1S	BC
							NAT.REG.	19-0383	07/16/73	1S	BC
+ 030188	19-179499	OAKLAWN AVE	OAKLAWN DISTRICT	SOUTH PASADENA	P	1906	NAT.REG.	19-0543	11/24/08	7J	
							PROJ.REVW.	65000922	12/21/77	2S	
+ 030174	19-179485	OAKLAWN AVE	OAKLAWN PORTALS	SOUTH PASADENA	U	1906	HIST.SURV.	1030-0010-0001	11/28/78	2D	
+ 030187	19-179498	203 OAKLAWN AVE		SOUTH PASADENA	P	1911	HIST.SURV.	1030-0010-0014	11/28/78	2D	
+030186	19-179497	207 OAKLAWN AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0010-0013	11/28/78	2D	
+ 030176	19-179487	216 OAKLAWN AVE		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0010-0003	11/28/78	2D	
+030185	19-179496	217 OAKLAWN AVE		SOUTH PASADENA	P	1911	HIST.SURV.	1030-0010-0012	11/28/78	2D	
+ 030177	19-179488	224 OAKLAWN AVE		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0010-0004	11/28/78	2D	
+030184	19-179495	227 OAKLAWN AVE		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0010-0011	11/28/78	2D	
+030178	19-179489	304 OAKLAWN AVE		SOUTH PASADENA	P	1909	HIST.SURV.	1030-0010-0005	11/28/78	2D	
+ 030183	19-179494	317 OAKLAWN AVE		SOUTH PASADENA	P	1907	HIST.SURV.	1030-0010-0010	11/28/78	2D	
+ 030182	19-179493	401 OAKLAWN AVE		SOUTH PASADENA	P	1915	HIST.SURV.	1030-0010-0009	11/28/78	2D	
+ 030179	19-179490	412 OAKLAWN AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0010-0006	11/28/78	2D	
+ 030181	19-179492	415 OAKLAWN AVE		SOUTH PASADENA	P	1906	HIST.SURV.	1030-0010-0008	11/28/78	2D	
+ 030180	19-179491	431 OAKLAWN AVE		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0010-0007	11/28/78	2D	
125582		1828 OLIVE AVE		SOUTH PASADENA	U	1923	HIST.RES.	DOE-19-98-0358-0000	05/11/98	6Y	
							PROJ.REVW.	HUD980511I	05/11/98	6Y	
+030361	19-179670	909 OLIVER ST	P. TULLY HOUSE	SOUTH PASADENA	P	1926	HIST.SURV.	1030-0056-0009	09/24/04	3D	
							PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0011	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0011		3S	
030342	19-179651	924 OLIVER ST	EDWARD HALL HOUSE	SOUTH PASADENA	P	1915	HIST.RES.	DOE-19-95-0040-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
							HIST.SURV.	1030-0045-0000		7R	
+ 102633		930 OLIVER ST	WARREN D. CLARK HOUSE	SOUTH PASADENA	P	1910	PROJ.REVW.	FHWA830201A	02/07/96	2S	C
							HIST.RES.	DOE-19-96-0013-0000	02/07/96	2S	C
							PROJ.REVW.	FHWA830201A	03/07/95	7M	C
							CHRIS	19-150040	03/01/94	7R	
104806		803 ONEONTA DR		SOUTH PASADENA	P	1992	HIST.SURV.	1109-1815-0141	11/05/96	7M	
104810		806 ONEONTA DR		SOUTH PASADENA	P	1948	HIST.SURV.	1109-1815-0142	11/05/96	7M	
104812		809 ONEONTA DR		SOUTH PASADENA	P	1988	HIST.SURV.	1109-1815-0143	11/05/96	7M	
104814		813 ONEONTA DR		SOUTH PASADENA	P	1988	HIST.SURV.	1109-1815-0144	11/05/96	7M	
104815		819 ONEONTA DR		SOUTH PASADENA	P	1986	HIST.SURV.	1109-1815-0145	11/05/96	7M	
104816		822 ONEONTA DR		SOUTH PASADENA	P	1980	HIST.SURV.	1109-1815-0146	11/05/96	7M	
104817		826 ONEONTA DR		SOUTH PASADENA	P	1925	HIST.RES.	DOE-19-96-0085-0000	02/27/96	6Y	
							PROJ.REVW.	FHWA830201A	02/27/96	6Y	

OPERTY-NUMBER	PRIMARY-#	STREET.ADDRESS.....	NAMES.....	CITY.NAME.....	OWN	YR-C	OHP-PROG..	PRG-REFERENCE-NUMBER	STAT-DAT	NRS	CRIT
							HIST.SURV.	1109-1815-0147	11/05/96	7M	
104819		830 ONEONTA DR		SOUTH PASADENA	P	1925	HIST.RES.	DOE-19-96-0053-0000	02/27/96	6Y	
							PROJ.REVW.	FHWA830201A	02/27/96	6Y	
							HIST.SURV.	1109-1815-0148	11/05/96	7M	
104820		834 ONEONTA DR	14	SOUTH PASADENA	P	1925	HIST.RES.	DOE-19-96-0052-0000	02/27/96	6Y	
							PROJ.REVW.	FHWA830201A	02/27/96	6Y	
							HIST.SURV.	1109-1815-0149	11/05/96	7M	
104821		835 ONEONTA DR		SOUTH PASADENA	P	1981	HIST.SURV.	1109-1815-0150	11/05/96	7M	
104822		839 ONEONTA DR		SOUTH PASADENA	P	1982	HIST.SURV.	1109-1815-0151	11/05/96	7M	
104823		840 ONEONTA DR		SOUTH PASADENA	P	1989	HIST.SURV.	1109-1815-0152	11/05/96	7M	
104824		842 ONEONTA DR		SOUTH PASADENA	P	1948	HIST.SURV.	1109-1815-0153	11/05/96	7M	
104825		846 ONEONTA DR		SOUTH PASADENA	P	1958	HIST.SURV.	1109-1815-0154	11/05/96	7M	
104826		849 ONEONTA DR		SOUTH PASADENA	P	1988	HIST.SURV.	1109-1815-0155	11/05/96	7M	
104827		850 ONEONTA DR		SOUTH PASADENA	P	1981	HIST.SURV.	1109-1815-0156	11/05/96	7M	
104828		851 ONEONTA DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0157	11/05/96	7M	
104829		854 ONEONTA DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0158	11/05/96	7M	
104830		855 ONEONTA DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0159	11/05/96	7M	
104831		857 ONEONTA DR		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0274-0000	12/16/04	7R	
							HIST.SURV.	1109-1815-0160	11/05/96	7M	
104832		858 ONEONTA DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0161	11/05/96	7M	
104833		861 ONEONTA DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0162	11/05/96	7M	
104834		863 ONEONTA DR		SOUTH PASADENA	P	1937	HIST.SURV.	1109-1815-0163	11/05/96	7M	
104835		872 ONEONTA DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0164	11/05/96	7M	
104836		882 ONEONTA DR		SOUTH PASADENA	P	1926	HIST.SURV.	1109-1815-0165	11/05/96	7M	
104837		885 ONEONTA DR		SOUTH PASADENA	S	1924	HIST.SURV.	1109-1815-0166	11/05/96	7M	
150875		1409 ONEONTA KNOLL		SOUTH PASADENA	P	1936	HIST.SURV.	1030-0275-0000	12/16/04	7R	
150877		1424 ONEONTA KNOLL		SOUTH PASADENA	P	1937	HIST.SURV.	1030-0276-0000	12/16/04	7R	
150878		1429 ONEONTA KNOLL		SOUTH PASADENA	P	1936	HIST.SURV.	1030-0277-0000	12/16/04	7R	
150879		1509 ONEONTA KNOLL		SOUTH PASADENA	P	1936	HIST.SURV.	1030-0278-0000	12/16/04	7R	
149757		ORANGE GROVE AVE	COBBLESTONE WALL	SOUTH PASADENA		1900	HIST.SURV.	1030-0056-0039	09/24/04	5S2	
030162	19-179473	201 ORANGE GROVE AVE	MARINS S DANIELS HOUSE, ANNA B McK	SOUTH PASADENA	P	1887	HIST.SURV.	1030-0003-0000		7N	
030163	19-179474	215 ORANGE GROVE AVE	PORTER HOUSE	SOUTH PASADENA	P	1875	HIST.SURV.	1030-0004-0000		3S	
030350	19-179659	220 ORANGE GROVE AVE	THOMSON HOUSE, GARRISON HOUSE	SOUTH PASADENA	P	1913	HIST.SURV.	1030-0053-0000		3S	
+064905		220 ORANGE GROVE AVE	THOMSON HOUSE	SOUTH PASADENA	U		HIST.RES.	DOE-19-86-0079-0000	09/17/86	2S2	C
							PROJ.REVW.	FHWA841023A	09/17/86	2S2	C
+030362	19-179671	300 ORANGE GROVE AVE	STILLMAN B. JAMESON HOUSE	SOUTH PASADENA	P	1929	HIST.SURV.	1030-0056-0010	09/24/04	3D	
							PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0012	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0012		3S	
030363	19-179672	310 ORANGE GROVE AVE		SOUTH PASADENA	P	1953	HIST.SURV.	1030-0056-0011	09/24/04	7R	
							PROJ.REVW.	FHWA841023A	04/13/87	6Y	
							HIST.RES.	DOE-19-87-0007-0013	04/13/87	6Y	
							HIST.SURV.	1030-0054-0013		7R	
+030364	19-179673	320 ORANGE GROVE AVE	D. C. SMITH HOUSE	SOUTH PASADENA	P	1926	HIST.SURV.	1030-0056-0012	09/24/04	3D	
							PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0014	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0014		3S	
030365	19-179674	330 ORANGE GROVE AVE		SOUTH PASADENA	P	1955	HIST.SURV.	1030-0056-0013	09/24/04	7R	
							PROJ.REVW.	FHWA841023A	04/13/87	6Y	
							HIST.RES.	DOE-19-87-0007-0015	04/13/87	6Y	
							HIST.SURV.	1030-0054-0015		7R	
030366	19-179675	340 ORANGE GROVE AVE		SOUTH PASADENA	P	1952	HIST.SURV.	1030-0056-0014	09/24/04	7R	
							PROJ.REVW.	FHWA841023A	04/13/87	6Y	
							HIST.RES.	DOE-19-87-0007-0016		6Y	
							HIST.SURV.	1030-0054-0016		7R	
+030376	19-179685	400 ORANGE GROVE AVE	T.L. STEARNS HOUSE	SOUTH PASADENA	P	1926	HIST.SURV.	1030-0056-0015	09/24/04	3D	

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							PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0026	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0026		3S	
149736		410 ORANGE GROVE AVE		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0056-0016	09/24/04	3D	
149737		420 ORANGE GROVE AVE	C. E. TRACY HOUSE	SOUTH PASADENA	P	1927	HIST.SURV.	1030-0056-0017	09/24/04	3D	
149738		440 ORANGE GROVE AVE	R.L. LANGER HOUSE	SOUTH PASADENA	P	1928	HIST.SURV.	1030-0056-0018	09/24/04	3D	
149739		450 ORANGE GROVE AVE		SOUTH PASADENA	P	1928	HIST.SURV.	1030-0056-0019	09/24/04	3D	
149740		460 ORANGE GROVE AVE	I.F. GORDON HOUSE	SOUTH PASADENA	P	1928	HIST.SURV.	1030-0056-0020	09/24/04	3D	
+ 065380		506 ORANGE GROVE AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0056-0021	09/24/04	3D	
							HIST.RES.	DOE-19-87-0007-0033	09/28/87	2D2	C
							PROJ.REVW.	FHWA841023A	09/28/87	2D2	C
+ 065381		514 ORANGE GROVE AVE		SOUTH PASADENA	P	1926	HIST.SURV.	1030-0056-0022	09/24/04	3D	
							HIST.RES.	DOE-19-87-0007-0034	09/28/87	2D2	C
							PROJ.REVW.	FHWA841023A	09/28/87	2D2	C
+ 065382		524 ORANGE GROVE AVE		SOUTH PASADENA	P	1924	HIST.SURV.	1030-0056-0023	09/24/04	3D	
							HIST.RES.	DOE-19-87-0007-0035	09/28/87	2D2	C
							PROJ.REVW.	FHWA841023A	09/28/87	2D2	C
030346	19-179655	533 ORANGE GROVE AVE	ANNA S. BREED HOUSE	SOUTH PASADENA	P	1907	HIST.SURV.	1030-0049-0000		7R	
150881		804 ORANGE GROVE AVE		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0280-0000	12/16/04	7R	
150883		822 ORANGE GROVE AVE		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0281-0000	12/16/04	7R	
030164	19-179475	1016 ORANGE GROVE AVE	SOUTH PASADENA SCHOOLHOUSE	SOUTH PASADENA	P	1885	HIST.SURV.	1030-0005-0000		5S2	
150880		1104 ORANGE GROVE AVE		SOUTH PASADENA	P	1916	HIST.SURV.	1030-0279-0000	12/16/04	7R	
125581		809 ORANGE GROVE PL		SOUTH PASADENA	U	1923	HIST.RES.	DOE-19-98-0357-0000	05/11/98	6Y	
							PROJ.REVW.	HUD980511I	05/11/98	6Y	
125682		825 ORANGE GROVE PL		SOUTH PASADENA	U	1925	HIST.RES.	DOE-19-98-0372-0000	08/21/98	6Y	
							PROJ.REVW.	HUD980821J	08/21/98	6Y	
066492		8254 ORANGE GROVE PL		SOUTH PASADENA	U		PROJ.REVW.	HUD880208K	03/16/88	6Y	
150884		1508 OXLEY ST		SOUTH PASADENA	P	1910	HIST.SURV.	1030-0282-0000	12/16/04	7R	
150886		1023 PALM ST		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0283-0000	12/16/04	7R	
150887		1033 PALM ST		SOUTH PASADENA	P	1905	HIST.SURV.	1030-0284-0000	12/16/04	7R	
150888		710 PARK AVE		SOUTH PASADENA	P	1941	HIST.SURV.	1030-0285-0000	12/16/04	7R	
150893		811 PARK AVE		SOUTH PASADENA	P	1920	HIST.SURV.	1030-0286-0000	12/16/04	7R	
150894		815 PARK AVE		SOUTH PASADENA	P	1920	HIST.SURV.	1030-0287-0000	12/16/04	7R	
150895		825 PARK AVE		SOUTH PASADENA	P	1934	HIST.SURV.	1030-0288-0000	12/16/04	7R	
150897		301 PASADENA AVE		SOUTH PASADENA	P	1914	HIST.SURV.	1030-0289-0000	12/16/04	7R	
150898		311 PASADENA AVE		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0290-0000	12/16/04	7R	
150899		315 PASADENA AVE		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0291-0000	12/16/04	7R	
150900		317 PASADENA AVE		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0292-0000	12/16/04	7R	
150901		325 PASADENA AVE		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0293-0000	12/16/04	7R	
150902		336 PASADENA AVE		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0294-0000	12/16/04	7R	
150903		337 PASADENA AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0295-0000	12/16/04	7R	
150904		340 PASADENA AVE		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0296-0000	12/16/04	7R	
150906		341 PASADENA AVE		SOUTH PASADENA	P	1914	HIST.SURV.	1030-0297-0000	12/16/04	7R	
150907		343 PASADENA AVE		SOUTH PASADENA	P	1917	HIST.SURV.	1030-0298-0000	12/16/04	7R	
150908		344 PASADENA AVE		SOUTH PASADENA	P	1906	HIST.SURV.	1030-0299-0000	12/16/04	7R	
150909		355 PASADENA AVE		SOUTH PASADENA	P	1913	HIST.SURV.	1030-0300-0000	12/16/04	7R	
153176		117 PETERSON AVE		SOUTH PASADENA		1934	PROJ.REVW.	HUD030710C	11/14/03	6U	
104838		1100 PINE ST		SOUTH PASADENA	P	1935	HIST.SURV.	1109-1815-0167	11/05/96	7M	
104839		1101 PINE ST		SOUTH PASADENA	S	1924	HIST.SURV.	1109-1815-0168	11/05/96	7M	
104840		1104 PINE ST		SOUTH PASADENA	P	1936	HIST.SURV.	1109-1815-0169	11/05/96	7M	
104841		1105 PINE ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0170	11/05/96	7M	
104842		1106 PINE ST		SOUTH PASADENA	PS	1924	HIST.SURV.	1109-1815-0171	11/05/96	7M	
104843		1110 PINE ST		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0172	11/05/96	7M	
104844		1111 PINE ST		SOUTH PASADENA	P	1941	HIST.SURV.	1109-1815-0173	11/05/96	7M	
104845		1115 PINE ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0174	11/05/96	7M	

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104846		1116 PINE ST		SOUTH PASADENA	P	1922	HIST.SURV.	1109-1815-0175	11/05/96	7M	
104847		1119 PINE ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0176	11/05/96	7M	
104848		1123 PINE ST		SOUTH PASADENA	P	1922	HIST.SURV.	1109-1815-0177	11/05/96	7M	
104849		1124 PINE ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0178	11/05/96	7M	
104850		1127 PINE ST		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0179	11/05/96	7M	
104851		1130 PINE ST		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0180	11/05/96	7M	
150910		1203 PINE ST		SOUTH PASADENA	P	1908	HIST.SURV.	1030-0301-0000	12/16/04	7R	
150911		1300 PINE ST		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0302-0000	12/16/04	7R	
125683		2104 PINE ST		SOUTH PASADENA	U	1922	HIST.RES.	DOE-19-98-0373-0000	08/21/98	6Y	
							PROJ.REVW.	HUD980821J	08/21/98	6Y	
066534		2065 PRIMROSE AVE		SOUTH PASADENA	U	1929	PROJ.REVW.	HUD910630o	08/24/93	6Y	
							PROJ.REVW.	HUD880226O	04/06/88	6Y	
099618		511 PROSPECT AVE	A. D. GRAY HOUSE	SOUTH PASADENA	P	1926	HIST.RES.	DOE-19-95-0041-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
102634		545 PROSPECT AVE		SOUTH PASADENA	P	1948	HIST.RES.	DOE-19-96-0014-0000	02/07/96	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	6Y	
102635		547 PROSPECT AVE		SOUTH PASADENA	P	1948	HIST.RES.	DOE-19-96-0015-0000	02/07/96	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	6Y	
125580		604 PROSPECT AVE		SOUTH PASADENA	U	1907	HIST.RES.	DOE-19-98-0356-0000	05/11/98	6Y	
							PROJ.REVW.	HUD980511I	05/11/98	6Y	
+030383	19-179692	PROSPECT CR	PROSPECT CIRCLE TRACT, PROSPECT CI	SOUTH PASADENA	P	1926	PROJ.REVW.	FHWA841023A	04/13/87	2S2	C
							HIST.RES.	DOE-19-87-0007-9999	04/13/87	2S2	C
							HIST.SURV.	1030-0054-9999		3S	
+030351	19-179660	400 PROSPECT CR		SOUTH PASADENA	P	1937	PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0001	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0001		3S	
149742		400 PROSPECT CR		SOUTH PASADENA	P	1937	HIST.SURV.	1030-0056-0024	09/30/04	3D	
149743		401 PROSPECT CR	EDWARD BYRNE HOUSE	SOUTH PASADENA	P	1932	HIST.SURV.	1030-0056-0025	09/24/04	3D	
+030371	19-179680	401 PROSPECT CR	EDWARD BYRNE HOUSE	SOUTH PASADENA	P	1932	PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0021	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0021		3S	
+030352	19-179661	410 PROSPECT CR	MRS. E. E. AMBROSE HOUSE	SOUTH PASADENA	P	1926	PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0002	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0002		3S	
149744		410 PROSPECT CR	MRS. E. E. AMBROSE	SOUTH PASADENA	P	1926	HIST.SURV.	1030-0056-0026	09/24/04	3D	
149746		411 PROSPECT CR		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0056-0027	09/24/04	3D	
+030370	19-179679	411 PROSPECT CR	A. C. BUTTALPH, JR. HOUSE	SOUTH PASADENA	P	1927	PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0020	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0020		3S	
030353	19-179662	420 PROSPECT CR		SOUTH PASADENA	P	1957	PROJ.REVW.	FHWA841023A	04/13/87	6Y	
							HIST.RES.	DOE-19-87-0007-0003	04/13/87	6Y	
							HIST.SURV.	1030-0054-0003		7R	
149747		420 PROSPECT CR		SOUTH PASADENA	P	1951	HIST.SURV.	1030-0056-0028	09/24/04	6Z	
149748		425 PROSPECT CR	A. C. BUTTALPH, JR., HOUSE	SOUTH PASADENA	P	1928	HIST.SURV.	1030-0056-0029	09/24/04	3D	
+030369	19-179678	425 PROSPECT CR	PERCY & EMOGENE GRIFFIN HOUSE	SOUTH PASADENA	P	1928	PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0019	04/13/87	2D2	
							HIST.SURV.	1030-0054-0019		3S	
+030354	19-179663	430 PROSPECT CR	R.L. GABRIEL HOUSE	SOUTH PASADENA	P	1927	PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0004	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0004		3S	
149749		430 PROSPECT CR	PERCY & EMOGENE GRIFFIN HOUSE	SOUTH PASADENA	P	1927	HIST.SURV.	1030-0056-0030	09/24/04	3D	
149750		431 PROSPECT CR	LUCIAN M. WILLIAMS HOUSE	SOUTH PASADENA	P	1927	HIST.SURV.	1030-0056-0031	09/24/04	3D	
030368	19-179677	431 PROSPECT CR	LUCIAN M. WILLIAMS HOUSE	SOUTH PASADENA	P	1927	PROJ.REVW.	FHWA841023A	04/13/87	6Y	
							HIST.RES.	DOE-19-87-0007-0018	04/13/87	6Y	
							HIST.SURV.	1030-0054-0018		7R	
030367	19-179676	441 PROSPECT CR		SOUTH PASADENA	P	1953	PROJ.REVW.	FHWA841023A	04/13/87	6Y	

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							HIST.RES.	DOE-19-87-0007-0017	04/13/87	6Y	
							HIST.SURV.	1030-0054-0017		7R	
149751		441 PROSPECT CR		SOUTH PASADENA	P	1952	HIST.SURV.	1030-0056-0032	09/24/04	6Z	
149752		451 PROSPECT CR		SOUTH PASADENA	P	1954	HIST.SURV.	1030-0056-0033	09/24/04	6Z	
030375	19-179684	451 PROSPECT CR		SOUTH PASADENA	P	1954	PROJ.REVW.	FHWA841023A	04/13/87	6Y	
							HIST.RES.	DOE-19-87-0007-0025	04/03/87	6Y	
							HIST.SURV.	1030-0054-0025		7R	
030374	19-179683	461 PROSPECT CR		SOUTH PASADENA	P	1952	PROJ.REVW.	FHWA841023A	04/13/87	6Y	
							HIST.RES.	DOE-19-87-0007-0024	04/13/87	6Y	
							HIST.SURV.	1030-0054-0024		7R	
149753		461 PROSPECT CR		SOUTH PASADENA	P	1950	HIST.SURV.	1030-0056-0034	09/24/04	6Z	
149754		471 PROSPECT CR	H.A. WILCOX HOUSE	SOUTH PASADENA	P	1926	HIST.SURV.	1030-0056-0035	09/24/04	3D	
+030373	19-179682	471 PROSPECT CR	H.A. WILCOX HOUSE	SOUTH PASADENA	P	1926	PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0023	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0023		3S	
+ 030372	19-179681	481 PROSPECT CR	MARIE EMRY HOUSE	SOUTH PASADENA	P	1928	PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0022	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0022		3S	
149755		481 PROSPECT CR	MARIE EMRY HOUSE	SOUTH PASADENA	P	1927	HIST.SURV.	1030-0056-0036	09/24/04	3D	
149756		495 PROSPECT CR		SOUTH PASADENA	P	1938	HIST.SURV.	1030-0056-0037	09/30/04	6Z	
150912		829 ROLLIN ST		SOUTH PASADENA	P	1912	HIST.SURV.	1030-0303-0000	12/16/04	7R	
*+030304	19-179615	1301 S CHELTEN WY	MILTIMORE HOUSE	SOUTH PASADENA	P	1911	HIST.SURV.	1030-0321-0017	11/01/04	1S	
							HIST.RES.	NPS-72000235-0000	03/24/72	1S	
							HIST.SURV.	1030-0033-0000	01/01/72	1S	
+030377	19-179686	410 S ORANGE GROVE AVE	M. BROKAW HOUSE	SOUTH PASADENA	P	1927	PROJ.REVW.	FHWA641023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0027	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0027		3S	
+ 030378	19-179687	420 S ORANGE GROVE AVE	C. E. TRACY HOUSE	SOUTH PASADENA	P	1927	PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0028	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0028		3S	
030379	19-179688	430 S ORANGE GROVE AVE		SOUTH PASADENA	P	1982	PROJ.REVW.	FHWA841023A	04/13/87	6Y	
							HIST.RES.	DOE-19-87-0007-0029	04/13/87	6Y	
							HIST.SURV.	1030-0054-0029		7R	
+ 030380	19-179689	440 S ORANGE GROVE AVE	R.L. LANGER HOUSE	SOUTH PASADENA	P	1928	PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0030	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0030		3S	
+030381	19-179690	450 S ORANGE GROVE AVE	I.F. GORDON HOUSE	SOUTH PASADENA	P	1928	PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0031	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0031		3S	
+030382	19-179691	460 S ORANGE GROVE AVE	J.F. GORDON HOUSE	SOUTH PASADENA	P	1928	PROJ.REVW.	FHWA841023A	04/13/87	2D2	C
							HIST.RES.	DOE-19-87-0007-0032	04/13/87	2D2	C
							HIST.SURV.	1030-0054-0032		3S	
150913		221 SAN PASCUAL AVE		SOUTH PASADENA	P	1900	HIST.SURV.	1030-0304-0000	12/16/04	7R	
150915		308 SAN PASCUAL AVE		SOUTH PASADENA	P	1906	HIST.SURV.	1030-0305-0000	12/16/04	7R	
150916		21 SHORT WY		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0306-0000	12/16/04	7R	
150917		29 SHORT WY		SOUTH PASADENA	P	1904	HIST.SURV.	1030-0307-0000	12/16/04	7R	
150918		1519 SPRUCE ST		SOUTH PASADENA			HIST.SURV.	1030-0308-0000	12/16/04	7R	
+030334	19-179645	SR 11	ARROYO SECO PARKWAY	SOUTH PASADENA	S	1940	HIST.RES.	DOE-19-04-0233-0000	07/21/04	6Y	
							PROJ.REVW.	FHWA040616A	07/21/04	6Y	
							NAT.REG.	19-0428	07/08/08	7W	
							HIST.SURV.	1030-0037-9999	01/01/83	2S2	
030328	19-179639	SR 11	BRIDGE #53-435, ORANGE GROVE AVENU	SOUTH PASADENA	S	1938	HIST.SURV.	1030-0037-0021		3D	
030327	19-179638	SR 11	BRIDGE #53-434, GRAND AVENUE OVERC	SOUTH PASADENA	S	1938	HIST.SURV.	1030-0037-0020		3D	
030326	19-179637	SR 11	BRIDGE #53-433, ARROYO DRIVE OVERC	SOUTH PASADENA	S	1938	HIST.SURV.	1030-0037-0019		3D	
030325	19-179636	SR 11	BRIDGE #53-432, PEDESTRIAN EQUESTR	SOUTH PASADENA	S	1938	HIST.SURV.	1030-0037-0018		3D	
030324	19-179635	SR 11	BRIDGE #53-276, ARROYO SECO	SOUTH PASADENA	S	1939	HIST.SURV.	1030-0037-0017		3D	

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030323	19-179634	SR 11	BRIDGE #53-121, YORK BOULEVARD OVE	SOUTH PASADENA	S	1912	HIST.SURV.	1030-0037-0016		3D	
030322	19-179633	SR 11	BRIDGE #53-445, MARMION WAY OVERCR	SOUTH PASADENA	S	1939	HIST.SURV.	1030-0037-0015		3D	
030321	19-179632	SR 11	BRIDGE #53-886Y, ARROYO SECO MARIO	SOUTH PASADENA	S	1940	HIST.SURV.	1030-0037-0014		3D	
030329	19-179640	SR 11	BRIDGE #53-436, PROSPECT AVENUE OV	SOUTH PASADENA	S	1938	HIST.SURV.	1030-0037-0022		3D	
030330	19-179641	SR 11	BRIDGE #53-437, MERIDIAN AVENUE OV	SOUTH PASADENA	S	1940	HIST.SURV.	1030-0037-0023		3D	
030331	19-179642	SR 11	BRIDGE #53-438, FREMONT AVENUE OVE	SOUTH PASADENA	S	1939	HIST.SURV.	1030-0037-0024		3D	
030332	19-179643	SR 11	BRIDGE #53-439, FREMONT AVENUE UND	SOUTH PASADENA	S	1940	HIST.SURV.	1030-0037-0025		3D	
030333	19-179644	SR 11	BRIDGE #53-440, FAIR OAKS AVENUE O	SOUTH PASADENA	S	1940	HIST.SURV.	1030-0037-0026		3D	
030320	19-179631	SR 11	BRIDGE #53-431 / AVENUE 64 UNDERPA	SOUTH PASADENA	S	1895	HIST.SURV.	1030-0037-0013		3D	
030308	19-179619	SR 11	BRIDGE #53-533L, FIGUEROA STREET O	SOUTH PASADENA	S	1940	HIST.SURV.	1030-0037-0001		3D	
030309	19-179620	SR 11	BRIDGE #53-372, AVENUE 26 OVERCROS	SOUTH PASADENA	S	1925	HIST.SURV.	1030-0037-0002		3D	
030310	19-179621	SR 11	BRIDGE #53-425, AVENUE 35 UNDERPAS	SOUTH PASADENA	S	1939	HIST.SURV.	1030-0037-0003		3D	
030319	19-179630	SR 11	BRIDGE #53-988Y / PEDESTRIAN UNDER	SOUTH PASADENA	S	1940	HIST.SURV.	1030-0037-0012		3D	
030318	19-179629	SR 11	BRIDGE #53-986Y / ARROYO SECO RAMP	SOUTH PASADENA	S	1940	HIST.SURV.	1030-0037-0011		3D	
030317	19-179628	SR 11	BRIDGE #53-430 / OVERCROSSING / AV	SOUTH PASADENA	S	1938	HIST.SURV.	1030-0037-0010		3D	
030316	19-179627	SR 11	BRIDGE #53-429, HERMON AVENUE OVER	SOUTH PASADENA	S	1939	HIST.SURV.	1030-0037-0009		3D	
030315	19-179626	SR 11	BRIDGE #53-428 / AVENUE 52 OVERCRO	SOUTH PASADENA	S	1939	HIST.SURV.	1030-0037-0008		3D	
030314	19-179625	SR 11	BRIDGE #53-344, SYCAMORE GROVE PED	SOUTH PASADENA	S	1939	HIST.SURV.	1030-0037-0007		3D	
030313	19-179624	SR 11	BRIDGE #53-427 / AVENUE 43 OVERCRO	SOUTH PASADENA	S	1939	HIST.SURV.	1030-0037-0006		3D	
030312	19-179623	SR 11	BRIDGE #53-985Y / ARROYO SECO AVEN	SOUTH PASADENA	S	1940	HIST.SURV.	1030-0037-0005		3D	
030311	19-179622	SR 11	BRIDGE #53-426, PASADENA AVENUE OV	SOUTH PASADENA	S	1940	HIST.SURV.	1030-0037-0004		3D	
150919		217 ST ALBANS AVE		SOUTH PASADENA	P	1925	HIST.SURV.	1030-0309-0000	12/16/04	7R	
150920		260 ST ALBANS AVE		SOUTH PASADENA	P	1940	HIST.SURV.	1030-0310-0000	12/16/04	7R	
150921		294 ST ALBANS AVE		SOUTH PASADENA	P	1939	HIST.SURV.	1030-0311-0000	12/16/04	7R	
150922		614 STRATFORD AVE		SOUTH PASADENA	P	1927	HIST.SURV.	1030-0312-0000	12/16/04	7R	
150923		622 STRATFORD AVE		SOUTH PASADENA	P	1922	HIST.SURV.	1030-0313-0000	12/16/04	7R	
150925		626 STRATFORD AVE		SOUTH PASADENA	P	1921	HIST.SURV.	1030-0314-0000	12/16/04	7R	
150986		630 STRATFORD AVE		SOUTH PASADENA	P	1923	HIST.SURV.	1030-0315-0000	12/16/04	7R	
104854		809 SUMMIT DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0181	11/05/96	7M	
104856		810 SUMMIT DR		SOUTH PASADENA	P	1979	HIST.SURV.	1109-1815-0182	11/05/96	7M	
104858		812 SUMMIT DR		SOUTH PASADENA	P	1949	HIST.SURV.	1109-1815-0183	11/05/96	7M	
104859		813 SUMMIT DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0184	11/05/96	7M	
104861		817 SUMMIT DR		SOUTH PASADENA	P	1927	HIST.SURV.	1109-1815-0185	11/05/96	7M	
104862		818 SUMMIT DR		SOUTH PASADENA	P	1952	HIST.SURV.	1109-1815-0186	11/05/96	7M	
104863		821 SUMMIT DR		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0187	11/05/96	7M	
104864		822 SUMMIT DR		SOUTH PASADENA	P	1927	HIST.SURV.	1109-1815-0188	11/05/96	7M	
104865		825 SUMMIT DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0189	11/05/96	7M	
107573		825 SUMMIT DR		SOUTH PASADENA	P	1925	HIST.RES.	DOE-19-97-0001-0056	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
107574		826 SUMMIT DR		SOUTH PASADENA	P	1922	HIST.RES.	DOE-19-97-0001-0057	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
104866		826 SUMMIT DR		SOUTH PASADENA	P	1948	HIST.SURV.	1109-1815-0190	11/05/96	7M	
104867		900 SUMMIT DR		SOUTH PASADENA	P	1941	HIST.RES.	DOE-19-96-0087	02/27/96	6Y	
							PROJ.REVW.	FHWA830201A	02/27/96	6Y	
							HIST.SURV.	1109-1815-0191	11/05/96	7M	
107575		900 SUMMIT DR		SOUTH PASADENA	P	1942	HIST.RES.	DOE-19-97-0001-0058	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
107576		901 SUMMIT DR		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0059	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
104916		901 SUMMIT DR		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-96-0086-0000	02/27/96	6Y	
							PROJ.REVW.	FHWA830201A	02/27/96	6Y	
							HIST.SURV.	1109-1815-0192	11/07/96	7M	
104917		905 SUMMIT DR		SOUTH PASADENA	S	1950	HIST.SURV.	1109-1815-0193	11/07/96	7M	
107577		907 SUMMIT DR		SOUTH PASADENA	S	1951	HIST.RES.	DOE-19-97-0001-0060	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
107583		908 SUMMIT DR		SOUTH PASADENA	P	1925	HIST.RES.	DOE-19-97-0001-0061	02/24/97	6Y	

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							PROJ.REVW.	FHWA830201A	09/11/96	7M	
104918		908 SUMMIT DR		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0194	11/07/96	7M	
099938		909 SUMMIT DR	BELLMAR COURT	SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0062	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/01/96	7M	
							HIST.RES.	DOE-19-95-0042-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
							PROJ.REVW.	65008889	11/20/95		
104919		909 SUMMIT DR		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0195	11/07/96	7M	
099619		912 SUMMIT DR	ROBERT DICKANSON HOUSE	SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0001-0063	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.RES.	DOE-19-95-0043-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
104920		912 SUMMIT DR		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0196	11/07/96	7M	
104921		916 SUMMIT DR		SOUTH PASADENA	P	1940	HIST.SURV.	1109-1815-0197	11/07/96	7M	
107585		916 SUMMIT DR		SOUTH PASADENA	P	1940	HIST.RES.	DOE-19-97-0001-0064	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
099620		917 SUMMIT DR	J.M. BABER HOUSE	SOUTH PASADENA	P	1923	HIST.RES.	DOE-19-97-0001-0065	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.RES.	DOE-19-95-0044-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
104922		917 SUMMIT DR		SOUTH PASADENA	P	1923	HIST.SURV.	1109-1815-0198	11/07/96	7M	
104923		920 SUMMIT DR		SOUTH PASADENA	P	1926	HIST.SURV.	1109-1815-0199	11/07/96	7M	
107563		920 SUMMIT DR		SOUTH PASADENA	P	1926	HIST.RES.	DOE-19-97-0001-0047	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
099621		921 SUMMIT DR	J.G. MAY HOUSE	SOUTH PASADENA	P	1920	HIST.RES.	DOE-19-97-0001-0066	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
							HIST.RES.	DOE-19-95-0045-0000	11/20/95	6Y	
							PROJ.REVW.	FHWA830201A	03/07/95	7M	
104925		921 SUMMIT DR		SOUTH PASADENA	P	1928	HIST.SURV.	1109-1815-0200	11/07/96	7M	
109855		808 VALLEY VIEW RD		SOUTH PASADENA	P	1950	HIST.RES.	DOE-19-97-0002-0068	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109856		812 VALLEY VIEW RD		SOUTH PASADENA	P	1938	HIST.RES.	DOE-19-97-0002-0069	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109857		816 VALLEY VIEW RD		SOUTH PASADENA	P	1924	HIST.RES.	DOE-19-97-0002-0070	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109858		818 VALLEY VIEW RD		SOUTH PASADENA	P	1925	HIST.RES.	DOE-19-97-0002-0071	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109859		822 VALLEY VIEW RD		SOUTH PASADENA	P	1938	HIST.RES.	DOE-19-97-0002-0072	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109860		830 VALLEY VIEW RD		SOUTH PASADENA	P	1910	HIST.RES.	DOE-19-97-0002-0073	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109861		900 VALLEY VIEW RD		SOUTH PASADENA	P	1921	HIST.RES.	DOE-19-97-0002-0074	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
109862		904 VALLEY VIEW RD		SOUTH PASADENA	P	1925	HIST.RES.	DOE-19-97-0002-0075	02/24/97	6Y	
							PROJ.REVW.	FHWA830201A	09/11/96	7M	
150987		1400 VIA DEL REY		SOUTH PASADENA	P	1964	HIST.SURV.	1030-0316-0000	12/16/04	7R	
177073		1401 WAYNE AVE		SOUTH PASADENA	P	1911	HIST.SURV.	1030-0321-0032	11/01/04	6Z	
104926		901 WOLFORD LANE		SOUTH PASADENA	P	1927	HIST.SURV.	1109-1815-0201	11/07/96	7M	
104927		902 WOLFORD LANE		SOUTH PASADENA	P	1925	HIST.SURV.	1109-1815-0202	11/07/96	7M	
104928		906 WOLFORD LANE		SOUTH PASADENA	P	1941	HIST.SURV.	1109-1815-0203	11/07/96	7M	
104929		907 WOLFORD LANE		SOUTH PASADENA	P	1924	HIST.SURV.	1109-1815-0204	11/07/96	7M	
069666		7406 GRAVES AVE		SOUTH SAN GABRIEL	U	1930	HIST.RES.	DOE-19-90-0072-0000	11/27/90	6Y	
							PROJ.REVW.	FHWA901114A	11/27/90	6Y	
069668		7852 GRAVES AVE		SOUTH SAN GABRIEL	U	1926	HIST.RES.	DOE-19-90-0074-0000	11/27/90	6Y	
							PROJ.REVW.	FHWA901114A	11/27/90	6Y	

SCCIC Bibliography: Unmappables

LA-02815

Author(s): King, Chester
Year: 1993
Title: Native American Placenames in the Vicinity of the Pacific Pipeline Part 1: the Los Angeles Basin
Affiliation: Topanga Anthropological Consultants
Resources:
Quads: LONG BEACH, LOS ANGELES, OAT MOUNTAIN, SAN FERNANDO, SOUTH GATE
Pages: 48
Notes: Mapped to quads in Other Reports.

LA-03497

Author(s): Anonymous
Year: 1994
Title: Draft Supplemental Environmental Impact Report Pasadena-los Angeles Light Rail Transit Project
Affiliation: Tetra Tech, Inc.
Resources:
Quads: LOS ANGELES, MT WILSON, PASADENA
Pages:
Notes: Indexed. no specific location map provided.

LA-03498

Author(s): Anonymous
Year: 1994
Title: Final Supplemental Environmental Impact Report Pasadena-los Angeles Light Rail Transit Project
Affiliation: Tetra Tech, Inc.
Resources:
Quads: LOS ANGELES, MT WILSON, PASADENA
Pages:
Notes: Indexed. No specific location map provided.

LA-03511

Author(s): Romani, John F.
Year: 1977
Title: Assessment of the Archaeological Impact by the Development of the Waste Water Facilities Plan W.o. 31389
Affiliation: Northridge Archaeological Research Center, CSUN
Resources: 19-000009, 19-000043, 19-000053, 19-000055, 19-000056, 19-000057, 19-000058, 19-000061, 19-000062, 19-000064, 19-000065, 19-000068, 19-000203, 19-000204, 19-000206, 19-000211, 19-000212, 19-000343
Quads: ACTON, ADOBE MTN, AGUA DULCE, ALPINE BUTTE, AZUSA, BALDWIN PARK, BEVERLY HILLS, BLACK MTN, BURBANK, BURNT PEAK, CALABASAS, CANOGA PARK, CHILAO FLAT, COBBLESTONE MTN, CONDOR PEAK, CRYSTAL LAKE, DEL SUR, EL MIRAGE, EL MONTE, FAIRMONT BUTTE, FRAZIER MOUNTAIN, GLENDORA, GREEN VALLEY, HI VISTA, HOLLYWOOD, INGLEWOOD, JACKRABBIT HILL, JUNIPER HILLS, LA HABRA, LA LIEBRE RANCH, LAKE HUGHES, LANCASTER EAST, LANCASTER WEST, LEBEC, LIEBRE MTN, LITTLE BUTTES, LITTLEROCK, LONG BEACH, LOS ALAMITOS, LOS ANGELES, LOVEJOY BUTTES, MALIBU BEACH, MESCAL CREEK, MINT CANYON, MOUNT SAN ANTONIO, MT BALDY, MT WILSON, NEENACH SCHOOL, NEWBURY PARK, NEWHALL, OAT MOUNTAIN, ONTARIO, PACIFICO MOUNTAIN, PALMDALE, PASADENA, POINT DUME, REDMAN, REDONDO BEACH, RITTER RIDGE, ROGERS LAKE SOUTH, ROSAMOND, ROSAMOND LAKE, SAN DIMAS, SAN FERNANDO, SAN PEDRO, SANTA SUSANA, SLEEPY VALLEY, SOUTH GATE, SUNLAND, THOUSAND OAKS, TOPANGA, TORRANCE, TRIUNFO PASS, VAL VERDE, VALYERMO, VAN NUYS, VENICE, WARM SPRINGS MOUNTAIN, WATERMAN MTN, WHITAKER PEAK, WHITTIER, YORBA LINDA
Pages: 18
Notes: Mapped to entire LA County in Other Reports layer, GIS

SCCIC Bibliography: Unmappables

LA-03584

Author(s): MacDonald, Lenora Johnson
Year: 1931
Title: Our Pioneer Mother
Affiliation: None
Resources:
Quads: LOS ANGELES, SAN FERNANDO
Pages:
Notes: Unmappable. Mentions areas in downtown Los Angeles, the San Fernando Valley, and Chatsworth.

LA-03654

Author(s): Wessel, Richard L.
Year: 1976
Title: Assessment of the Archaeological Impact by the Development of Tract No. 32069
Affiliation: Northridge Archaeological Research Center, CSUN
Resources:
Quads: PASADENA
Pages: 12
Notes: Mapped to tract map from lacounty.gov

LA-03773

Author(s): Singer, Clay A.
Year: 1978
Title: Preliminary Assessment of Potential Impacts and Evaluation of Cultural Resources Along Proposed Transit System Alignment Alternatives in the City of Los Angeles, Los Angeles County, California
Affiliation: Archaeological Resource Management Corp.
Resources: 19-000007, 19-000159
Quads: BEVERLY HILLS, BURBANK, HOLLYWOOD
Pages: 18
Notes: Mapped to Van Nuys, Hollywood, and Los Angeles quads in Other Reports.

LA-03815

Author(s): Iverson, Gary
Year: 1996
Title: Seismically Retrofitting the La Canada Arch Bridge (#53-0061), Slide Canyon Bridge (#53-0063), and the Woodwardia Canyon Bridge (#53-0086) on State Route 2 in Los Angeles County, California
Affiliation: Caltrans
Resources:
Quads: CONDOR PEAK, PASADENA
Pages: 6
Notes:

SCCIC Bibliography: Unmappables

LA-04323

Author(s): Hill, James N.
Year: 1985
Title: Cultural Evolution in the Archaic/mesolithic: a Research Design for the Los Angeles Basin
Affiliation: Archaeological Resource Management Corp.
Resources:
Quads: ACTON, ADOBE MTN, AGUA DULCE, ALPINE BUTTE, AZUSA, BALDWIN PARK, BEVERLY HILLS, BLACK MTN, BURBANK, BURNT PEAK, CALABASAS, CANOGA PARK, CHILAO FLAT, COBBLESTONE MTN, CONDOR PEAK, CRYSTAL LAKE, DEL SUR, EL MIRAGE, EL MONTE, FAIRMONT BUTTE, FRAZIER MOUNTAIN, GLENDORA, GREEN VALLEY, HI VISTA, HOLLYWOOD, INGLEWOOD, JACKRABBIT HILL, JUNIPER HILLS, LA HABRA, LA LIEBRE RANCH, LAKE HUGHES, LANCASTER EAST, LANCASTER WEST, LEBEC, LIEBRE MTN, LITTLE BUTTES, LITTLEROCK, LONG BEACH, LOS ALAMITOS, LOS ANGELES, LOVEJOY BUTTES, MALIBU BEACH, MESCAL CREEK, MINT CANYON, MOUNT SAN ANTONIO, MT BALDY, MT WILSON, NEENACH SCHOOL, NEWBURY PARK, NEWHALL, OAT MOUNTAIN, ONTARIO, PACIFICO MOUNTAIN, PALMDALE, PASADENA, POINT DUME, REDMAN, REDONDO BEACH, RITTER RIDGE, ROGERS LAKE SOUTH, ROSAMOND, ROSAMOND LAKE, SAN DIMAS, SAN FERNANDO, SAN PEDRO, SANTA SUSANA, SLEEPY VALLEY, SOUTH GATE, SUNLAND, THOUSAND OAKS, TOPANGA, TORRANCE, TRIUNFO PASS, VAL VERDE, VALYERMO, VAN NUYS, VENICE, WARM SPRINGS MOUNTAIN, WATERMAN MTN, WHITAKER PEAK, WHITTIER, YORBA LINDA
Pages: 124
Notes: Mapped to entire LA County (except islands) in Other Reports.

LA-04469

Author(s): Romani, John F.
Year: 1977
Title: Assessment of the Archaeological Impact by the Installation of a Sewer Pipeline in La Crescenta and Glendale
Affiliation: California State University, Northridge
Resources:
Quads: PASADENA
Pages:
Notes: Unmappable

LA-05737

Author(s): McNiel, Steve
Year: 1995
Title: A Programmatic Approach for Identifying and Evaluating Recreation Residences on the Angeles National Forest, Region 5 - California, Millard Summer Home Tract
Affiliation: University of California, Davis
Resources: 19-186879
Quads: PASADENA
Pages: 55
Notes: Mapped to LA-1603

LA-05840

Author(s): Vance, Darrell W.
Year: 2000
Title: (Duplicate of LA-05234) Cultural Resource Evaluation of the Arroyo Canyon Bailey and King Post #4 Bridges
Affiliation: Heritage Resources Section, Angeles National Forest Service
Resources:
Quads:
Pages:
Notes: Voided, duplicate of LA-05234

SCCIC Bibliography: Unmappables

LA-06384

Author(s): Unknown
Year: 2002
Title: Los Angeles Unified School District Expansion of Wilson High School Facilities at 4590 Multnomah Street in the City of Los Angeles
Affiliation: McKenna et al.
Resources:
Quads: LOS ANGELES
Pages:
Notes: Unmapable, no map

LA-07425

Author(s): McMorris, Christopher
Year: 2004
Title: City of Los Angeles Monumental Bridges 1900-1950: Historic Context and Evaluation Guidelines
Affiliation: JRP Historical Consulting
Resources:
Quads: HOLLYWOOD, LOS ANGELES, SAN PEDRO
Pages:
Notes: See oversized reports

LA-07564

Author(s): Greenwood, Roberta S.
Year: 1998
Title: Archaeological Status Report: Collections and Reports
Affiliation: Greenwood and Associates
Resources: 19-001575, 19-001945, 19-002393, 19-002394, 19-002563
Quads: HOLLYWOOD, LOS ANGELES
Pages:
Notes:

LA-07568

Author(s): Bernor, Raymond L.
Year: 1978
Title: Palaeontological Resource Survey and Impact Evaluation for a Proposed Rapid Transit System in the City of Los Angeles, Los Angeles County, California
Affiliation: Archaeological Resource Management Corp.
Resources: 19-000009, 19-000159
Quads: BURBANK, HOLLYWOOD, LOS ANGELES
Pages: 11
Notes: Mapped to Van Nuys, Hollywood, and Los Angeles quads in Other Reports.

SCCIC Bibliography: Unmappables

LA-07570

Author(s): Noiron, Judy
Year: 2005
Title: Historic Context Statement the Southern California Transmission/distribution Line Systems Within the Angeles National Forest
Affiliation: U.S. Forest Service
Resources:
Quads: ACTON, AGUA DULCE, AZUSA, BLACK MTN, BURNT PEAK, CHILAO FLAT, COBBLESTONE MTN, CONDOR PEAK, CRYSTAL LAKE, DEL SUR, GLENDORA, GREEN VALLEY, JUNIPER HILLS, LAKE HUGHES, LEBEC, LIEBRE MTN, MESCAL CREEK, MINT CANYON, MOUNT SAN ANTONIO, MT BALDY, MT WILSON, NEWHALL, PACIFICO MOUNTAIN, PASADENA, PIRU, SAN FERNANDO, SLEEPY VALLEY, SUNLAND, VAL VERDE, VALYERMO, WARM SPRINGS MOUNTAIN, WATERMAN MTN, WHITAKER PEAK
Pages: 28
Notes: Previously unmappable, mapped as Other Report and removed from unmappable folder

LA-07826

Author(s): Shepard, Richard S. and Roger D. Mason
Year: 2001
Title: Cultural Resources Records Search and Constraints Analysis Report: LAX/South (Orange County) High Speed Ground Access Study, Los Angeles and Orange Counties, California
Affiliation: Chambers Group, Inc.
Resources: 19-000088, 19-000831, 19-001575, 30-000062, 30-000113, 30-000195, 30-000373, 30-001352, 30-001538
Quads: ANAHEIM, BEVERLY HILLS, EL TORO, HOLLYWOOD, INGLEWOOD, LONG BEACH, LOS ALAMITOS, LOS ANGELES, NEWPORT BEACH, ORANGE, SEAL BEACH, SOUTH GATE, TORRANCE, TUSTIN, VENICE, WHITTIER
Pages: 21
Notes: Also OR-3267

LA-10430

Author(s): Cook, John, Huntley, Deborah, and Andrews, Sherri
Year: 2000
Title: A Cultural Resources Inventory of the Proposed PF. Net/AT&T Fiber Optics Conduit Los Angeles to Marine Corps Base Camp Pendleton, Los Angeles and Orange Counties, California
Affiliation: ASM Affiliates, Inc.
Resources: 19-002753, 19-002795, 19-166921, 19-167276, 19-186110, 30-000021, 30-000022, 30-000188, 30-000375, 30-000392, 30-000519, 30-000599, 30-000835, 30-000836, 30-000837, 30-000838, 30-000855, 30-000856, 30-000924, 30-001107, 30-001190, 30-001191, 30-001278, 30-001279, 30-001327, 30-001328, 30-001329, 30-001330, 30-001337, 30-001338, 30-001343, 30-001507, 30-001508, 30-120015, 30-120016, 30-120017, 30-150081, 30-150082, 30-150083, 30-162531, 30-176486, 30-176573, 30-176610, 30-176615
Quads: ANAHEIM, DANA POINT, HOLLYWOOD, LOS ALAMITOS, LOS ANGELES, SAN CLEMENTE, SAN JUAN CAPISTRANO
Pages: 76
Notes: Also OR-03861. Mapped to sites listed on pg. 31-32 in Other Reports. Union Pacific railroad is also mentioned in the report, however not mapped due to the inability to map linears in Other Reports.

SCCIC Bibliography: Unmappables

LA-10991

Author(s): T. Grimes
Year: 2001
Title: East Colorado Boulevard, Specific Plan, Historic Resources Survey
Affiliation:
Resources: 19-180733, 19-180736, 19-183128, 19-183146, 19-183147, 19-183151, 19-183152, 19-183153, 19-183162, 19-183165, 19-183166, 19-183168, 19-183175, 19-183177, 19-183178, 19-183182, 19-183185, 19-183186, 19-183187, 19-183192, 19-183195, 19-183196, 19-183482, 19-183487, 19-183489, 19-184677, 19-184975, 19-189209, 19-189213, 19-189214, 19-189215, 19-189216, 19-189217, 19-189218, 19-189219, 19-189220, 19-189221, 19-189222, 19-189223, 19-189224, 19-189225, 19-189226, 19-189227, 19-189228, 19-189229, 19-189230, 19-189231, 19-189232, 19-189233, 19-189234, 19-189235, 19-189236
Quads: MT WILSON, PASADENA
Pages: 19
Notes:

LA-11484

Author(s): Walker, E.F. and Robinson, Eugene
Year:
Title: Partial List of Indian Village Sites in Lost [sic] Angeles County, with a few in Orange County. (Information from Eugene Robinson, Handwritten, in "Reconnaissance Sites 15F" looseleaf notbook of Mr. E.F. Walker, Southwest Museum, Los Angeles, California
Affiliation: Southwest Museum
Resources:
Quads: AZUSA, BALDWIN PARK, BEVERLY HILLS, CALABASAS, CHILAO FLAT, CONDOR PEAK, INGLEWOOD, LONG BEACH, LOS ALAMITOS, LOS ANGELES, MT WILSON, REDONDO BEACH, SAN PEDRO, SANTA CATALINA EAST, SUNLAND, TOPANGA, TORRANCE, VENICE
Pages: 6
Notes: Mapped to quads in GIS as Other Report. Also recorded as OR4157

LA-11747

Author(s): Sakai, Rodney
Year: 2006
Title: Programmatic Agreement Compliance Report, twenty-first Reporting Period, July 1, 2005-- March 31, 2006
Affiliation: Historic Resources Group
Resources:
Quads: ACTON, ADOBE MTN, AGUA DULCE, ALPINE BUTTE, AZUSA, BALDWIN PARK, BEVERLY HILLS, BLACK MTN, BURBANK, BURNT PEAK, CALABASAS, CANOGA PARK, CHILAO FLAT, COBBLESTONE MTN, CONDOR PEAK, CRYSTAL LAKE, DEL SUR, EL MIRAGE, EL MONTE, FAIRMONT BUTTE, FRAZIER MOUNTAIN, GLENDORA, GREEN VALLEY, HI VISTA, HOLLYWOOD, INGLEWOOD, JACKRABBIT HILL, JUNIPER HILLS, LA HABRA, LA LIEBRE RANCH, LAKE HUGHES, LANCASTER EAST, LANCASTER WEST, LEBEC, LIEBRE MTN, LITTLE BUTTES, LITTLEROCK, LONG BEACH, LOS ALAMITOS, LOS ANGELES, LOVEJOY BUTTES, MALIBU BEACH, MESCAL CREEK, MINT CANYON, MOUNT SAN ANTONIO, MT BALDY, MT WILSON, NEENACH SCHOOL, NEWBURY PARK, NEWHALL, OAT MOUNTAIN, ONTARIO, PACIFICO MOUNTAIN, PALMDALE, PASADENA, POINT DUME, REDMAN, REDONDO BEACH, RITTER RIDGE, ROGERS LAKE SOUTH, ROSAMOND, ROSAMOND LAKE, SAN DIMAS, SAN FERNANDO, SAN PEDRO, SANTA SUSANA, SLEEPY VALLEY, SOUTH GATE, SUNLAND, THOUSAND OAKS, TOPANGA, TORRANCE, TRIUNFO PASS, VAL VERDE, VALYERMO, VAN NUYS, VENICE, WARM SPRINGS MOUNTAIN, WATERMAN MTN, WHITAKER PEAK, WHITTIER, YORBA LINDA
Pages: 80
Notes: Mapped to entire LA County in Other Reports layer

SCCIC Bibliography: Unmappables

LA-11748

Author(s): Sakai, Rodney
Year: 2003
Title: Programmatic Agreement Compliance Report Fifteenth Reporting Period July 1-- December 31, 2002
Affiliation: SHPO & Advisory Council on Hitsoric Preservation
Resources:
Quads: ACTON, ADOBE MTN, AGUA DULCE, ALPINE BUTTE, AZUSA, BALDWIN PARK, BEVERLY HILLS, BLACK MTN, BURBANK, BURNT PEAK, CALABASAS, CANOGA PARK, CHILAO FLAT, COBBLESTONE MTN, CONDOR PEAK, CRYSTAL LAKE, DEL SUR, EL MIRAGE, EL MONTE, FAIRMONT BUTTE, FRAZIER MOUNTAIN, GLENDORA, GREEN VALLEY, HI VISTA, HOLLYWOOD, INGLEWOOD, JACKRABBIT HILL, JUNIPER HILLS, LA HABRA, LA LIEBRE RANCH, LAKE HUGHES, LANCASTER EAST, LANCASTER WEST, LEBEC, LIEBRE MTN, LITTLE BUTTES, LITTLEROCK, LONG BEACH, LOS ALAMITOS, LOS ANGELES, LOVEJOY BUTTES, MALIBU BEACH, MESCAL CREEK, MINT CANYON, MOUNT SAN ANTONIO, MT BALDY, MT WILSON, NEENACH SCHOOL, NEWBURY PARK, NEWHALL, OAT MOUNTAIN, ONTARIO, PACIFICO MOUNTAIN, PALMDALE, PASADENA, POINT DUME, REDMAN, REDONDO BEACH, RITTER RIDGE, ROGERS LAKE SOUTH, ROSAMOND, ROSAMOND LAKE, SAN DIMAS, SAN FERNANDO, SAN PEDRO, SANTA SUSANA, SLEEPY VALLEY, SOUTH GATE, SUNLAND, THOUSAND OAKS, TOPANGA, TORRANCE, TRIUNFO PASS, VAL VERDE, VALYERMO, VAN NUYS, VENICE, WARM SPRINGS MOUNTAIN, WATERMAN MTN, WHITAKER PEAK, WHITTIER, YORBA LINDA
Pages: 55
Notes: Mapped to entire LA County in Other Reports layer

LA-11778

Author(s): Contreras, Thomas
Year: 2011
Title: Santa Clara Watershed Invasive Plant Treatment Project on the Santa Clara river/Mojave Ranger District
Affiliation: Forest Service
Resources:
Quads: ACTON, AGUA DULCE, AZUSA, BLACK MTN, BURNT PEAK, CHILAO FLAT, COBBLESTONE MTN, CONDOR PEAK, CRYSTAL LAKE, DEL SUR, GLENDORA, GREEN VALLEY, JUNIPER HILLS, LAKE HUGHES, LEBEC, LIEBRE MTN, MESCAL CREEK, MINT CANYON, MOUNT SAN ANTONIO, MT BALDY, MT WILSON, NEWHALL, PACIFICO MOUNTAIN, PASADENA, PIRU, SAN FERNANDO, SLEEPY VALLEY, SUNLAND, VAL VERDE, VALYERMO, WARM SPRINGS MOUNTAIN, WATERMAN MTN, WHITAKER PEAK
Pages: 30
Notes: Mapped in GIS/Other Reports to entire boundary of Angeles National Forest

SCCIC Bibliography: City of South Pasadena Sewer Project

LA-00112

Author(s): D'Altroy, Terence N.
Year: 1974
Title: Impact on Archaeological Resources of Proposed Upgrading Ramps on the Pasadena Freeway
Affiliation: University of California, Los Angeles Archaeological Survey
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-00115

Author(s): Clewlow, William C. Jr.
Year: 1974
Title: Evaluation of the Archaeological Resources and Potential Impact of Proposed Extension of the Long Beach Freeway (rt. 7) North From Valley Blvd. to Rt. 210 (colorado Freeway)
Affiliation: University of California, Los Angeles Archaeological Survey
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-01319

Author(s): Romani, John F.
Year: 1983
Title: Archaeological Survey Report for Two Proposed Disposal Sites 07-la 7 Routes 10 to 210 07-204-020090
Affiliation: Caltrans
Resources:
Quads: LOS ANGELES
Pages:
Notes:

SCCIC Bibliography: City of South Pasadena Sewer Project

LA-03440

Author(s): Kane, Diane

Year: 1994

Title: Third Supplemental Historic Architectural Survey Report 710 Freeway Gap Closure Report (07-la 710, 26.5/r32.7 Ea 07-020090) Volume Ii: Pasadena Avenue District Re-evaluation

Affiliation: Caltrans District 7: Environmental Planning Branch

Resources: 19-150039, 19-150040, 19-150041, 19-150042, 19-150043, 19-150044, 19-150045, 19-150046, 19-150047, 19-150048, 19-150049, 19-150050, 19-150051, 19-150052, 19-150053, 19-150054, 19-150055, 19-150056, 19-150057, 19-150058, 19-150059, 19-150060, 19-150061, 19-150062, 19-150063, 19-150064, 19-150065, 19-150066, 19-150067, 19-150068, 19-150069, 19-150070, 19-150071, 19-150072, 19-150073, 19-150074, 19-150075, 19-150076, 19-150077, 19-150078, 19-150079, 19-150080, 19-150081, 19-150082, 19-150083, 19-150084, 19-150085, 19-150086, 19-150087, 19-150088, 19-150089, 19-150090, 19-150091, 19-150092, 19-150093, 19-150094, 19-150095, 19-150096, 19-150097, 19-150098, 19-150099, 19-150100, 19-150101, 19-150102, 19-150103, 19-150104, 19-150105, 19-150106, 19-150107, 19-150108, 19-150109, 19-150110, 19-150111, 19-150112, 19-150113, 19-150114, 19-150115, 19-150116, 19-150117, 19-150118, 19-150119, 19-150120, 19-150121, 19-150122, 19-150123, 19-150124, 19-150125, 19-150126, 19-150127, 19-150128, 19-150129, 19-150130, 19-150131, 19-150132, 19-150133, 19-150134, 19-150135, 19-150136, 19-150137, 19-150138, 19-150139, 19-150140, 19-150141, 19-150142, 19-150143, 19-150368, 19-150370, 19-150371, 19-150372, 19-150373, 19-150374, 19-150375, 19-150376, 19-150377, 19-150378, 19-150379, 19-150380, 19-150381, 19-155886, 19-155887, 19-155888, 19-155889, 19-155891, 19-155892, 19-155894, 19-155897, 19-155898, 19-155900, 19-155901, 19-155902, 19-155903, 19-155904, 19-155905, 19-155906, 19-155908, 19-155909, 19-155910, 19-155913, 19-155914, 19-155915, 19-155917, 19-155918, 19-155919, 19-155920, 19-155921, 19-155922, 19-155923, 19-155924, 19-155925, 19-155928, 19-155929, 19-155930, 19-155931, 19-155932, 19-155933, 19-155935, 19-155936, 19-155937, 19-155938, 19-155939, 19-155940, 19-155942, 19-155943, 19-155944, 19-155945, 19-155946, 19-155947, 19-155948, 19-155949, 19-155950, 19-155951, 19-156643, 19-175665, 19-175669, 19-175673, 19-175674, 19-175682, 19-175687, 19-175690, 19-175696, 19-175700, 19-175701, 19-175731, 19-175734, 19-175736, 19-184979

Quads: PASADENA

Pages:

Notes: It is an oversized report 4 volumes all together

LA-04216

Author(s): Holmes, William Henry

Year: 1900

Title: Report of the US National Museum Under the Direction of the Smithsonian Institute for the Year Ending June 30, 1900

Affiliation: The Smithsonian Institute

Resources:

Quads: LOS ANGELES

Pages:

Notes: Map to Buena Vista Street

LA-04386

Author(s): Anonymous

Year: 1993

Title: Cultural Resources Overview Los Angeles County Metropolitan Transportation Authority's Interstate Commerce Commission Abandonment Exemption Pasadena-los Angeles Light Rail Transit Project

Affiliation: Caltrans

Resources:

Quads: LOS ANGELES

Pages:

Notes:

SCCIC Bibliography: City of South Pasadena Sewer Project

LA-04451

Author(s): Anonymous
Year: 1983
Title: Route 7 Environmental Impact Statement Supplement
Affiliation: Caltrans
Resources: 19-179484, 19-179518, 19-179524, 19-179529, 19-179530, 19-179531, 19-179561, 19-179610, 19-179614, 19-179618
Quads: LOS ANGELES
Pages:
Notes:

LA-04638

Author(s): Duke, Curt
Year: 1999
Title: Cultural Resource Assessment for Pacific Bell Mobile Services Facility La 948-01, in the County of Los Angeles, California
Affiliation: LSA Associates, Inc.
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-04890

Author(s): Storey, Noelle
Year: 2000
Title: Negative Archaeological Survey Report, Highway Project Description
Affiliation: Caltrans District 7
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-04909

Author(s): Atchley, Sara M.
Year: 2000
Title: Cultural Resources Investigation for the Nextlink Fiber Optic Project, Los Angeles and Orange Counties, California
Affiliation: Jones & Stokes
Resources:
Quads: ANAHEIM, BURBANK, HOLLYWOOD, LOS ANGELES, NEWPORT BEACH, PASADENA, TUSTIN
Pages:
Notes:

SCCIC Bibliography: City of South Pasadena Sewer Project

LA-05132

Author(s): McKenna, Jeanette A.
Year: 1999
Title: A Phase I Cultural Resources Investigation and Architectural Evaluation of Properties Located at 1319 and 1921 Fremont Avenue, South Pasadena, Los Angeles County, California
Affiliation: McKenna et al.
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-05421

Author(s): Sylvia, Barbara
Year: 2000
Title: Negative Archaeological Survey Report: 07-la-110-07-174-965120
Affiliation: Caltrans District 7
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-05422

Author(s): Duke, Curt
Year: 2000
Title: Cultural Resource Assessment for At&t Wireless Services Facility Number C976.2 County of Los Angeles, Ca
Affiliation: LSA Associates, Inc.
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-05434

Author(s): McKenna, Jeanette A.
Year: 2001
Title: A Phase I Cultural Resources Investigation and Architectural Evaluation of Properties Located at 809 and 813 Meridian Avenue, South Pasadena, Los Angeles County, California
Affiliation: Mc Kenna et al.
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-05438

Author(s): Duke, Curt
Year: 2001
Title: Cultural Resource Assessment Cingular Wireless Facility No. Vy 030-04 Los Angeles County, Ca
Affiliation: LSA Associates, Inc.
Resources:
Quads: LOS ANGELES
Pages: 11
Notes:

SCCIC Bibliography: City of South Pasadena Sewer Project

LA-06334

Author(s): Kinkella, Andrew
Year: 2002
Title: Below the Basketball Court: Burial Recovery at Arroyo Seco Park
Affiliation: Greenwood and Associates
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-06362

Author(s): Borg, Roger
Year: 1994
Title: Finding of Effect on Historic Properties Arroyo Seco Parkway and Four Level Interchange
Affiliation: Caltrans District 7
Resources:
Quads: HOLLYWOOD, LOS ANGELES
Pages:
Notes:

LA-06385

Author(s): McAvoy, Christy J.
Year: 2001
Title: Section 106 Review for 5568 Via Marison Avenue Arroyo Seco Park Historic District Los Angeles, Ca
Affiliation: Historic Resources Group
Resources: 19-189325, 19-189326
Quads: LOS ANGELES
Pages:
Notes:

LA-06835

Author(s): Harper, Caprice D.
Year: 2003
Title: Cultural Resource Assessment Cingular Wreless Facility No. Vy311-01 South Pasadena, Los Angeles County, California
Affiliation: LSA Associates, Inc.
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-06839

Author(s): Hale, Alice E.
Year: 2003
Title: Burial Data Summary Arroyo Seco/san Pascual Park Los Angeles, California
Affiliation: Greenwood and Associates
Resources: 19-003057
Quads: LOS ANGELES
Pages:
Notes: 19-000224,19-000026,19-001575H,56-000058,56-000003,56-000110 mentioned in report as near

SCCIC Bibliography: City of South Pasadena Sewer Project

LA-07075

Author(s): Wormer, Stephen R. and Carol R. Demcak
Year: 2002
Title: Report of Historical Assessment of Two Residences in the City of San Marino, Los Angeles County, California
Affiliation: Archaeological Resource Management Corp.
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-07426

Author(s): McMorris, Christopher
Year: 2004
Title: Caltrans Historic Bridges Inventory Update: Concrete Arch Bridges
Affiliation: JRP Historical Consulting
Resources:
Quads: BEVERLY HILLS, HOLLYWOOD, LOS ANGELES, MATILIJA, SAN PEDRO, YORBA LINDA
Pages:
Notes: Also VN-02625 and OR-03628.

LA-07553

Author(s): Fulton, Terri
Year: 2004
Title: Cultural Resource Assessment Cingular Wireless Facility No. Vy 311-01 South Pasadena, Los Angeles County, California
Affiliation: LSA Associates, Inc.
Resources:
Quads: LOS ANGELES
Pages:
Notes: 19-003057 is within 1/2 mile

LA-08151

Author(s): Tang, Bai "Tom" and Michael Hogan
Year: 2006
Title: Historic Building Evaluation 1406 Wilson Avenue, City of San Marino, Los Angeles County, California
Affiliation: CRM Tech
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-08252

Author(s): Snyder, John W., Mikesell, Stephen, and Pierzinski
Year: 1986
Title: Request for Determination of Eligibility for Inclusion in the National Register of Historic Places/Historic Bridges in California: Concrete Arch, Suspension, Steel Girder and Steel Arch
Affiliation: Caltrans
Resources:
Quads: HOLLYWOOD, LOS ANGELES, PASADENA
Pages:
Notes:

SCCIC Bibliography: City of South Pasadena Sewer Project

LA-08526

Author(s): Unknown
Year: 2004
Title: Historic Resources Report, 258-266 Monterey Road, South Pasadena, California
Affiliation: San Buenaventura Research Associates
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-08542

Author(s): Bonner, Wayne H.
Year: 2004
Title: Cultural Resource Records Search Results and Site Visit for Cingular Wireless Facility Candidate Sb-390-01 (bilicke Water Tank) 700 La Portada, South Pasadena, Los Angeles County, California
Affiliation: Michael Brandman Associates
Resources:
Quads: LOS ANGELES
Pages:
Notes:

LA-08634

Author(s): Anonymous
Year: 2007
Title: Cultural Resources Study of the Arroyo Seco Park Project, Royal Street Communications Site No. La0108b, Stoney Drive, South Pasadena, Los Angeles County, California 91030
Affiliation: Historic Resource Associates
Resources: 19-003057
Quads: LOS ANGELES
Pages:
Notes:

LA-08928

Author(s): McKenna, Jeanette A.
Year: 2007
Title: A Phase I (ceqa) and Class Iii (nepa) Cultural Resources Investigation for the Lower Arroyo Seco Trail and Trailhead Improvements Project Area in the City of Pasadena, Los Angeles County, California
Affiliation: McKenna et al.
Resources: 19-003057, 19-180037
Quads: PASADENA
Pages:
Notes:

LA-08948

Author(s): Lajoie, Glenn and Starla Hack
Year: 2007
Title: Public Review Draft Environmental Impact Report, Downtown Revitalization Project, Sch No. 2007031024
Affiliation: RBF Consulting
Resources:
Quads: LOS ANGELES
Pages:
Notes:

SCCIC Bibliography: City of South Pasadena Sewer Project

LA-09098

Author(s): Bonner, Wayne H.
Year: 2006
Title: Extended Phase I Testing for Cingular Wireless Facility Candidate 950-014-198e/lsanca0336 (arroyo Park) Arroyo Seco Park, South Pasadena, Los Angeles County, California
Affiliation: Michael Brandman Associates
Resources: 19-003057
Quads: LOS ANGELES
Pages:
Notes:

LA-09099

Author(s): Bonner, Wayne H.
Year: 2005
Title: Cultural Resources Records Search Results and Site Visit for Cingular Wireless Site 950-014-198e (city Park) Arroyo Park, Near Intersection of Comet Street and Pasqual Avenue, South Pasadena, Los Angeles County, California
Affiliation: Michael Brandman Associates
Resources: 19-003057
Quads: LOS ANGELES
Pages:
Notes:

LA-09489

Author(s): Lee, Portia
Year: 2003
Title: Arroyo Seco Parkway Historic District
Affiliation: California Archives
Resources: 19-179645
Quads: LOS ANGELES
Pages: 51
Notes:

LA-09601

Author(s): Bonner, Wayne H.
Year: 2008
Title: Cultural Resources Records Search and Site Visit Results for AT&T Candidate SV0061-01 (OG Park), 820 El Centro Street, South Pasadena, Los Angeles County, California.
Affiliation: Michael Brandman Associates
Resources: 19-003057
Quads: LOS ANGELES
Pages: 18
Notes:

SCCIC Bibliography: City of South Pasadena Sewer Project

LA-10209

Author(s): English, John
Year: 2004
Title: Finding of Effect Report for the Raymond Ave. To SR110 Connector Project, Los Angeles County, CA
Affiliation: Myra L. Frank & Associates, Inc
Resources:
Quads: LOS ANGELES, PASADENA
Pages: 37
Notes:

LA-10388

Author(s): Bonner, Wayne H. and Kathleen A. Crawford
Year: 2009
Title: Direct APE Historic Architectural Assessment for Clearwire Candidate CA-LOS0099A/LA03XC129A (S. Pasadena Water Tank), 700 S. La Portada, South Pasadena, Los Angeles County, California
Affiliation: MBA
Resources: 19-188513
Quads: LOS ANGELES
Pages: 2
Notes:

LA-10541

Author(s): Dolan, Christy and Monica Strauss
Year: 2005
Title: Finding of Effect for the Proposed Arroyo Seco Bike Path, Los Angeles County, California
Affiliation: EDAW, Inc.
Resources: 19-186859
Quads: LOS ANGELES, PASADENA
Pages: 50
Notes:

LA-10576

Author(s): Greenwood, David
Year: 2004
Title: Historic Property Suvey Report for the Raymond Avenue to SR 110 Connector project for the Raymond Avenue to SR 110 Connector Project
Affiliation: Myra L. Frank & Associates, Inc.
Resources: 19-179645, 19-184719, 19-184723, 19-188719, 19-188766, 19-188767
Quads: LOS ANGELES, PASADENA
Pages: 50
Notes:

SCCIC Bibliography: City of South Pasadena Sewer Project

LA-10713

Author(s): Bonner, Wayne
Year: 2010
Title: Cultural Resources Records Search and Site Visit Results for T-Mobile USA Candidate IE05381C (R.O.W. Pole #10123PBM), 1098 South Arroyo Boulevard, Pasadena, Los Angeles County, California
Affiliation: Michael Brandman Associates
Resources: 19-150107, 19-150368, 19-150369, 19-150370, 19-150371, 19-150372, 19-150373, 19-150374, 19-150375, 19-150376, 19-150377, 19-150378, 19-150379, 19-184979, 19-186859
Quads: PASADENA
Pages: 25
Notes:

LA-10866

Author(s): Supernowicz, Dana
Year: 2007
Title: Cultural Resources Study of the Arroyo Seco Park Project Royal Street Communications Site No. LA0108B, Stoney Drive, South Pasadena, Los Angeles County, California 91030
Affiliation: Historic Resource Associates
Resources: 19-003057, 19-179332, 19-179484, 19-179645, 19-186859
Quads: LOS ANGELES
Pages: 68
Notes:

LA-11231

Author(s): Meiser, M.K.
Year: 2009
Title: Historic American Engineering Record Arroyo Seco Flood Control Channel, Los Angeles County, California
Affiliation: EDAW, Inc.
Resources: 19-186859
Quads: LOS ANGELES, PASADENA
Pages: 44
Notes:

LA-11529

Author(s): Castanon, David
Year: 2008
Title: Arroyo Seco Channel Project in the cities of Los Angeles and Pasadena, Los Angeles County, California
Affiliation: Department of the Army
Resources: 19-186859
Quads: LOS ANGELES
Pages: 39
Notes:

SCCIC Bibliography: City of South Pasadena Sewer Project

LA-11554

Author(s): Lee, Portia
Year: 2000
Title: Historic Resources Evaluation Report and Finding of No Adverse Effect for Oaklawn Bridge =, City of South Pasadena Seismic Retrofit and Historic Restoration Project
Affiliation: California Archives
Resources: 19-179486
Quads: LOS ANGELES
Pages: 122
Notes:

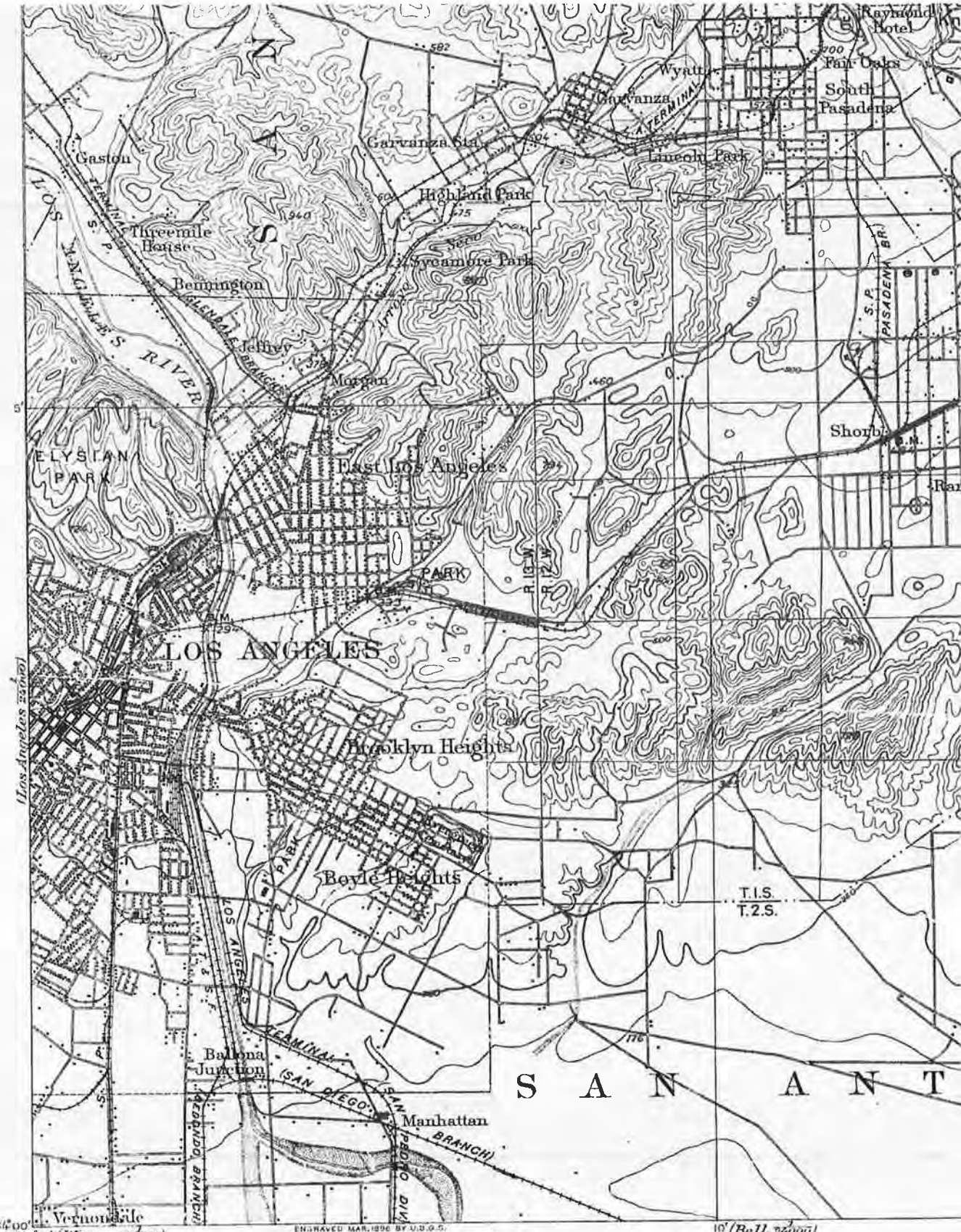
LA-11650

Author(s): Bonner,Wayne
Year: 2011
Title: Cultural Resources Records Search and Site Visit Results for T-Mobile USA Candidiate IE24844-G (Stein Rooftop), 1959 Huntington Drive, Alhambra, Los Angeles County, California
Affiliation: Michael Brandman Associates
Resources: 19-189957
Quads: LOS ANGELES
Pages: 16
Notes:

Verdugo
Eagle Rock Valley
(Santa Monica)
Garvanza
Garvanza Sta.
Wyatt
Raymond Hotel
Fair Oaks
South Pasadena
Lincoln Park
Highland Park
Sycamore Park
Three Mile House
Bennington
Jeffrey
Morgan
LOS ANGELES RIVER
ELYSIAN PARK
East Los Angeles
PARK
R13W
R12W
LOS ANGELES
Brooklyn Heights
Boyle Heights
T1S
T2S
Belvoir
TERMINAL R.R.
SAN DIEGO
BRANCH
Manhattan
S A N A N T
Vernondale
(Redondo)
U. S. G. S.
FILE COPY

U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT,
DIRECTOR.

U.
FIL
Editor



Henry Gannett, Chief Topographer.
R.U.Goode, Geographer in charge.
Triangulation by A.P.Davis.
Topography by L.C.Fletcher and T.G.Gerdine.
Surveyed in 1894.

Fletcher
Gerdine
Fletcher

"REPRODUCED BY 30TH ENGR. (TOP) BN., FT. BELVOIR, VA. 1942"
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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPENDIX D

Hazards Memorandum

DUDEK

MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 760.942.5147 T 800.450.1818 F 760.632.0164

MEMORANDUM

To: Environmental Department
From: Rachel Ganiere; Nicole Peacock
Subject: Hazardous Materials Study for South Pasadena MND
Date: 4/9/2013
Attachment(s): A – List of Hazardous Waste Substances sites; B – Files for LUST sites; C – Solid Waste Disposal sites; D – CDO and CAO site; E – Hazardous Waste Facilities Subject to Corrective Action

INTRODUCTION

This memorandum summarizes the potential areas of environmental concern located within the City of South Pasadena in order to comply with the California Environmental Quality Act (CEQA) requirements for identifying potential hazardous material impacts related to CEQA Appendix G question VII(d). Per CEQA Appendix G, question VII(d), sites identified in one of the regulatory databases compiled pursuant to Government Code Section 65962.5 could present a significant impact. Government Code Section 65962.5 requires the California Environmental Protection Agency (Cal-EPA) to compile and update the hazardous waste and substances sites list (Cortese List).

The Cortese List was designed to comply with Government Code Section 65962.5. While the Cortese List is no longer maintained as a single list, the following databases provide information regarding sites identified as meeting the Cortese List requirements:

1) List of Hazardous Waste and Substances sites from Department of Toxic Substances Control (DTSC) Envirostor database (Health and Safety Codes 25220, 25242, 25356, and 116395)

2) List of Leaking Underground Storage Tank (LUST) Sites by County and Fiscal Year from the State Water Resources Control Board (Water Board) GeoTracker database (Health and Safety Code 25295)

3) List of solid waste disposal sites identified by the Water Board with waste constituents above hazardous waste levels outside the waste management unit (Water Code Section 13273 subdivision (e) and California Code of Regulations Title 14 Section 18051))

4) List of "active" Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO) from the Water Board (Water Code Sections 13301 and 13304)

5) List of hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code, identified by DTSC.

Dudek reviewed the facilities and/or sites identified in these five databases. Based on this review, a total of 13 sites within South Pasadena are included on the Cortese List.

1) Hazardous Waste and Substances Site list

On March 11, 2013, Dudek accessed the Hazardous Waste and Substances site list on DTSC Envirostor database. One hundred and five sites were listed within Los Angeles County (Attachment A). However, no sites were listed in the City of South Pasadena.

2) Leaking Underground Storage Tank Sites

On March 13, 2013, Dudek accessed the Water Board GeoTracker database to obtain the list of LUST sites located within South Pasadena. Seventeen LUST releases were identified at 13 unique addresses within South Pasadena (Attachment B). GeoTracker listed 15 closed release cases and 2 open release cases associated with these 13 sites. Impacted soil and/or groundwater may remain at both closed and open release sites.

Dudek submitted a file review request to Los Angeles Regional Water Quality Board (LARWQCB) on March 13, 2013 to obtain information about the releases and site impacts. On April 4, 2013, Lucinda Flores, the LARWQCB file review representative, stated that records associated with five of the 13 sites are not maintained by LARWQCB. Ms. Flores stated that the lead agencies for five sites (701, 719, 825, 1414, and 1415 Mission Street) are the Los Angeles County Department of Public Works Environmental Programs Division, UST Section (LACDPW) and the Los Angeles County Fire Department Health Hazardous Materials Division (LACFD).

On April 4, 2013, Dudek submitted a file review request to the LACDPW and the LACFD. As of the date of this report, Dudek has not received a response from either LACDPW or LACFD. If it is determined that information from either LACDPW or LACFD materially affect the findings of this memorandum, Dudek will prepare an addendum to this memorandum.

Information obtained from the Water Board Geotracker database for these five sites indicates that each site reported a release to soil only. It is unlikely that the soil only releases extend beyond the individual property boundaries. However, impacted vapors from these releases may

have migrated from the release sites and impacted the proposed project area. Limited information obtained from Geotracker for these five sites is as follows:

701 Mission – Halvorson's Cleaners

A release was reported at this dry cleaners. The release impacted soil only and the release case was closed by the lead regulatory agency in 1993.

719 Mission – Husco German Auto

A release was reported at this auto service shop. The release impacted soil only and the release case was closed by the lead regulatory agency in 1997.

825 Mission – City of South Pasadena

A release of gasoline to soil was discovered during removal of underground storage tanks (USTs) at the site. The release impacted soil only and the release case was closed by the lead regulatory agency in 1991.

1414 Mission – City of South Pasadena

A release of gasoline to soil was noted by the secondary containment monitor for the tank system at the site. The release impacted soil only. The release case is still open.

1415 Mission – Pacific Bell

A release to soil was discovered in 1995 during removal of USTs at the site. The release impacted soil only and the release case was closed by the lead regulatory agency in 1997.

Information from the remaining eight sites, for which the lead agency is the LARWQCB, was obtained from the LARWQCB file review (the most recent closure letters and reports on file at the LARWQCB were scanned by an onsite copy service (Attachment B)) and from Geotracker. The files reviewed indicated the following:

460 Fair Oaks - Chevron

A release of gasoline to groundwater was reported for the Chevron station. The LUST release case received closure in August 1996. One offsite well and seven onsite wells were

abandoned in September 1996. The well depths ranged between 50 and 65 feet below ground surface (bgs). The analytical data was not available for review.

718 Fair Oaks - Unocal

A release of gasoline to soil was discovered during UST closure in 1990. The site release case was granted closure in September 1996. The closure summary reported that groundwater in the area is approximately 500 feet bgs. Additionally, the closure report stated that a vapor extraction system was used to remediate the site soils and obtain closure. No information was available regarding the residual contamination at the site.

1200 Fair Oaks - Chevron

A release of gasoline to soil was discovered during UST closure. The LUST release case was closed in August 1996. The site received case closure even though residual contamination is present at the site. The depth to groundwater is estimated to be 380 feet bgs and was not investigated as part of this LUST release. According to the closure summary, two confirmation soil borings were advanced at the site. Total petroleum hydrocarbons (TPHs) were detected in soil at a concentration of up to 1,200 milligrams per kilogram (mg/kg; depth not provided). Although petroleum-impacted soil remains at the site, low risk closure was granted.

2140 Huntington – Unocal/Tosco

Two releases were reported for this former gas station (currently an auto service shop). Closure was issued for both releases at the site in July 1996 and June 2008. There is limited residual contamination at the site. The soil collected at 30.5 feet bgs from one confirmation boring contained concentrations of TPH and total xylenes at 1.3 mg/kg and 0.62 mg/kg. The soil samples collected from the remaining two confirmation borings did not contain detectable concentrations of volatile organic compounds (VOCs) or TPH.

736 Mission - Arco

Two releases were reported for this active gas station. The two gasoline releases to soil were closed in 1997 and 2010. The site was granted low risk closure with residual petroleum related contamination remaining in the soil. Petroleum-impacted soils are between 25 and 95 feet bgs (maximum TPH and benzene concentrations in site soils were 560 and 0.39 mg/kg. The depth to groundwater was estimated to be 110 feet bgs.

1141 Mission - Chevron

A release of gasoline to soil was reported for this gas station. The LUST release case received closure in September 1995. Although contamination remains at the site, the regulatory agency indicated that natural biodegradation would reduce the contamination that remains onsite. Impacted soils at the site are between 10 and 30 feet bgs. TPH and benzene concentrations in the site soils were as high as 931 and 0.081 mg/kg, respectively. Groundwater was estimated to be 100 feet bgs.

1400 Mission – Shell Station

Petroleum hydrocarbons and chlorinated VOCs have been reported in groundwater samples at the former Shell Station (currently a Chevron). The Fourth Quarter 2012 Groundwater Monitoring Report reported that contaminants detected in groundwater are as follows:

Sample Date	TPHg	TPHd	Benzene	MTBE	DIPE	TBA	EDC	cis-1,2-DCE	PCE	TCE	Other VOCs
	micrograms per liter (µg/L)										
11/29/2012	804	1750	2.6	155	114	1.1J	52.8	0.2J	5.0	0.52J	6.31J

Notes:
TPHd – Total Petroleum Hydrocarbons diesel range
EDC – 1,2-Dichloroethane
cis-1,2-DCE – cis-1,2-Dichloroethene
PCE – Tetrachloroethene
TCE – Trichloroethene
Other VOCs – sec-Bultylbenzene (2.7J µg/L), Chloroethane (0.41J µg/L), Carbon Tetrachloride (0.2J µg/L), Isopropylbenzene (3 µg/L)
J – Estimated Value

Groundwater flows to the west-northwest at approximately 0.01 ft/ft. Groundwater is between 115 and 120 feet bgs. The groundwater monitoring report requested risk based closure. The release case is still open.

1401 Mission - Mobil

A release of gasoline was reported for this gas station. The LUST release case was closed in February 2007. The depth to groundwater is approximately 135 feet bgs. The following table presents the most recent maximum contaminant concentrations detected in groundwater as well as the maximum concentrations detected in the confirmation boring.

Media Type	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
		(ft bgs)	µg/L						
Groundwater	01/05/2007	112	103	<0.5	<0.5	<0.5.29J	<0.5	35.6	<10.

3) Solid Waste Disposal Sites

On March 11, 2013, Dudek downloaded the list of solid waste disposal sites identified by Water Board with waste constituents above hazardous waste levels outside the waste management unit. Twenty-five sites were listed in California and one site listed in Los Angeles County (Attachment C). None of the sites were listed in the City of South Pasadena.

4) Active Cease and Desist Orders and/or Cleanup and Abatement Orders

On March 13, 2013, Dudek downloaded the Water Board list of active CDOs and CAOs for California. Ten sites were listed within the county of Los Angeles (Attachment D). However, none of the listed sites were located within the City of South Pasadena.

5) Hazardous Waste Facilities Subject to Corrective Action

Dudek accessed the CalEPA Cortese List to obtain information on hazardous waste facilities identified in the Health and Safety Code 25187.5. Facilities identified under HSC 25187 are those that DTSC determined required immediate corrective action to "abate imminent or substantial endangerment." Two sites were listed in California. None of the sites were listed within the City of South Pasadena.

CONCLUSIONS AND RECOMMENDATIONS

The purpose of this Hazards Materials Study was to identify sites within the City of South Pasadena that are identified in one of the regulatory databases compiled pursuant to Government Code Section 65962.5 (Cortese List). This memorandum presents a review of sites included on the Cortese list and located within the City of South Pasadena in order to identifying potential hazardous material impacts in the Project area.

Thirteen LUST release sites were identified within the City of South Pasadena. Eleven of the 13 release cases were closed by the regulatory agency. Three releases impacted groundwater. Groundwater at the majority of the sites is reportedly greater than 100 feet bgs; however one site reported a groundwater depth of approximately 60 feet bgs.

Although soil at these sites may contain residual contamination, it is unlikely that the soil only releases extend beyond the individual property boundaries. However, impacted vapors from these releases may have migrated from the release sites and impacted the proposed project area. Likewise, although impacted groundwater is present at at least two of these sites, the

groundwater is deep (greater than 100 feet), such that impacted vapors from the groundwater at these sites is unlikely to impact the proposed project.

However, due to the potential for encountering impacted vapors in the proposed project area, Dudek recommends that a Hazardous Materials Contingency Plan be prepared and followed during the excavation of areas in the vicinity of the LUST release sites. The plan should specify measures to be taken to monitor worker health and safety (use of a photoionization detector (PID) to identify potential impacted vapors in the project area). The plan should also specify measures to be taken to mitigate potential impacted vapors (e.g. use of respirators if action levels are exceeded).

Dudek assumes that the proposed project includes work in the roads and easements outside of the individual site boundaries. However, if work is to be conducted at these LUST sites, further evaluation and possible soil sampling should be conducted prior the start of such work.

REFERENCES

Cal-EPA, 2013. Website accessed March 2013.
http://www.calepa.ca.gov/sitecleanup/corteselist/
http://www.calepa.ca.gov/sitecleanup/corteselist/CurrentList.pdf
http://www.calepa.ca.gov/sitecleanup/corteselist/SectionA.htm#Facilities

DTSC, 2013. Website accessed March 2013.
http://www.dtsc.ca.gov/SiteCleanup/Cortese_List.cfm

Envirostor 2013. Website accessed March 2013.
https://www.envirostor.dtsc.ca.gov/public/

Geotracker 2013. Website accessed March 2013.
https://geotracker.waterboards.ca.gov/

ENVIROSTOR ID	SITE / FACILITY NAME	SITE / FACILITY TYPE	STATUS	STATUS DATE	ADDRESS DESCRIPTION	CITY	ZIP CODE	COUNTY	SITE CODE	LATITUDE	LONGITUDE
60000877	4022 GAGE AVENUE & VICINITY	STATE RESPONSE	BACKLOG	4/1/2010	4022 GAGE AVENUE	BELL	90201	LOS ANGELES	301410	33.97866662	-118.1954358
19330371	A Z DECASING COMPANY	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	6/30/2003	1420 SOUTH SIGNAL DRIVE	POMONA	91766	LOS ANGELES	300248	34.046286	-117.726905
19000031	AAD	STATE RESPONSE	ACTIVE	1/1/2007	2306 E. 38TH STREET	VERNON	90058	LOS ANGELES	300461	34.00779331	-118.2324559
60000742	AEROJET GENERAL CORP.	STATE RESPONSE	ACTIVE	10/19/2007	9100 FLAIR DRIVE	EL MONTE	91731	LOS ANGELES	301377	34.0715	-118.0688
19970004	AIR FORCE PLANT #42, PALMDALE	STATE RESPONSE	ACTIVE	7/1/1994	5832 ACRES; BETWN PALMDALE AND LANCASTER	PALMDALE	93550	LOS ANGELES	300002	34.62961285	-118.0916972
19340753	ALCO PACIFIC	STATE RESPONSE	ACTIVE	7/1/2001	16914 SOUTH BROADWAY	CARSON	90248	LOS ANGELES	300353	33.8781519	-118.2776796
19290155	AMOCO CHEMICALS CORP (2)	STATE RESPONSE	BACKLOG	11/9/2010	1225 WEST 196TH STREET	TORRANCE	90502	LOS ANGELES	401382	33.85349734	-118.2979944
19400012	AMTRAK REDONDO JUNCTION FACILITY	STATE RESPONSE	ACTIVE	1/10/2003	2435 E. WASHINGTON BLVD.	LOS ANGELES	90021	LOS ANGELES	300204, 300691, 300719	34.01915871	-118.2264626
19290306	ANGELES CHEMICAL COMPANY INC	STATE RESPONSE	ACTIVE	4/22/2010	8915 SORENSEN AVENUE	SANTA FE SPRINGS	90670	LOS ANGELES	300301, 301521, 301566, 306001	33.95882191	-118.063014
60001335	AREA 3 (SAN GABRIEL VALLEY SUPERFUND SITE)	FEDERAL SUPERFUND - LISTED	ACTIVE	5/25/2010	COVERS CITY OF SAN GABRIEL, PORTIONS OF CITIES OF ALHAMBRA, ROSEMEAD, TEMPLE CITY, SAN MARINO AND SOUTH PASADENA	ALHAMBRA	91778	LOS ANGELES	301178, 301284	34.09858579	-118.1165886
60001560	AVALON PROPERTY	STATE RESPONSE	ACTIVE	10/6/2011	200 FALLS CANYON ROAD	CITY OF AVALON	90704	LOS ANGELES	404868	33.33852386	-118.3327317
60001336	BALDWIN PARK (SAN GABRIEL VALLEY SUPERFUND SITE)	FEDERAL SUPERFUND - LISTED	ACTIVE	5/25/2010	COVERS PORTIONS OF CITIES OF AZUSA, IRWINDALE, BALDWIN PARK AND WEST COVINA	BALDWIN PARK	91706	LOS ANGELES	300345	34.08678666	-117.9602051
19290278	BASIN BY-PRODUCTS	STATE RESPONSE	ACTIVE	1/1/1985	3031 EAST I STREET	WILMINGTON	90744	LOS ANGELES	400015	33.78395545	-118.2255452
60000159	BEAUMON TRUST PROPERTY	STATE RESPONSE	ACTIVE	1/30/2006	12525 PARK AVENUE	SANTA FE SPRINGS	90670	LOS ANGELES	301280	33.940833	-118.064069
19490005	BKK SANITARY LANDFILL / CLASS I AREA	STATE RESPONSE	ACTIVE - LAND USE RESTRICTIONS	11/18/2004	2210 SOUTH AZUZA AVENUE	WEST COVINA	91792	LOS ANGELES	300012	34.03630192	-117.9131699
19290289	BORTZ OIL COMPANY	STATE RESPONSE	ACTIVE - LAND USE RESTRICTIONS	8/1/1996	1746 NORTH SPRING STREET	LOS ANGELES	90012	LOS ANGELES	300017	34.07	-118.2252778
71002231	BOWMAN PLATING CO., INC.	STATE RESPONSE	ACTIVE	10/3/2011	2631 E. 126TH STREET	COMPTON	90222	LOS ANGELES		33.918047	-118.2247242
19490019	CAL COMPACT LANDFILL	STATE RESPONSE	ACTIVE	4/18/1996	20400 MAIN ST	CARSON	90745	LOS ANGELES	401325, 401580	33.84260475	-118.2723333
60000137	CALSOL INC.	STATE RESPONSE	ACTIVE	12/15/2005	822 WEST COMMERCIAL	POMONA	91761	LOS ANGELES	301274	34.05904873	-117.7638349
19990003	CALTRANS I-105 #16 & 17	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	6/30/1994	I-5 FWY BTW NORMANDIE BLV & IMPERIAL HWY	LOS ANGELES	90047	LOS ANGELES	300203	33.92888889	-118.3
19990002	CALTRANS I-105 FWY PROJECT 3, PARCEL 15	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	4/9/1996	NE OF INTRSECTN OF WESTERN AVE & 120 ST	ATHENS	90047	LOS ANGELES	300202	33.92366078	-118.3086294
19390043	CAMEO	STATE RESPONSE	ACTIVE	12/8/1993	6904 EAST SLAUSON AVENUE	COMMERCE	90040	LOS ANGELES	300546	33.98020703	-118.1412194
19281216	CHARLES CAINE COMPANY, INC.	STATE RESPONSE	ACTIVE	7/2/2001	8325 HINDRY AVENUE	LOS ANGELES	90045	LOS ANGELES	300997	33.9627787	-118.3738661
19350473	CHROME CRANKSHAFT, COMPANY	STATE RESPONSE	ACTIVE	1/25/1999	6845 FLORENCE PL	BELL GARDENS	90201	LOS ANGELES	300736	33.96572161	-118.14191

ENVIROSTOR ID	SITE / FACILITY NAME	SITE / FACILITY TYPE	STATUS	STATUS DATE	ADDRESS DESCRIPTION	CITY	ZIP CODE	COUNTY	SITE CODE	LATITUDE	LONGITUDE
19000010	CITY OF CUDAHY PARK	STATE RESPONSE	ACTIVE	6/30/2001	5240 SANTA ANA STREET	CUDAHY	90201	LOS ANGELES	301008	33.95916667	-118.1744444
19500052	COOPER DRUM	ERAL SUPERFUND - LIS	ACTIVE	12/12/1996	9316 ATLANTIC AVENUE	SOUTH GATE	90280	LOS ANGELES	300251	33.94776667	-118.1816278
19360279	CORNELL-DUBILIER ELECTRONICS	STATE RESPONSE	ACTIVE - LAND USE RESTRICTIONS	4/18/1996	4144 GLENCOE AVENUE	MARINA DEL REY	90292	LOS ANGELES	300040	33.98898075	-118.44116
60001065	CROWN CITY PLATING	STATE RESPONSE	ACTIVE	3/1/2009	4350 TEMPLE CITY BOULEVARD 4350 TEMPLE CITY BOULEVARD	EL MONTE	91731	LOS ANGELES	301394, 301584	34.08600473	-118.0552197
19281215	DAVIS CHEMICAL COMPANY	STATE RESPONSE	ACTIVE	9/6/2000	1550 NORTH BONNIE BEACH PLACE	LOS ANGELES	90063	LOS ANGELES	300432	34.0591752	-118.1826778
19970007	DEFENSE FUEL SUPPLY POINT, SAN PEDRO 1	STATE RESPONSE	ACTIVE	3/4/2009	3171 NORTH GAFFEY STREET	SAN PEDRO	90731	LOS ANGELES	400046, 400770	33.77805556	-118.2958333
19300230	DEL AMO FACILITY	ERAL SUPERFUND - LIS	ACTIVE - LAND USE RESTRICTIONS	4/22/1996	DEL AMO BLVD & VERMONT AVE	LOS ANGELES	90020	LOS ANGELES	400048, 400851, 401628	33.8497	-118.292
60001337	EL MONTE (SAN GABRIEL VALLEY SUPERFUND SITE)	ERAL SUPERFUND - LIS	ACTIVE	5/25/2010	COVERS PORTIONS OF CITIES OF EL MONTE, ROSEMEAD, AND TEMPLE CITY	EL MONTE	91732	LOS ANGELES	301369, 301370	34.08010449	-118.0405426
70000165	FIRESTONE - ENGLE SOUTHERN PARCEL	STATE RESPONSE	ACTIVE	4/19/1996	8440 ALAMEDA STREET	SOUTH GATE	90280	LOS ANGELES	301249	33.96035827	-118.230325
19300231	FIRESTONE - PARCEL 1A	STATE RESPONSE	ACTIVE	4/19/1996	2525 FIRESTONE BLVD	SOUTH GATE	90280	LOS ANGELES	300341	33.95877428	-118.2290912
70000166	FIRESTONE - PARCEL 1B	STATE RESPONSE	ACTIVE	6/6/2012	2525 EAST FIRESTONE BOULEVARD	SOUTH GATE	90012	LOS ANGELES	301600	33.95798451	-118.2266232
19340792	FORMER APEX METAL POLISHING	STATE RESPONSE	ACTIVE	6/16/2006	5977 W. WASHINGTON BLVD.	CULVER CITY	90232	LOS ANGELES	301290	34.03210547	-118.376106
60001235	FORMER D.L. GIN CLEANERS & LAUNDRY	STATE RESPONSE	ACTIVE	11/1/2009	4032 GAGE AVENUE	BELL	90201	LOS ANGELES	301486	33.97893	-118.19525
60000535	FORMER DYNAMIC PLATING COMPANY SITE	STATE RESPONSE	ACTIVE	1/31/2007	1102 WEST ISABEL STREET	BURBANK	91506	LOS ANGELES	301328	34.18206879	-118.3233058
19320112	FRANCISCAN CERAMICS, INC.	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	12/30/1994	2901 LOS FELIZ BOULEVARD	LOS ANGELES	90039	LOS ANGELES	300065	34.12656111	-118.2629333
60000835	FREEMAN PRODUCTS / AVNET INC.	STATE RESPONSE	ACTIVE	2/29/2008	2040 ARTESIA BOULEVARD	TORRANCE	90504	LOS ANGELES	401377	33.87166164	-118.3148182
19490135	GARDENA SUMPS	STATE RESPONSE	ACTIVE	9/25/1995	SW CRNR OF NORMANDIE AVE & ARTESIA BLVD	GARDENA	90247	LOS ANGELES	401218	33.87235301	-118.30025
19420029	GATX ANNEX TERMINAL-SAN PEDRO	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	5/28/2002	208 EAST 22ND STREET	SAN PEDRO	90731	LOS ANGELES	400066, 400066	33.72680261	-118.2775444
19290167	GOLDEN EAGLE REFINERY (FORMER)	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	8/25/1995	12000 SOUTH FIGUEROA STREET	CARSON	90745	LOS ANGELES	400072	33.83800133	-118.2848126
19240022	HALBERT'S LUMBER, INC.	STATE RESPONSE	BACKLOG	1/16/2008	2026 ABALONE AVENUE	TORRENCE	90501	LOS ANGELES		33.82722222	-118.3116667
19340231	HARD CHROME PRODUCTS	STATE RESPONSE	ACTIVE	7/1/2001	617 EAST 56TH STREET	LOS ANGELES	90011	LOS ANGELES	300457	33.99183625	-118.2643676
19281213	HOLCHEM, INC.	STATE RESPONSE	ACTIVE	5/13/1997	13546 DESMOND STREET	PACOIMA	91331	LOS ANGELES	300593	34.27496191	-118.4271708
60000629	HYTONE CLEANERS	STATE RESPONSE	ACTIVE	5/1/2007	2702 MOUNTAIN VIEW ROAD	EL MONTE	91732	LOS ANGELES	301319	34.05952302	-118.0245687
19390044	INTERNATIONAL LEAD CO.	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	12/30/2007	2182 EAST 11TH STREET	LOS ANGELES	90021	LOS ANGELES	300591	34.02421476	-118.2338372
19340358	J&S CHROME PLATING	STATE RESPONSE	ACTIVE	8/15/1995	6863 FLORENCE PL	BELL GARDENS	90201	LOS ANGELES	300255	33.96564596	-118.1411438
19970008	JET PROPULSION LABORATORY	ERAL SUPERFUND - LIS	ACTIVE	9/20/1993	4800 OAK GROVE DRIVE	PASADENA	91109	LOS ANGELES	300318	34.198649	-118.174585
19340779	JUNIPERO AVENUE SITE	STATE RESPONSE	BACKLOG	6/6/2011	2740-2760 JUNIPERO AVENUE	SIGNAL HILL	90806	LOS ANGELES	400828	33.80707565	-118.162824

ENVIROSTOR ID	SITE / FACILITY NAME	SITE / FACILITY TYPE	STATUS	STATUS DATE	ADDRESS DESCRIPTION	CITY	ZIP CODE	COUNTY	SITE CODE	LATITUDE	LONGITUDE
60000424	KELLY PIPE CO., LLC	STATE RESPONSE	BACKLOG	4/26/2007	11700 BLOOMFIELD	SANTA FE SPRINGS	90670	LOS ANGELES		33.92636324	-118.0626412
19970011	LONG BEACH NAVAL COMPLEX (STATION & SHIPYARD)	STATE RESPONSE	ACTIVE - LAND USE RESTRICTIONS	7/26/1999	OFF OCEAN BLVD & NAVY WAY	LONG BEACH	90822	LOS ANGELES	400289, 400735	33.75833333	-118.2333333
19970021	LOS ANGELES NAVAL & MARINE CORPS RES.CEN	STATE RESPONSE	ACTIVE	11/23/1999	1700 STADIUM WAY	LOS ANGELES	90012	LOS ANGELES	300784	34.06903044	-118.2421137
19290153	LUBRICATION COMPANY OF AMERICA	STATE RESPONSE	ACTIVE	2/14/2012	12500 LANG STATION ROAD	CANYON COUNTRY	91350	LOS ANGELES	300087	34.43229965	-118.3699513
19970022	MARINE CORPS RESERVE CENTER, PICO RIVERA	STATE RESPONSE	ACTIVE	11/8/2007	3551 SAN GABRIEL RIVER PARKWAY	PICO RIVERA	90660	LOS ANGELES	301029	34.01416667	-118.0580556
19280440	MCKESSON CHEMICAL COMPANY	STATE RESPONSE	ACTIVE	4/19/1996	9005 SORENSEN AVENUE	SANTA FE SPRINGS	90670	LOS ANGELES	300094	33.95795966	-118.0634653
19300002	MOEN FOAM COMPANY	STATE RESPONSE	BACKLOG	10/16/1991	16627 AVALON BLVD	CARSON	90746	LOS ANGELES	300256	33.88020367	-118.2658631
60001010	MOMIN LODGE	STATE RESPONSE	ACTIVE	12/5/2008	1918 ARTESIA BOULEVARD	TORRANCE	90504	LOS ANGELES	401470	33.8727	-118.312
19281200	MONSANTO CHEMICAL COMPANY	STATE RESPONSE	ACTIVE	4/23/1996	2100 EAST 223RD STREET	CARSON	90810	LOS ANGELES	400266	33.82291974	-118.2383829
19280024	MONTROSE CHEMICAL CORP	ERAL SUPERFUND - LIS	ACTIVE	4/22/1996	20201 NORMANDIE AVENUE	TORRANCE	90502	LOS ANGELES	400100, 401628	33.84769546	-118.3019521
19970020	NAVAL INFORMATION RESEARCH FOUNDATION	STATE RESPONSE	ACTIVE	8/12/2011	3202 E FOOTHILL BLVD	PASADENA	91107	LOS ANGELES	300702, 301355	34.14922062	-118.0849118
19970010	NCCOSC MORRIS DAM	STATE RESPONSE	ACTIVE	7/1/1994	STATE HWY 39, 4.5 MI NORTHEAST OF AZUSA	ANGELES N FOREST	91702	LOS ANGELES	400318	34.18187922	-117.872014
19280515	NEVILLE CHEMICAL COMPANY	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	4/21/2006	12800 IMPERIAL HWY	SANTA FE SPRINGS	90670	LOS ANGELES	300102	33.91649653	-118.0590309
60000714	NEWCROW II	STATE RESPONSE	ACTIVE	9/21/2007	6141 TO 6241 RANDOLPH STREET	COMMERCE	90040	LOS ANGELES	301321	33.97852759	-118.1534207
19280436	OMEGA CHEMICAL CORPORATION	ERAL SUPERFUND - LIS	ACTIVE	11/23/1993	12504 WHITTIER BLVD	WHITTIER	90602	LOS ANGELES	300223	33.96957301	-118.0438266
19490207	OPERATING INDUSTRIES, INC. LANDFILL	ERAL SUPERFUND - LIS	CERTIFIED / OPERATION & MAINTENANCE	8/2/2012	900 POTRERO GRANDE DR	MONTEREY PARK	91755	LOS ANGELES	300110	34.03649751	-118.1040144
19340646	PALACE PLATING	STATE RESPONSE	ACTIVE	5/5/2010	710 EAST 29TH STREET	LOS ANGELES	90011	LOS ANGELES	301391	34.01844918	-118.2626672
19490181	PALOS VERDES LANDFILL	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	4/13/1999	25706 HAWTHORNE BLVD.	ROLLING HILLS ESTATES	90274	LOS ANGELES	400116	33.784775	-118.3483611
19460003	PALOS VERDES SHELF	ERAL SUPERFUND - LIS	ACTIVE	2/26/1999	PACIFIC OCEAN - WHITE POINT OUTFALL	PALOS VERDES	90000	LOS ANGELES	400645	33.7105	-118.3219
60001187	PECHINEY	STATE RESPONSE	ACTIVE	10/27/2009	3200 FRUITLAND AVENUE	VERNON	90058	LOS ANGELES	301396	33.996665	-118.210832
19281217	PEMACO FORMER CHEMICAL CORPORATION	ERAL SUPERFUND - LIS	ACTIVE	7/1/2001	5040-5050 SLAUSON BLVD.	MAYWOOD	90270	LOS ANGELES	300705	33.98605	-118.1749611
19970023	POINT VICENTE	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	1/6/2009	PALOS VERDES DR. AND HAWTHORNE BLVD.,	RANCHO PALOS VER	90275	LOS ANGELES	400953	33.74166667	-118.4055556
60001338	PUENTE VALLEY (SAN GABRIEL VALLEY SUPERFUND SITE)	ERAL SUPERFUND - LIS	ACTIVE	5/25/2010	COVERS MOST OF CITY OF INDUSTRY, PORTIONS OF THE CITY OF LA PUENTE AND UNINCORPORATED LOS ANGELES COUNTY	CITY OF INDUSTRY	91744	LOS ANGELES	301404, 301425, 301502	34.02933124	-117.9674149
19340643	RENU PLATING COMPANY INC	STATE RESPONSE	CTIVE - LAND USE RESTRICTION	6/28/2001	1531 EAST 32ND STREET	LOS ANGELES	90011	LOS ANGELES	301014	34.01273742	-118.2472721

ENVIROSTOR ID	SITE / FACILITY NAME	SITE / FACILITY TYPE	STATUS	STATUS DATE	ADDRESS DESCRIPTION	CITY	ZIP CODE	COUNTY	SITE CODE	LATITUDE	LONGITUDE
60000408	RICHARDS CLEANERS	STATE RESPONSE	ACTIVE	8/16/2006	538 WEST 5TH STREET	SAN PEDRO	90731	LOS ANGELES	401317	33.73992073	-118.2888496
19360068	ROSEN'S ELECTRICAL EQUIPMENT	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	1/19/2010	8226 E. WHITTIER BLVD.	PICO RIVERA	90660	LOS ANGELES	300369	34.00580267	-118.0957422
19990011	SAN FERNANDO VALLEY (AREA 1)	ERAL SUPERFUND - LIS	ACTIVE	5/15/1996	NORTH HOLLYWOOD WELLFIELD AREA	LOS ANGELES	91601	LOS ANGELES	300126, 300173	34.1875	-118.3838889
19990012	SAN FERNANDO VALLEY (AREA 2)	ERAL SUPERFUND - LIS	ACTIVE	1/1/1984	CRYSTAL SPRINGS WELLFIELD AREA	GLENDALE	91209	LOS ANGELES	300127	34.1575	-118.2847222
19990009	SAN FERNANDO VALLEY (AREA 4)	ERAL SUPERFUND - LIS	CERTIFIED / OPERATION & MAINTENANCE	1/1/1999	POLLOCK WELLFIELD	LOS ANGELES	90086	LOS ANGELES	300127	34.12944444	-118.2641667
19990006	SAN GABRIEL GROUNDWATER BASIN (1-4)*	ERAL SUPERFUND - LIS	ACTIVE	5/25/2010	10-20 MI E OF L.A. ON HWY 10 IN AZUSA	EL MONTE	91732	LOS ANGELES	300131, 300132, 300345, 300347, 300502, 301178, 301284, 301369, 301370, 301404, 301425	34.07239518	-118.0325
19970013	SEPULVEDA AIR NATIONAL GUARD	MILITARY EVALUATION	ACTIVE	7/1/2012	15900 VICTORY BLVD.	VAN NUYS	91406	LOS ANGELES	300307	34.18638889	-118.4791667
19490179	SO CAL GAS/OLYMPIC BASE MGP	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	12/24/1991	2424 E OLYMPIC BLVD	LOS ANGELES	90021	LOS ANGELES	300144	34.02559167	-118.2265722
71003449	SONIC PLATING CO., INC. - GARDENA	STATE RESPONSE	ACTIVE	10/4/2011	1930 W. ROSECRANS AVENUE	GARDENA	90249	LOS ANGELES		33.901618	-118.312582
19340737	SOS - PLACERITA CANYON	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE	4/23/1996	25977 SAND CANYON RD	SANTA CLARITA	91387	LOS ANGELES	300149	34.37252556	-118.4159682
60001403	SOUTH CENTRAL DISCOVERY PROJECT	STATE RESPONSE	ACTIVE	6/30/2009	SOUTH CENTRAL LOS ANGELES AREA	LOS ANGELES	90001	LOS ANGELES	301494	0	0
60001339	SOUTH EL MONTE (SAN GABRIEL VALLEY SUPERFUND SITE)	ERAL SUPERFUND - LIS	ACTIVE	5/25/2010	COVERS ALL OF CITY OF SOUTH EL MONTE AND PORTIONS OF EL MONTE AND ROSEMEAD	SOUTH EL MONTE	91733	LOS ANGELES	300347	34.05337055	-118.0420876
19470006	SOUTHERN PACIFIC - TAYLOR YARD	STATE RESPONSE	ACTIVE	4/23/1996	2800 KERR STREET	LOS ANGELES	90039	LOS ANGELES	300358	34.10988056	-118.247125
19290003	SOUTHLAND OIL	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	8/16/2002	5619-5621 RANDOLPH STREET	COMMERCE	90040	LOS ANGELES	300148	33.97994717	-118.1651623
60000999	SOUTHWEST MARINE TERMINAL ISLAND FACILITY	STATE RESPONSE	ACTIVE	11/5/2008	985 SEASIDE AVENUE	PORT OF LOS ANGELES	90731	LOS ANGELES	401456	33.73449	-118.26963
60000305	SPENCE PROPERTY AKA DRY CLEANER IN EAGLE ROCK	STATE RESPONSE	ACTIVE	5/5/2006	7047-7051 NORTH FIGUEROA STREET	LOS ANGELES	90042	LOS ANGELES	301285	35.138611	-118.188611
71003183	STANDARD NICKEL CHROMIUM PLATING CO.	STATE RESPONSE	ACTIVE	6/4/2004	826 E. 62ND STREET	LOS ANGELES	90001	LOS ANGELES		33.982915	-118.260409
19280083	STAUFFER CHEMICAL, CARSON	STATE RESPONSE	ACTIVE	4/25/1996	2112 EAST 223RD STREET	CARSON	90745	LOS ANGELES	400264	33.82323486	-118.2356228
19290138	TALLEY BROTHERS INC	STATE RESPONSE	ACTIVE	9/14/2007	2007 LAURA AVENUE	HUNTINGTON PARK	90255	LOS ANGELES	301368	33.98844513	-118.2356799
19510060	TCL CORP./TCL2 (PORT OF LONG BEACH)	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE	12/15/1997	420 N HENRY FORD AVE	WILMINGTON	90744	LOS ANGELES	400431	33.77495833	-118.2411917

ENVIROSTOR ID	SITE / FACILITY NAME	SITE / FACILITY TYPE	STATUS	STATUS DATE	ADDRESS DESCRIPTION	CITY	ZIP CODE	COUNTY	SITE CODE	LATITUDE	LONGITUDE
19510062	TCL CORPORATION - TOYOTA PARCEL	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	8/2/1995	420 N HENRY FORD AVE	WILMINGTON	90744	LOS ANGELES	400154	33.77495833	-118.2411917
19270329	TETRA GRAPHICS SITE	STATE RESPONSE	ACTIVE	2/26/2013	10310 GLASGOW PLACE	LOS ANGELES	90045	LOS ANGELES	300990	33.9428822	-118.371275
19490191	VICTORIA GOLF COURSE (FORMER BKK CARSON DUMP)	STATE RESPONSE	ACTIVE	6/9/2006	340 EAST 192ND STREET	CARSON	90746	LOS ANGELES	400579	33.85287095	-118.2715111
19490194	WASTE DISPOSAL, INC.	ERAL SUPERFUND - LIST	CERTIFIED / OPERATION & MAINTENANCE	9/14/2006	12731 LOS NIETOS RD	SANTA FE SPRINGS	90670	LOS ANGELES	300166	33.94860449	-118.0575585
60001827	WESTERN ELECTROCHEMICAL COMPANY	STATE RESPONSE	ACTIVE	10/3/2012	2348 EAST 8TH STREET	LOS ANGELES	90021	LOS ANGELES	301581	34.029322	-118.230725
19330383	WESTERN LEAD PRODUCTS, COMMERCE & UPR RIGHT-OF-WAY	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE	1/31/2012	4530 E PACIFIC WAY	COMMERCE	90040	LOS ANGELES	300590, 301145	34.00564486	-118.1773367
19281203	WHITTAKER BERMITE/RAIL STATION - SITE A	STATE RESPONSE	ACTIVE	9/9/2009	22116 WEST SOLEDAD CANYON ROAD	SANTA CLARITA	91350	LOS ANGELES	300245	34.41448643	-118.5251856
19281087	WHITTAKER/BERMITE FACILITY	STATE RESPONSE	ACTIVE	4/14/1995	22116 SOLEDAD CANYON RD	SANTA CLARITA	91350	LOS ANGELES	300245	34.40098385	-118.5073843
60001340	WHITTIER NARROWS (SAN GABRIEL VALLEY SUPERFUND SITE)	ERAL SUPERFUND - LIST	ACTIVE	5/25/2010	BETWEEN HIGHWAY 60 AND THE MONTEBELLO FOREBAY (NEAR WHITTIER NARROWS DAM)	WHITTIER	91770	LOS ANGELES	300132	34.03189196	-118.0563354
19290312	WILLIAM MEAD HOMES	STATE RESPONSE	ACTIVE	10/5/2001	1300 CARDINAL STREET	LOS ANGELES	90012	LOS ANGELES	300545, 300855, 301015	34.06318	-118.229891

GLOBAL ID	BUSINESS NAME	ADDRESS	CITY	STATE	ZIP	COUNTY	LATITUDE	LONGITUDE	CASE TYPE	STATUS	STATUS DATE	LEAD AGENCY	CASE WORKER	LOCAL AGENCY	RB CASE NUMBER	LOC CASE NUMBER	FILE LOCATION	POTENTIAL CONTAMINANTS OF CONCERN	POTENTIAL MEDIA AFFECTED	SITE HISTORY
T0603792909	MOBIL #18-HXV	1401 MISSION ST	SOUTH PASADENA	CA	91030	Los Angeles	34.115663	-118.152909	LUST Cleanup Site	Completed - Case Closed	2/14/2007	LOS ANGELES RWQCB (REGION 4)	JW	LOS ANGELES COUNTY	R-09404			Gasoline	Soil	
T0603730780	TOSCO/UNOCAL #30412	2140 HUNTINGTON DRIVE	SOUTH PASADENA	CA	91030	Los Angeles	34.106575	-118.135777	LUST Cleanup Site	Completed - Case Closed	6/9/2008	LOS ANGELES COUNTY	TS	LOS ANGELES COUNTY		24736		Gasoline	Under Investigation	
T0603703698	UNOCAL #0326	718 FAIR OAKS AVE	SOUTH PASADENA	CA	91030	Los Angeles	34.117085	-118.149906	LUST Cleanup Site	Completed - Case Closed	9/4/1996	LOS ANGELES RWQCB (REGION 4)	YR	LOS ANGELES COUNTY	I-10965			Gasoline	Soil	
T0603704030	CITY OF SOUTH PASADENA	825 MISSION ST E	SOUTH PASADENA	CA	91030	Los Angeles	34.11562	-118.160247	LUST Cleanup Site	Completed - Case Closed	1/8/1991	LOS ANGELES COUNTY	JOA	LOS ANGELES COUNTY	I-13034			Gasoline	Soil	
T0603703527	CHEVRON #9-0251	1141 MISSION ST	SOUTH PASADENA	CA	91030	Los Angeles	34.115468	-118.153442	LUST Cleanup Site	Completed - Case Closed	9/11/1995	LOS ANGELES RWQCB (REGION 4)	YR	LOS ANGELES COUNTY	I-09922			Gasoline	Soil	
T0603703525	CHEVRON #9-9614	460 FAIR OAKS AVE	SOUTH PASADENA	CA	91030	Los Angeles	34.120181	-118.150275	LUST Cleanup Site	Completed - Case Closed	8/26/1996	LOS ANGELES RWQCB (REGION 4)	YR	LOS ANGELES COUNTY	I-09919			Gasoline	Aquifer used for drinking water supply	
T0603705024	ARCO #0185	736 MISSION ST	SOUTH PASADENA	CA	91030	Los Angeles	34.116043	-118.160863	LUST Cleanup Site	Completed - Case Closed	5/13/1997	LOS ANGELES RWQCB (REGION 4)	YR	LOS ANGELES COUNTY	R-11148			Gasoline	Soil	
T0603714816	CITY OF SOUTH PASADENA	1414 MISSION ST	SOUTH PASADENA	CA	91030	Los Angeles	34.115807	-118.152416	LUST Cleanup Site	Open - Site Assessment	6/1/1999	LOS ANGELES COUNTY	MRR	LOS ANGELES COUNTY		013061-013329		Gasoline	Soil	
T0603705372	HUSCO GERMAN AUTO	719 MISSION ST	SOUTH PASADENA	CA	91030	Los Angeles	34.115701	-118.161813	LUST Cleanup Site	Completed - Case Closed	3/11/1997	LOS ANGELES COUNTY	JOA	LOS ANGELES COUNTY	R-22761			Aviation	Soil	
T0603704915	PACIFIC BELL	1415 MISSION ST	SOUTH PASADENA	CA	91030	Los Angeles	34.115801	-118.152362	LUST Cleanup Site	Completed - Case Closed	12/15/1997	LOS ANGELES COUNTY	JOA	LOS ANGELES COUNTY	R-10199			Other Solvent or Non-Petroleum Hydrocarbon	Soil	
T0603743617	SHELL SERVICE STATION	1400 MISSION ST.	SOUTH PASADENA	CA	91030	Los Angeles	34.116056	-118.152674	LUST Cleanup Site	Open - Site Assessment	7/25/2012	LOS ANGELES RWQCB (REGION 4)	CET	LOS ANGELES COUNTY	I-10953A	10971-026436	Regional Board	Other Solvent or Non-Petroleum Hydrocarbon	Aquifer used for drinking water supply	
T0603705244	HALVORSON'S CLEARNERS	701 MISSION ST	SOUTH PASADENA	CA	91030	Los Angeles	34.115392	-118.162256	LUST Cleanup Site	Completed - Case Closed	12/29/1993	LOS ANGELES COUNTY	JOA	LOS ANGELES COUNTY	R-15070			Aviation	Soil	

GLOBAL ID	BUSINESS NAME	ADDRESS	CITY	STATE	ZIP	COUNTY	LATITUDE	LONGITUDE	CASE TYPE	STATUS	STATUS DATE	LEAD AGENCY	CASE WORKER	LOCAL AGENCY	RB CASE NUMBER	LOC CASE NUMBER	FILE LOCATION	POTENTIAL CONTAMINANTS OF CONCERN	POTENTIAL MEDIA AFFECTED	SITE HISTORY
T0603703703	UNOCAL #1877	2140 HUNTINGTON DR	SOUTH PASADENA	CA	91030	Los Angeles	34.106575	-118.135777	LUST Cleanup Site	Completed - Case Closed	7/17/1996	LOS ANGELES RWQCB (REGION 4)	YR	LOS ANGELES COUNTY	I-10987			Gasoline	Soil	
T0603703526	CHEVRON #9-0623	1200 FAIR OAKS AVE	SOUTH PASADENA	CA	91030	Los Angeles	34.111867	-118.149849	LUST Cleanup Site	Completed - Case Closed	8/26/1996	LOS ANGELES RWQCB (REGION 4)	YR	LOS ANGELES COUNTY	I-09921			Gasoline	Soil	
T0603746652	ARCO #0185	736 MISSION STREET	SOUTH PASADENA	CA	91030	Los Angeles	34.116044	-118.160863	LUST Cleanup Site	Completed - Case Closed	3/23/2010	LOS ANGELES RWQCB (REGION 4)	YL	LOS ANGELES COUNTY	R-11148A	C589802	Regional Board	Gasoline	Soil	
T0603705525	MARCO AUTO BODY	1300 FAIR OAKS S	SOUTH PASADENA	CA	91030	Los Angeles	34.11083	-118.14988	LUST Cleanup Site	Completed - Case Closed	8/25/1999	LOS ANGELES COUNTY	JOA	LOS ANGELES COUNTY	R-25765			Aviation	Soil	
T0603703693	THRIFTY #283	1400 MISSION BLVD	SOUTH PASADENA	CA	91030	Los Angeles	34.116056	-118.152674	LUST Cleanup Site	Completed - Case Closed	3/24/1994	LOS ANGELES COUNTY	JOA	LOS ANGELES COUNTY	I-10953			Gasoline	Soil	

SITES IDENTIFIED WITH WASTE CONSTITUENTS ABOVE HAZARDOUS WASTE LEVELS OUTSIDE THE WASTE MANAGEMENT UNIT

COUNTY	CITY	REGION	SWAT #	WASTE DISCHARGER SYSTEM NO.	SOLID WASTE ID NO.	WASTE MANAGEMENT UNIT NAME	FACILITY NAME	AGENCY NAME
DEL NORTE	CRESCENT CITY	1	2	1A880520NSL-01		DEL NORTE COUNTY- PESTICIDE STORAGE	DEL NORTE PESTICIDE STORAGE AR	DEL NORTE, COUNTY OF
CONTRA COSTA	PITTSBURG	2	1	2 071059002-02	07-A1-0001	U S STEEL CORP -PITTSBURG SITE LA	WDR-USS-POSCO	USS-POSCO
SOLANO	VALLEJO	2	1	2 482011003-01	48-AA-0008	US NAVY MARE ISLAND SANITARY LANDFILL	WDR-NAVAL SHIPYARD/CLASS I LAN	MARE ISLAND NAVAL SHIPYARD
CONTRA COSTA	RICHMOND	2	3	2 071007002-01		CHEVRON CHEMICAL COMPANY-OLD SITES	WDR-ORTHO DIV-RICHMOND PLANT	CHEVRON CHEMICAL COMPANY
MONTEREY	FORT ORD (Marina)	3	1	3 270301004-01	27-AA-0015	FORT ORD LANDFILL	SANITARY LANDFILL	U.S. ARMY, FORT ORD
SANTA BARBARA	LOMPOC	3	3	3 420305001-01	42-AA-0017	LOMPOC CITY LANDFILL	SOLID WASTE DISPOSAL SITE	LOMPOC CITY
LOS ANGELES	MONTEREY PARK	4	1	4B190332001-01	19-AM-0001	OPERATING INDUSTRIES LANDFILL	OPERATING INDUSTRIES, INC.	OPERATING INDUSTRIES, INC.
TULARE	WOODLAKE	5F	1	5D540300010-01	54-AA-0007	TULARE COUNTY-WOODLAKE LANDFILL	WOODLAKE SWDS	TULARE, COUNTY OF
FRESNO	FRESNO	5F	2	5D100300001-01		MCKINLEY AVE. YARD	T.H. AGRICULTURE AND NUTRITION	NORTH AMERICAN PHILLIPS
KINGS	CORCORAN	5F	2	5D160302001-01	16-AA-0011	KINGS COUNTY-CORCORAN LANDFILL	CORCORAN SWDS	KINGS COUNTY WASTE MGMT AUTH.
FRESNO	FRESNO	5F	3	5D100319001-01	10-AA-0013	ORANGE AVENUE DISPOSAL COMPANY	ORANGE AVENUE LANDFILL	ORANGE AVENUE DISP CO. INC
TULARE	EXETER	5F	3	5D540300005-01	54-AA-0002	TULARE COUNTY-EXETER DISPOSAL SITE	EXETER SWDS	TULARE, COUNTY OF
MERCED	ATWATER	5F	4	5C240115001-01		ATWATER CITY	BERT CRANE ROAD LANDFILL	ATWATER, CITY OF
FRESNO	FOWLER	5F	5	5D100325N01-01		FOWLER CITY	FOWLER CITY LANDFILL (OLD)	FOWLER, CITY OF
BUTTE	OROVILLE	5R	2	5A042005001-01		KOPPERS COMPANY-OROVILLE SITE	KOPPERS WOOD PRESERVING ISW	KOPPERS INDUSTRIES INC.
BUTTE	CHICO	5R	4	5A040302N01-01		CHICO CITY BURN DUMP	HUMBOLDT ROAD LANDFILL	CHICO, CITY OF
SACRAMENTO	SACRAMENTO	5S	1	5A340700003-01	34-AA-0008	US AIR FORCE-MCCLELLAN AFB LANDFILL	CLASS III SITE 8 (CLOSURE)	US AIR FORCE-MCCLELLAN AFB
SACRAMENTO	MATHER (Rancho Cordova)	5S	2	5A340700001-01		US AIR FORCE-MATHER FIELD LANDFILL	MATHER AFB ENVIRONMENTAL MGMT	US AIR FORCE – MATHER AFB
SACRAMENTO	SACRAMENTO	5S	3	5B342000N01-01		SACRAMENTO ARMY DEPOT	SACRAMENTO ARMY DEPOT	U S. ARMY
SAN JOAQUIN	STOCKTON	5S	3	5 390002NUR-01	39-AA-0006	US NAVY COMMUNICATIONS LANDFILL	U.S.N. COMMUNICATION STA. LANDF	U.S. NAVY COMMUNICATIONS
SAN JOAQUIN	FRENCH CAMP	5S	3	5 390003NUR-01		US ARMY-SHARPE ARMY DEPOT	US ARMY-SHARPE ARMY DEPOT	US ARMY
SAN JOAQUIN	TRACY	5S	5	5 390006NUR-01		SITE 300 (OTHER 39 WMUS)	LAWRENCE LIVERMORE LAB	LAWRENCE LIVERMORE LABS
INYO	KEELER	6V	1	6B142000041-01	14-AA-0008	US TUNGSTEN OWENS LAKE LANDFILL	OWENS LAKE LANDFILL	UMETCO MINERALS CORPORATION
ORANGE	FULLERTON	8	1	8300002NUR-01		MCCOLL SITE	MCCOLL SLUDGE DISPOSAL SITE	TOXIC SUBSTANCES CONTROL DIVIS
RIVERSIDE	RIVERSIDE	8	1	8 330325001-01		STRINGFELLOW QUARRY ACID PITS	STATE OF CALIFORNIA-STRINGFELLOW	TOXIC PROGRAM MANAGEMENT SECT

REGION	FACILITY ID	FACILITY NAME	AGENCY NAME	PLACE TYPE	PLACE SUBTYPE	FACILITY TYPE	AGENCY TYPE	# OF AGENCIES	PLACE ADDRESS	PLACE CITY	PLACE ZIP	PLACE COUNTY	PLACE LATITUDE
6B	236378	LANCASTER WTF	LA CO SD 14	Facility	Wastewater Treatment Facility	Municipal/ Domestic	County Agency	1	1865 W AVE D	LANCASTER	93534	Los Angeles	
6B	236378	LANCASTER WTF	LA CO SD 14	Facility	Wastewater Treatment Facility	Municipal/ Domestic	County Agency	1	1865 W AVE D	LANCASTER	93534	Los Angeles	
6B	247448	PALMDALE WTF	LA CO SD 20	Facility	Wastewater Treatment Facility	Municipal/ Domestic	County Agency	1	30TH ST E & AVE P	PALMDALE	93550	Los Angeles	
4	266940	Tapia WRF	Las Virgenes MWD	Facility	Wastewater Treatment Facility	Municipal/ Domestic	Special District	1	731 Malibu Canyon Road	Calabasas	91302	Los Angeles	34.081499
4	715631	1st Street Viaduct Widening over Los Angeles River		Facility					1st St btwn Vignes St & Mission Rd	Los Angeles	90012	Los Angeles	
4	260429	Santa Susana Field Laboratory	The Boeing Company	Facility		All other facilities	Privately-Owned Business	1	5800 Woolsey Canyon Road	Canoga Park	91304-1148	Los Angeles	34.238158
4	221369	Diamond Tire Center	Diamond Tire Center	Facility		All other facilities	Privately-Owned Business	1	16604 Pioneer Boulevard	Artesia	90701	Los Angeles	33.880228
9	255467	SAN VICENTE CREEK	San Diego Country Estates HOA	Facility		All other facilities	Privately-Owned Business	1		RAMONA	92065	Los Angeles	
4	223110	Former Excello Plating Co Inc.	Excello Plating Co Inc	Facility	Groundwater Cleanup Site	All other facilities	Privately-Owned Business	1	4057 & 4059 Goodwin Avenue	Los Angeles	90039	Los Angeles	34.137089
6B	251482	RAILROAD TRACKS LANCASTER	Southern Pacific Transport Co	Facility		All other facilities	Privately-Owned Business	1	SIERRA HWY AND AVE H	LANCASTER		Los Angeles	

REGION	FACILITY ID	PLACE LONGITUDE	SIC CODE 1	SIC DESC 1	SIC CODE 2	SIC DESC 2	SIC CODE 3	SIC DESC 3	NAICS CODE 1	NAICS DESC 1	NAICS CODE 2	NAICS DESC 2	NAICS CODE 3	NAICS DESC 3	# OF PLACES	SOURCE OF FACILITY	DESIGN FLOW	THREAT TO WATER QUALITY	COMPLEXITY
6B	236378		4952	Sewerage Systems											1	Reg Meas	16	1	A
6B	236378		4952	Sewerage Systems											1	Reg Meas	16	1	A
6B	247448		4952	Sewerage Systems											1	Reg Meas	10	1	A
4	266940	-118.704268	4952	Sewerage Systems	999	Nonclassifiable Establishments									1	Reg Meas	16.1	1	A
4	715631														1	Enf Action			
4	260429	-118.660757	3761	Guided Missiles and Space Vehicles	3764	Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts									1	Reg Meas			
4	221369	-118.082345													1	Reg Meas			
9	255467														1	Reg Meas			
4	223110	-118.269612	3471	Electroplating, Plating, Polishing, Anodizing, and Coloring											1	Reg Meas			
6B	251482		4011	Railroads, Line-haul Operating											1	Reg Meas			

REGION	FACILITY ID	PRETREATMENT	FACILITY WASTE TYPE	FACILITY WASTE TYPE 2	FACILITY WASTE TYPE 3	FACILITY WASTE TYPE 4	PROGRAM	# OF PROGRAMS	WDID	REG MEASURE ID	REG MEASURE TYPE	REGION	ORDER #	NPDES # CA#	MAJOR-MINOR	NPDES TYPE	RECLAMATION	DREDGE FILL FEE	301H
6B	236378	X - Facility is not a POTW	Designated domestic sewage				NON15	1	6B190107017	132044	WDR	6B	02-053				1 - Producer		
6B	236378	X - Facility is not a POTW	Designated domestic sewage				NON15	1	6B190107017	132044	WDR	6B	02-053				1 - Producer		
6B	247448	X - Facility is not a POTW	Designated domestic sewage				NON15	1	6B190107069	148231	WDR	6B	R6V-2000-057				1 - Producer		
4	266940	Y - POTW has EPA approved pretreatment program	Hazardous domestic sewage/industrial waste				NPDES	1	4B190104001	376254	NPDES Permits	4	R4-2010-0165	CA0056014	Major	MUN	2 - Producer-User		N
4	715631						CER	1											
4	260429						UNREGS	1	4A562013N01	341596	Unregulated	4	Unregulated discharge.						
4	221369						TANKS	1		169459	Unregulated	4	Unreg UST						
9	255467						UNREGS	1	9 000509N03	170808	Unregulated	9							
4	223110						WIP	1	4WIP1135243	165819	Unregulated	4	WIP Case 113.5243						
6B	251482						UNREGS	1	6B198050N02	160840	Unregulated	6B							

REGION	FACILITY ID	APPLICATION FEE AMT RECEIVED	STATUS	STATUS DATE	EFFECTIVE DATE	EXPIRATION/ REVIEW DATE	TERMINATION DATE	WDR REVIEW - AMEND	WDR REVIEW - REVISE/RENEW	WDR REVIEW - RESCIND	WDR REVIEW - NO ACTION REQUIRED	WDR REVIEW - PENDING	WDR REVIEW - PLANNED	STATUS ENROLLEE	INDIVIDUAL/ GENERAL	FEE CODE	STAFF ASSIGNED	# OF STAFF ASSIGNED
6B	236378		Active	11/10/2009	9/11/2002	9/11/2014								N	I	58 - Non15 Based on (TTWQ)/CPLX)	Mike Coony	1
6B	236378		Active	11/10/2009	9/11/2002	9/11/2014								N	I	58 - Non15 Based on (TTWQ)/CPLX)	Mike Coony	1
6B	247448		Historical	11/10/2011	6/14/2000	6/14/2014	3/9/2011							N	I	58 - Non15 Based on (TTWQ)/CPLX)	Mike Coony	1
4	266940		Active	10/19/2010	10/22/2010	8/10/2015								N	I	66 - NPDES Based on Flow	Erin Mustain	2
4	715631																	
4	260429		Active	3/3/2008	11/6/2007									N	I			
4	221369		Never Active	6/15/2011										N	I		Ahmad Lamaa	1
9	255467		Active	6/17/2005										N			Ben Neill	1
4	223110		Active	6/17/2005										N	I			
6B	251482		Active	6/17/2005										N			Ted Saari	1

REGION	FACILITY ID	SUPERVISOR	# OF SUPERVISORS	DIRECTION /VOICE	ENFORCEMENT ID (EID)	REGION	ORDER / RESOLUTION NUMBER	ENFORCEMENT ACTION TYPE	EFFECTIVE DATE	YEAR EFFECTIVE	ADOPTION /ISSUANCE DATE	ACHIEVE DATE	TERMINATION DATE	ACL ISSUANCE DATE	EPL ISSUANCE DATE	STATUS
6B	236378			Passive	340287	6B	R6V-2004-0038A1	Cease and Desist Order	11/29/2007	2007						Active
6B	236378			Passive	253362	6B	R6V-2004-0038	Cease and Desist Order	10/13/2004	2004						Active
6B	247448			Passive	249933	6B	R6V-2003-0056	Clean-up and Abatement Order	11/12/2003	2003						Active
4	266940			Passive	377389	4	R4-2010-0167	Cease and Desist Order	9/2/2010	2010	9/2/2010					Active
4	715631				370521	4	R4-2009-0083	Clean-up and Abatement Order	7/30/2009	2009	7/30/2009					Active
4	260429			Passive	341411	4	R4-2007-0054	Clean-up and Abatement Order	11/6/2007	2007	11/6/2007					Active
4	221369			Passive	379727	4	R4-2006-025	Clean-up and Abatement Order	3/8/2006	2006	3/8/2006					Active
9	255467	Mike McCann	1	Passive	244694	9	R9-2003-0178	Clean-up and Abatement Order	4/24/2003	2003						Active
4	223110			Passive	320936	4	R4-2003-0038-R	Clean-up and Abatement Order	6/2/2005	2005	6/2/2005					Active
6B	251482			Passive	219696	6B	87-123	Clean-up and Abatement Order	9/24/1987	1987						Active

REGION	FACILITY ID	TITLE	DESCRIPTION	PROGRAM	# OF PROGRAMS	ASSIGNED STAFF	# OF ASSIGNED STAFF	SUPERVISOR	# OF SUPERVISORS	LATEST MILESTONE COMPLETION DATE	TOTAL ASSESSMENT AMOUNT	INITIAL ASSESSED AMOUNT	LIABILITY $ AMOUNT
6B	236378	Amended CAO- 6B190107017	Elimination of effluent induced overflow to Rosamond Dry Lake	NON15	1			Mike Plaziak	1		0	0	0
6B	236378	Enforcement - 6B190107017	Elimination of effluent induced overflow to Rosamond Dry Lake	NON15	1			Mike Plaziak	1		0	0	0
6B	247448	Enforcement - 6B190107069	The Discharger will: Investigate and delineate plume; contain plume; extract polluted and degraded ground water for agricultural reuse; modify operations to protect gw quality; and, report status monthly and quarterly.	NON15	1			Mike Plaziak	1	9/15/2004	0	0	0
4	266940	CDO R4-2010-0167 enforcing R4-2010-0165 Las Virgenes MWD, Tapia WRF	CDO R4-2010-0167 enforcing R4-2010-0165 Las Virgenes MWD, Tapia WRF. Includes interim effluent limitations and a time schedule for Dichlorobromomethane (DCBM).	NPDES	1	Pansy Yuen	1				0	0	0
4	715631	CAO R4-2009-0083 issued 7/30/09 for violations of 401 Certification.	CAO R4-2009-0083 issued 7/30/09 for violations of 401 Certification.	CER	1	Dana Cole	1			8/20/2009	0	0	0
4	260429	CAO R4-2007-0054 issued 11/6/07 for cleanup of wastes.	CAO R4-2007-0054 issued 11/6/07 to clean up LOX debris field and former shooting range, both in the Northern Drainage area.	UNREGS	1	Cassandra Owens	2				0	0	0
4	221369	CAO R4-2006-025 for Diamond Tire Center (03/08/06)	CAO R4-2006-025 for Diamond Tire Center (03/08/06) to compel the RP to assess, monitor, report, and clean up and abate the effects of gasoline discharged to soil and groundwater.	TANKS	1	Ahmad Lamaa	1				0	0	0
9	255467	Enforcement - 9 000509N03	CAO issued to San Diego Country Estates Home Owners Association. The HOA dammed San Vicente Creek upstream of the reservoir. They also discharged masonry rubble, horse bedding and large boulders into the creek.	UNREGS	1			Stacey Baczkowski	1		0	0	0
4	223110	CAO (revised) R4-2003-0038-R issued 6/2/05: Time schedule for SA & RAP.	CAO (revised) R4-2003-0038-R issued 6/20/03 contains a time schedule to determine the extent of the contamination & implement a RAP.	WIP	1	Lawrence Moore	1				0	0	0
6B	251482	Enforcement - 6B198050N02	CLEANUP AND ABATE THE EFFECTS OF THE DISCHARGE OF CRUDE OIL AND DIESEL FUEL THE GROUNDWATERS	UNREGS	1						0	0	0

REGION	FACILITY ID	PROJECT $ AMOUNT	LIABILITY $ PAID	PROJECT $ COMPLETED	TOTAL $ PAID / COMPLETED AMOUNT	AGENCY ISSUING ENF	DATE OF OLDEST VIOLATION LINKED TO ENFORCEMENT ACTION	RANK 1 VIOLATIONS	RANK 2 VIOLATIONS	RANK 3 VIOLATIONS	UNCLASSIFIED VIOLATIONS	ATOX VIOLATIONS #	BMP VIOLATIONS #	BASIN PLAN PROHIBITION VIOLATIONS #	CAT1 VIOLATIONS #	CAT2 VIOLATIONS #
6B	236378	0	0	0	0			0	0	0	0	0	0	0	0	0
6B	236378	0	0	0	0			0	0	0	0	0	0	0	0	0
6B	247448	0	0	0	0		6/12/2003	3	0	0	1	0	0	0	0	0
4	266940	0	0	0	0			0	0	0	0	0	0	0	0	0
4	715631	0	0	0	0			0	0	0	0	0	0	0	0	0
4	260429	0	0	0	0			0	0	0	0	0	0	0	0	0
4	221369	0	0	0	0		6/15/2006	0	2	1	0	0	0	0	0	0
9	255467	0	0	0	0		3/27/2003	0	0	0	0	0	0	0	0	0
4	223110	0	0	0	0			0	0	0	0	0	0	0	0	0
6B	251482	0	0	0	0			0	0	0	0	0	0	0	0	0

REGION	FACILITY ID	CTOX VIOLATIONS #	DEFICIENT MONITORING VIOLATIONS #	DEFICIENT REPORT VIOLATIONS #	ENFORCEMENT ACTION VIOLATIONS #	FEES VIOLATIONS #	GROUNDWATER VIOLATIONS #	HYDRO MODIFICATION VIOLATIONS #	LATE REPORT VIOLATIONS #	OEV VIOLATIONS #	OTHER CODES VIOLATIONS #	PERMIT CONDITION VIOLATIONS #	PRETREATMENT VIOLATIONS #	REPORTING FAILURE TO NOTIFY VIOLATIONS #	SSO VIOLATIONS #
6B	236378	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6B	236378	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6B	247448	0	0	0	0	0	11	0	0	0	0	0	0	0	0
4	266940	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	715631	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	260429	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	221369	0	0	0	0	0	0	0	0	0	0	3	0	0	0
9	255467	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	223110	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6B	251482	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REGION	FACILITY ID	SURFACE WATER VIOLATIONS #	SWPPP VIOLATIONS #	UNAUTHORIZED DISCHARGE VIOLATIONS #	PRIORITY VIOLATIONS	TOTAL MMP VIOLATIONS #	EFFLUENT MMP SERIOUS	CHRONIC MMP	REPORTING MMP SERIOUS	TOTAL # OF VIOLATIONS LINKED TO THIS ENFORCEMENT ACTION	ECONOMIC BENEFIT	STAFF COST	MAXIMUM POTENTIAL LIABILITY
6B	236378	0	0	0	0	0	0	0	0	0			
6B	236378	0	0	0	0	0	0	0	0	0			
6B	247448	0	0	0	4	0	0	0	0	11	0	0	0
4	266940	0	0	0	0	0	0	0	0	0			
4	715631	0	0	0	0	0	0	0	0	0	0	5100	0
4	260429	0	0	0	0	0	0	0	0	0			
4	221369	0	0	0	0	0	0	0	0	3	0	0	0
9	255467	0	0	1	1	0	0	0	0	1			
4	223110	0	0	0	0	0	0	0	0	0			
6B	251482	0	0	0	0	0	0	0	0	0			

Cortese List: Section 65962.5(a)

Information Required From the Department of Toxic Substances Control (DTSC) Under Government Code Section 65962.5(a)

Section 65962.5(a)(1) requires that DTSC "shall compile and update as appropriate, but at least annually, and shall submit to the Secretary for Environmental Protection, a list of all the following: ....(1) [a]ll hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code ("HSC")."

The hazardous waste facilities identified in HSC § 25187.5 are those where DTSC has taken or contracted for corrective action because a facility owner/operator has failed to comply with a date for taking corrective action in an order issued under HSC § 25187, or because DTSC determined that immediate corrective action was necessary to abate an imminent or substantial endangerment. This is a very small and specific subgroup of facilities and they are not separately posted on the DTSC or Cal/EPA's website.

The facilities listed below fall under this category:

- AAD Distribution & Dry Cleaning Inc.
  EPA ID CAD981397417
  2306 E. 38th Street
  Vernon, CA 90058
- The Marquardt Co.
  CA ID CAD044696102
  16555 Saticoy Street
  Van Nuys, CA 91406

Section 65962.5(a)(2) requires that DTSC "shall compile and update as appropriate, but at least annually, and shall submit to the Secretary for Environmental Protection, a list of all the following: ... (2) [a]ll land designated as hazardous waste property or border zone property pursuant to Article 11 (commencing with Section 25220) of Chapter 6.5 of Division 20 of the Health and Safety Code."

No facilities or lands are listed under this provision because DTSC has not designated any hazardous waste property or border zone property pursuant to the cited provisions.

Section 65962.5(a)(3) requires that DTSC "shall compile and update as appropriate, but at least annually, and shall submit to the Secretary for Environmental Protection, a list of all the following: ....(3) [a]ll information received by the Department of Toxic Substances Control pursuant to Section 25242 of the Health and Safety Code on hazardous waste disposals on public land.

HSC § 25242(a) requires a city, county, or state agency that owns or leases land to notify DTSC if it "has probable cause to believe that a disposal of hazardous waste, which is not authorized pursuant to this chapter has occurred on, under or into the land which the city, county, or state agency owns or leases..."; DTSC then shall determine if there has been an unauthorized disposal of hazardous waste.

In practice, if a city, county or state agency contacts DTSC to provide such information, they also will have contacted or will be directed to contact DTSC's Emergency Response Duty Officer, who determines whether to authorize DTSC-funding for an emergency action to properly remove and dispose of the hazardous waste.

DTSC's Emergency Response program does not keep separate records of such reports that relate to city, county or state agency property.

In the future, DTSC will track any reports received from cities, counties, or state agencies of hazardous waste disposal on land owned or leased by a city, county or state agency, where hazardous waste was released into the environment, and provide the information to Cal/EPA for inclusion in this section of the Cortese list.

Section 65962.5(a)(4) requires that DTSC "shall compile and update as appropriate, but at least annually, and shall submit to the Secretary for Environmental Protection, a list of all the following: ....(4) [a]ll sites listed pursuant to Section 25356 of the Health and Safety Code."

HSC § 25356(b)(1) requires "a listing of hazardous substance release sites selected for, and subject to, a response action under this chapter." HSC § 25356(b)(2) requires DTSC to "update the list of sites at least annually to reflect new information regarding previously listed sites or the addition of new sites requiring response action." The implementing regulations provide that sites may be listed pursuant to HSC § 25356 if (a) they are not owned by the Federal Government and (b) a release or threatened release of hazardous substances has been confirmed by on-site sampling. (California Code of Regulations, Title 22, Section 67400.1). DTSC's list of sites that meet those criteria as well as the criteria in HSC § 25356(c), is found in a report in DTSC's "Envirostor" database:

- Hazardous Waste and Substances site "Cortese" list

Sites where response actions have been completed and no operation and maintenance activities are required are not included on the list.

Section 65962.5(a)(5) requires that DTSC "shall compile and update as appropriate, but at least annually, and shall submit to the Secretary for Environmental Protection, a list of all the following: ....(5) [a]ll sites included in the Abandoned Site Assessment Program."

DTSC had an abandoned site program in the 1980s. HSC § 25369, which was enacted in 1985, required an abandoned site survey in "rural unsurveyed counties." Sites identified in the abandoned site program were included in the "CalSites" database of known and potential hazardous substance release sites. After further investigation, many sites were removed from the "CalSites" database because there was no evidence that a release of hazardous substances occurred. Some time in the early 1990s, DTSC's activities under HSC § 25369, and the entire Abandoned Site Program, were concluded.

DTSC recently replaced the "CalSites" database with a new database of hazardous substance release sites, known as the "EnviroStor" database. The EnviroStor database does not indicate if a specific site was at one time included in the abandoned site program and does not have a category for sites that are considered abandoned. The CalSites database also did not include this information. Consequently, DTSC does not provide the information to Cal/EPA originally called for under section 65962.5(a)(5).

Background and History | **Cortese List Home**

Last updated: October 06, 2011
California Environmental Protection Agency, http://www.calepa.ca.gov
General Public Contact, cepacomm@calepa.ca.gov (916) 323-2514

APPENDIX E

Noise Analysis

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 03/14/2013
Case Description: City of S. Pasadena Pipeline Rehab Project - CIPP Method

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Residence at 50 feet	Residential	55.0	50.0	45.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Pumps	No	50		80.9	50.0	0.0
All Other Equipment > 5 HP	No	50	85.0		50.0	0.0

Results

	Calculated (dBA) Day		Evening		Night		Noise Limits (dBA) Day		Evening		Night		Noise Limit Exceedance (dBA) Day		Evening		Night	
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Pumps	80.9	77.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	85.0	82.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	85.0	83.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Residence at 20 feet	Residential	55.0	50.0	45.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)

Pumps	No	50		80.9	20.0	0.0
All Other Equipment > 5 HP	No	50	85.0		20.0	0.0

Results

Equipment	Calculated (dBA) Night Lmax	Calculated (dBA) Night Leq	Calculated (dBA) Day Lmax	Calculated (dBA) Day Leq	Calculated (dBA) Evening Lmax	Calculated (dBA) Evening Leq	Noise Limits (dBA) Night Lmax	Noise Limits (dBA) Night Leq	Noise Limits (dBA) Day Lmax	Noise Limits (dBA) Day Leq	Noise Limits (dBA) Evening Lmax	Noise Limits (dBA) Evening Leq	Noise Limit Exceedance (dBA) Night Lmax	Noise Limit Exceedance (dBA) Night Leq	Noise Limit Exceedance (dBA) Day Lmax	Noise Limit Exceedance (dBA) Day Leq	Noise Limit Exceedance (dBA) Evening Lmax	Noise Limit Exceedance (dBA) Evening Leq
Pumps	88.9	85.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	93.0	89.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	93.0	91.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 03/14/2013
Case Description: City of S. Pasadena Pipeline Rehab Proj - Open Trench Method

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Residence at 50 feet	Residential	55.0	50.0	45.0

Equipment

Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40	77.6	50.0	0.0
Paver	No	50	77.2	50.0	0.0
Flat Bed Truck	No	40	74.3	50.0	0.0

Results

	Calculated (dBA)		Noise Limits (dBA) Day		Evening		Night		Noise Limit Exceedance (dBA) Day		Evening		Night	
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	77.6	73.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	77.2	74.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	74.3	70.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	77.6	77.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Residence at 20 feet	Residential	55.0	50.0	45.0

Equipment

Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)

Backhoe	No	40	77.6	20.0	0.0
Paver	No	50	77.2	20.0	0.0
Flat Bed Truck	No	40	74.3	20.0	0.0

Results

	Calculated (dBA)		Noise Limits (dBA) Day		Evening		Night		Noise Limit Exceedance (dBA) Day		Evening		Night	
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	85.5	81.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	85.2	82.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	82.2	78.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	85.5	85.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Ground-borne Vibration Analysis - Construction (Open Trench)

Potentially Impacted [1] Receiver Distance	Damage Assessment -Peak Particle Velocity (in/sec)[2]	Annoyance Assessment - RMS Velocity Level (VdB re 1 micro in/sec) [2]	FTA Construction Vibration Damage Criteria (PPV in/sec)[3]	FTA Damage Criteria Exceeded ?	FTA Construction Vibration Annoyance Criteria RMS Velocity Level (VdB re 1 micro in/sec)[3]	FTA Annoyance Criteria Exceeded ?
20	0.004	61	0.2	No	80	No
50	0.027	77	0.2	No	80	No

Assumes a small bulldozer at the 20 foot distance, and a fully loaded truck at 50 feet, the worst-case anticipated activities for these locations

APPENDIX F

CEQA-Plus – Clean Water State Revolving Fund Program Evaluation Form

CLEAN WATER STATE REVOVLING FUND PROGRAM (CWSRF)
INSTRUCTIONS AND GUIDANCE FOR
"ENVIRONMENTAL COMPLIANCE INFORMATION" (Version: October 25, 2011)

Introduction:

Detailed information, including statutes and guidelines on the California Environmental Quality Act (CEQA), can be obtained at http://ceres.ca.gov/ceqa. A CEQA Process Flowchart that shows interaction points between lead and responsible agencies can be found at http://ceres.ca.gov/topic/env_law/ceqa/flowchart/index.html. In addition, State Water Resources Control Board (State Water Board) environmental staff is available to answer questions about the CEQA process. Please contact your assigned Project Manager to be directed to an appropriate environmental staff person for further clarification.

CEQA Information:

All projects coming to the State Water Board for funding are considered "projects" under CEQA because the State Water Board is providing discretionary approval for that funding.

The types of CEQA documents that might apply to an applicant's project include one or a combination of the following: 1. Notice of Exemption; 2. Initial Study and Negative Declaration (or Mitigated Negative Declaration with a Mitigation Monitoring and Reporting Program [MMRP]); or 3. Environmental Impact Report (EIR) with an MMRP. The applicant must determine the appropriate document for its project and submit the additional supporting information listed under the applicable section of the CEQA Checklist, Attachment1, plus a completed copy of the Evaluation Form for Environmental Review and Federal Coordination, Attachment 2. Please submit two copies of all CEQA documents. If the applicant is using a CEQA document that is older than five years, the applicant must re-evaluate environmental and project conditions, and develop and submit an updated environmental document based on the results of that re-evaluation.

The applicant must ensure the CEQA document is specific to the project for which funding is being requested. Tier I CEQA documents, such as Program or Master Plan EIRs, may not be suitable for satisfying State Water Board requirements if these documents are not project-specific. Instead, the applicant should be submitting a Tier II CEQA document that is project-specific. If this Tier II CEQA document references pertinent environmental and mitigation information contained in the Tier I CEQA document, then the applicant must submit both documents. *[NOTE: Tier I and Tier II documents refer to documents as defined under CEQA. Although the same terminology is used, these documents do not relate to the Tier I and Tier II level of reviews under the CWSRF Program.]*

Each applicant, if it is a public agency, is responsible for approving the CEQA documents it uses regardless of whether or not it is a lead agency under CEQA. Non-profit organizations, however, shall only be responsible for approving the applicable project mitigation measures identified in the MMRP. For purposes of State Water Board CWSRF Program, all public agencies applying for this funding shall file either a Notice of Exemption or a Notice of Determination with the Governor's Office of Planning and Research (State Clearinghouse) and the county clerk (-s). Stamped copies of these notices shall be submitted with all the applicable environmental documents.

If the CEQA document is linked to a National Environmental Policy Act (NEPA) document (such as an Environmental Assessment or an Environmental Impact Statement), then the applicant shall submit the additional corresponding NEPA items with either a Finding of No Significant Impact, or a Record of Decision made by the lead agency under NEPA. Note that additional information may be requested from the applicant after review of all the environmental documents to ensure the State Water Board can complete its own CEQA compliance.

Federal Information:

CEQA requires full disclosure of all aspects of the project, including impacts and mitigation measures that are not only regulated by state agencies, but also by federal agencies. Early consultation with state and federal agencies in the CEQA process will assist in minimizing changes to the project when funding is being requested from the State Water Board. For the items that follow the CEQA Checklist, the applicant shall provide the information and/or reference any applicable sections from the documents being submitted to assist with environmental staff's CEQA review, as well as to provide applicant guidance on any potential concerns, and to assist with federal coordination as needed.

1. Federal Endangered Species Act (ESA), Section 7:

For further information on the federal ESA relating to law, regulation, policy, and notices, go to http://www.fws.gov/endangered/policy/index.html and http://www.nmfs.noaa.gov/pr/laws/esa/. Note that compliance with both state and federal ESA is required of projects having the potential to impact special status species. Although overlap exists between the federal and state ESAs, there might be additional or more restrictive state requirements. For further information on the state ESA, go to http://www.dfg.ca.gov/habcon/cesa/.

2. Essential Fish Habitat Consultation Process under the Magnuson-Stevens Fishery

Conservation and Management Act:

The Magnuson-Stevens Fishery Conservation and Management Act, as amended, is designed to manage and conserve national fishery resources. Essential Fish Habitat (EFH) consultations are only required for actions that may adversely affect EFH. With assistance from the State Water Board, the applicant needs to determine whether the proposed project may adversely affect EFH. National Marin Fisheries Service (NMFS) have maps and/or other information on the locations of EFH, as well as provide information on ways to promote conservation of EFH to facilitate this assessment. If the project may adversely affect EFH, the applicant must complete an EFH consultation.

The State Water Board will ask USEPA to send the applicant's documentation with a letter requesting an EFH consultation to NMFS. NMFS will respond informally or in writing. NMFS comments may include conservation measures for the project. For more information, see the brochure at: http://www.nmfs.noaa.gov/sfa/reg_svcs/Council%20stuff/council%20orientation/2007/2007TrainingCD/TabT-EFH/EFH_CH_Handout_Final_3107.pdf.

3. National Historic Preservation Act (NHPA), Section 106:

The NHPA focuses on federal compliance. In addition, CEQA requires that impacts to cultural and historic resources be analyzed. The "CEQA and Archeological Resources" section from the Governor's Office of Planning and Research CEQA Technical Advice Series states that the lead agency obtains a current records search from the appropriate California Historical Resources Information System Center. In addition, the Native American Heritage Commission (NAHC) will provide a list of Native American tribes to be contacted and that are culturally affiliated with a project area.

The NAHC can be contacted at:

915 Capitol Mall, Room 364
Sacramento, California 95814
916.653.4082

4. Clean Air Act:

For CWSRF financed projects, we recommend including a general conformity section in the CEQA documents so that another public review process will not be needed, should a conformity determination be required. The applicant should check with its air quality management district and review the Air Resources Board California air emissions map for information on the State Implementation Plan. For information on the analysis steps involved in evaluating conformity, please contact the environmental staff person through the assigned Project Manager.

5. Coastal Zone Management Act:

For affected areas, refer to http://coastalmanagement.noaa.gov/mystate/docs/StateCZBoundaries.pdf. For additional information please refer to http://www.coastal.ca.gov/ccatc.html and/or http://www.bcdc.ca.gov/.

6. Coastal Barriers Resources Act:

The Coastal Barriers Resources Act is intended to discourage development in the Coastal Barrier Resources System and adjacent wetlands, marshes, estuaries, inlets, and near-shore waters. Since there is no designated Coastal Barrier Resources System in California, no impacts from California projects are expected. However, should the applicant believe there may be impacts to the Coastal Barrier Resources System due to special circumstances, please use the following information as a guide.

During the planning process, the applicant should consult with the appropriate Coastal Zone management agency (e.g., City or County with an approved Local Coastal Program, the California Coastal Commission, or the San Francisco Bay Conservation and Development Commission) to determine if the project will have an effect on the Coastal Barrier Resources System. If the project will have an effect on the Coastal Barrier Resources System, the State Water Board must consult with the appropriate Coastal Zone management agency and the United Sates Fish and Wildlife Service (USFWS). Any recommendations from the Coastal Zone management agency and USFWS will be incorporated into the project's design prior to project approval for CWSRF financing.

For more information and to ensure that no modifications to Coastal Barrier Resources System have occurred, please visit: http://www.fws.gov/habitatconservation/coastal_barrier.html.

7. Farmland Protection Policy Act:

The Natural Resources Conservation Service provides information on the Farmland Protection Policy Act at http://www.nrcs.usda.gov/programs/fppa. Please see the following website regarding the Williamson Act http://www.consrv.ca.gov/dlrp/lca.

8. Floodplain Management - Executive Order 11988:

Each agency shall provide leadership and take action to reduce the risk of flood loss, to minimize the impact of floods on human safety, health and welfare, and to restore and preserve the natural and beneficial values served by floodplains in carrying out its responsibilities. Before taking an action, each agency shall determine whether the proposed action will occur in a floodplain. The generally established standard for risk is the flooding level that is expected to occur every 100 years. If an agency determines or proposes to, conduct, support, or allow an action to be located in a floodplain. The agency shall consider alternatives to avoid adverse effects and incompatible development in the floodplains.

For further information regarding Floodplain Management requirements, please consult the following web link: http://www.epa.gov/owow/wetlands/regs/eo11988.html.

9. Migratory Bird Treaty Act (MBTA):

The MBTA, along with subsequent amendments to this Act, provides legal protection for almost all breeding bird species occurring in the United States and must be addressed in CEQA. The MBTA restricts the killing, taking, collecting and selling or purchasing of native bird species or their parts, nests, or eggs. The treaty allows hunting of certain game bird species, for specific periods, as determined by federal and state governments. In the CEQA document, each agency must make a finding that a project will comply with the MBTA. For further information, please consult the following web link: http://www.fws.gov/laws/lawsdigest/migtrea.html.

10. Protection of Wetlands – Executive Order 11990:

Projects, regardless of funding, must get approval for any temporary or permanent disturbance to federal and state waters, wetlands, and vernal pools. The permitting process is usually through the U.S. Army Corps of Engineers (USACOE), can be lengthy and may ultimately require project alterations to avoid wetlands. Applicants must consult with USACOE early in the planning process if any portion of the project site contains wetlands, or other federal waters. The USACOE Wetland Delineation Manual is available at: http://www.wetlands.com/regs/tlpge02e.htm. Also note that the Water Boards are involved in providing approvals through a Clean Water Act Section 401 Water Quality Certification and/or Waste Discharge Requirements (http://www.waterboards.ca.gov/water_issues/programs/cwa401/index.shtml).

11. Wild and Scenic Rivers Act:

There are construction restrictions or prohibitions for projects near or on a "wild and scenic river." A listing of designated "wild and scenic rivers" can be obtained at http://www.rivers.gov/wildriverslist.html_. Watershed information can be obtained through the "Watershed Browser" at: http://cwp.resources.ca.gov/map_tools.php.

12. Safe Drinking Water Act, Source Water Protection: For more information, please visit: http://epa.gov/region09/water/groundwater/ssa.html.

13. Environmental Justice – Executive Order No. 12898:

Identify and address any disproportionately high and adverse human health or environmental effects of the project's activities on minority and low-income populations. USEPA has defined environmental justice as "the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies."

Fair Treatment means that no group of people should bear a disproportionate burden of environmental harms and risks, including those resulting from the negative consequences of industrial, governmental, and commercial operations or programs and policies.

Meaningful Involvement means that: 1) potentially affected community members have an appropriate opportunity to participate in decisions about a proposed activity that will affect their environment and/or health; 2) the public's contribution can influence the agency's decision; 3) the concerns of all participants involved will be considered in the decision-making process; and 4) the decision-makers seek out and facilitate the involvement of those potentially affected.

The term "environmental justice concern" is used to indicate the actual or potential lack of fair treatment or meaningful involvement of minority, low-income, or indigenous populations, or tribes in the development, implementation, and enforcement of environmental laws, regulations, and policies.

Your project may involve an "environmental justice concern" if the project could:

a) Create new disproportionate impacts on minority, low-income, or indigenous populations;
b) Exacerbate existing disproportionate impacts on minority, low-income, or indigenous populations; or
c) Present opportunities to address existing disproportionate impacts on minority, low-income, or indigenous populations that are addressable through the project.

Environmental[1] Package Checklist for Applicant
(What to Submit to Project Manager)

Required for all CWSRF Projects:

- ❑ **Evaluation Form for Environmental Review and Federal Coordination with the substantiating information** (i.e. USFWS species list/biological assessment, cultural resources documentation, air quality data, flood map etc.)
- ❑ **Project Report, Scope of Work and Map(s)**

Based on type of CEQA documents prepared for the project, provide additional information as identified in the following boxes.

If project is covered under a **CEQA Categorical or Statutory Exemption**, submit a copy of the following:

- ❑ **Notice of Exemption** (filed and date stamped by the county clerk and the Governor's Office of Planning and Research)

If project is covered under a **Negative Declaration**, submit a copy of the following:

- ❑ **Draft and Final Initial Study/Negative Declaration (IS/ND)**
  - ❑ Comments and Responses to the Draft IS/ND
- ❑ **Resolution approving the CEQA documents**
  - ❑ Adopting the Negative Declaration
  - ❑ Making CEQA Findings
- ❑ **Notice of Determination** (filed and date stamped by the county clerk and the Governor's Office of Planning and Research)

If project is covered under a **Mitigated Negative Declaration**, submit a copy of the following:

- X **Draft and Final Initial Study/Mitigated Negative Declaration (IS/MND)**
- X Comments and Responses to the Draft IS/MND
- X Mitigation Monitoring and Reporting Plan/Program (MMRP)
- ❑ **Resolution approving the CEQA documents**
  - ❑ Adopting the Mitigated Negative Declaration and the MMRP
  - ❑ Making CEQA Findings
- ❑ **Notice of Determination** (filed and date stamped by the county clerk and the Governor's Office of Planning and Research)

[1] If the CEQA document is more than five years old applicant shall provide an updated CEQA document (e.g., subsequent, supplemental, or addendum CEQA documents) or a letter that describes the current status of the environmental condition for the project's location.

If project is covered under an **Environmental Impact Report (EIR)**, submit a copy of the following:

- ❑ **Draft and Final EIR**
  - ❑ Comments and Responses to the Draft EIR
  - ❑ Mitigation Monitoring and Reporting Plan/Program (MMRP)
- ❑ **Resolution approving the CEQA documents**
  - ❑ Certifying the EIR and adopting the MMRP
  - ❑ Making CEQA Findings
  - ❑ Adopting a Statement of Overriding Considerations for any adverse environmental impact(s), if applicable
- ❑ **Notice of Determination** (filed and date stamped by the county clerk and the Governor's Office of Planning and Research)

If EIR is a joint CEQA/National Environmental Policy Act document (EIR/Environmental Impact Statement or EIR/Environmental

Assessment), submit the applicable Record of Decision and/or the Finding of No Significant Impact.

State Water Resources Control Board (State Water Board)
Clean Water State Revolving Fund Program
November 2011 Version
Evaluation Form for Environmental Review and Federal Coordination

CWSRF No.: _____

Applicant Name: City of South Pasadena

Date: March 2013

Project Title: Sewer Rehabilitation and Replacement Project

1. Federal Endangered Species Act (ESA):
Does the project involve any direct effects from construction activities, or indirect effects such as growth inducement that may affect federally listed threatened or endangered species or their critical habitat that are known, or have a potential, to occur on-site, in the surrounding area, or in the service area?

a. **Required documents: Attach project-level biological surveys, evaluations analyzing the project's direct and indirect effects on special-status species, and an up-to-date species list (from the United States Fish and Wildlife Service and the California Natural Diversity Database) for the project area.**

☐ No. Discuss why the project will not impact any federally listed special status species:

_____
_____
_____
_____
_____
_____
_____

☒ Yes. Provide information on federally listed species that could potentially be affected by this project and any proposed avoidance and compensation measures so that the State Water Board can initiate informal/formal consultation with the applicable federally designated agency. Document any previous ESA consultations that may have occurred for the project. Include any comments below.

Suitable habitat for 33 special-status plant and wildlife species is present within the project area. Potential for these 33 species to occur was determined to be low, moderate, high, or present (i.e. identified during the survey) depending on individual habitat requirements and habitat present within the Study Area. Due to the potential for special-status species to occur in the proposed project areas, five (5) mitigation measures are required to avoid or minimize potential impacts and maintain compliance with established laws and regulations:

BIO-1 The City shall conduct a pre-construction biological survey for special-status species determined to have potential to occur in suitable habitat within the Study Area no more than 72-hours prior to the start of construction activities.

BIO-2 The City shall conduct biological surveys at the segments indicated in Table 3 of the biological constraints survey (Appendix B to the Draft IS/MND) for potentially occurring special-status plant species during spring and fall to ensure avoidance during construction. Surveys should be conducted in suitable habitat during the appropriate blooming period for each plant species, which are as follows: western spleenwort (February-June), Braunton's milk-vetch (January-August), round-leaved filaree (March-May), Plummer's mariposa lily (May-July), intermediate mariposa lily (May-July), Lewis' evening-primrose (March-June), many-stemmed dudleya (April-July), mesa horkelia (February-July), fragrant pitcher sage (March-October), Robinson's pepper-grass (January-July), ocellated Humboldt lily (March-August), Davidson's bush-mallow (June-January), Hubby's phacelia (April-June), white rabbit-tobacco (August-November), Parish's gooseberry (February-April), and Engelman's oak (March-June). Survey needs are presented with corresponding segments and species are listed in Table 3 of Appendix B to the Draft IS/MND.

BIO-3 The City shall coordinate with CDFW if southern California black walnut trees present within the Study Area are determined to require trimming or removal to facilitate the proposed project.

BIO-4 The City's construction contractor shall obtain the appropriate permits from the City of South Pasadena for tree trimming or removal regulated under the City tree regulations.

BIO-5 The City's construction contractor shall limit motor vehicle access to maintained roads and designated routes, where possible.

With incorporation of these mitigation measures, potential impacts to sensitive habitat and species would be less than significant. The required documents described above may be found in Appendix B of the Draft IS/MND for the Sewer Rehabilitation and Replacement Project.

2. <u>Magnuson-Stevens Fishery Conservation and Management Act:</u>

Does the project involve any direct effects from construction activities, or indirect effects such as growth inducement that may adversely affect essential fish habitat?

☒ No. Discuss why the project will not impact essential fish habitat:

There is no essential fish habitat located within the project area; therefore, the project would not result in direct effects to essential fish habitat. Additionally, there is no essential fish habitat in the vicinity; therefore, the project would not result in indirect effects that adversely affect essential fish habitat.

☐ Yes. Provide information on essential fish habitat that could potentially be affected by this project and any proposed avoidance and compensation measures. Document any consultations with the National Marine Fisheries Service that may have occurred for the project. Include any comments below.

3. **National Historic Preservation Act:**
Identify the area of potential effects (APE), including construction, staging areas, and depth of any excavation. (Note: the APE is three dimensional and includes all areas that may be affected by the project, including the surface area and extending below ground to the depth of any project excavations).

- **Required documents: Attach a current records search with maps showing all sites and surveys drawn in relation to the project area, and records of Native American consultation.**

The required documents described above may be found in Appendix C of the Draft IS/MND for the Sewer Rehabilitation and Replacement Project.

The Area of Potential Effects (APE) incorporates all of the proposed construction areas associated with the proposed project, and a ¼ mile radius around the entire project area footprint. The vertical APE will be approximately 5 to 8 feet for the pipelines. Historical resources typically include properties eligible or potentially eligible for the National Register of Historic Places, as well as those that may be significant pursuant to state and local laws and registration programs, such as the California Register of Historical Resources or the City of South Pasadena local City landmarks. A records search was performed for the project area and a ¼-mile radius around the project at the South Central Coast Information Center (SCCIC) at California State University, Fullerton in March 2013. The records search also included a search of the California Points of Historical Interest (PHI), the California Historical Landmarks (CHL), the National Register of Historic Places (NRHP), and the California State Historic Resources Inventory (HRI) listings. The records search results were reviewed to determine the likelihood of unknown archaeological resources in the project area.

The records search identified one archaeological site and 273 above-ground historic resources within the record search area. Of these, 98 of the above-ground historic resources are in the project area while the remaining historic resources and the archaeological site are located within the ¼-mile radius. The HRI lists 1,045 properties in the City which have been evaluated for historic significance. The CRHR lists 157 properties within the project area which are listed as NRHP Status 1 or 2, a CHL numbering 770 and higher, or a PHI listed after 1/1/1998. The NRHP lists 21 properties within the project area. Seven of the historic structures are located within the southwest portion of the project area.

In addition to the records search, a reconnaissance-level cultural resource survey was conducted within and adjacent to the proposed wastewater pipeline improvement project locations that would occur at least partially within open space and involve ground disturbance (i.e., open trenching). Segments of pipeline which are proposed for cured-in-place pipe (CIPP) repairs were not surveyed as they pose little to no risk of ground disturbance. The reconnaissance survey was completed in March 2013, by Dudek archaeologist Brad Comeau. A total of five segments of sewer pipeline were included in the

pedestrian survey due to the open trench nature of work in locations less likely to be previously disturbed. The survey consisted of visiting each of these five proposed pipeline segments and the associated manholes on foot to identify potentially undisturbed land which that may contain cultural resources. Where access to project locations was limited due to private property fences, a visual inspection and photographs were completed in-lieu of a walking survey.

Three of the five locations are located on steep sloped ridges, in excess of 25 degrees. One is located at the top of a similarly steep sloped ridge within a graded road cut. The fifth location is located on flat ground; however, construction of the roadway in this area appears to have removed approximately six feet of soil from a small hill. No bedrock outcrops were observed in the survey area. In the project area between the five locations, it was observed that essentially all undeveloped terrain is on the slopes of ridges/canyons greater than 25 degrees and the canyon bottoms which contain higher probabilities of archaeological sites have all been developed into residential neighborhoods. It is therefore very unlikely that any intact cultural resources are present in the project area.

The City has identified 5 historic districts and 41 historic landmarks within the City (City of South Pasadena 2013). The proposed project would involve in-street and off-street trenching and sewer pipeline replacement, and would be located entirely underground. While construction activities would occur in the street or in public easements, work could occur within designated historic districts and could affect designated historic structures. The following mitigation measures would be required to reduce impacts to cultural resources (both historic and archaeological) to less than significant.

CUL-1 If construction activities occur within a designated historic district or on an easement that passes through a property on which a historic resource is located, the City of South Pasadena or the city's contractor shall comply with the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings or the Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings (1995) by Weeks and Grimmer.

CUL-2 If construction activities occur within a designated historic district or on an easement that passes through a property on which a historic resource is located, the City of South Pasadena shall retain a preservation architect meeting the Secretary of the Interior's Professional Qualifications Standards in historic architecture (preservation architect) to review and comment upon project plans through the design development phase for conformance with the adopted mitigation measure or alternative.

CUL-3 If construction activities occur within a designated historic district or on an easement that passes through a property on which a historic resource is located, the City of South Pasadena shall retain a preservation architect meeting the Secretary of the Interior's Professional Qualifications Standards in historic architecture (preservation architect) to participate in preconstruction and construction monitoring activities to ensure continuing conformance with the Secretary of the Interior's Standards and/or avoidance of a material impairment of the historic resource.

CUL-4: If unexpected, potentially significant archaeological materials are encountered during construction, trenching shall be temporarily redirected or suspended until a qualified archaeologist is retained to evaluate the potential significance of the find. Such materials could include dense and/or intact artifact bearing deposits, features (such as fire pits, privies, foundations), or human remains and grave goods.

4. Federal Clean Air Act:

Identify Air Basin Name: South Coast Air Basin

Name of the Local Air District for Project Area: South Coast Air Quality Management District

Is the project subject to a State Implementation Plan (SIP) conformity determination?

☐ No. The project is in an attainment or unclassified area for all federal criteria pollutants.

☒ Yes. The project is in a nonattainment area or attainment area subject to maintenance plans for a federal criteria pollutant. Include information to indicate the nonattainment designation (e.g. moderate, serious, severe, or extreme), if applicable. If estimated emissions (below) are above the federal de minimis levels, but the project is sized to meet only the needs of current population projections that are used in the approved SIP for air quality, then quantitatively indicate how the proposed capacity increase was calculated using population projections.

- **If you checked "Yes" above, provide the estimated project construction and operational air emissions (in tons per year) in the chart below, and attach supporting calculations.**
- **Also, attach any air quality studies that may have been done for the project.**

The air quality study for the project may be found in the Draft IS/MND for the proposed Sewer Rehabilitation and Replacement Project. Appendix A of the Initial Study/MND provides estimated construction emission. Maximum annual construction emissions would occur in 2014. In 2014, emissions associated with cured-in-place pipe (CIPP) construction and open trench construction as estimated using the California Emissions Estimator Model (CalEEMod) Version 2011.1.1, would generate 0.12 tons/year of VOC, 0.80 tons/year of NO_x, 0.64 tons/year of CO, 0.00 tons/year of SO_2, 0.09 tons/year of PM_{10}, and 0.06 tons/year of $PM_{2.5}$. In addition to the emissions estimated using CalEEMod, emissions were estimated for a boiler truck (equipped with a propane-fueled steam boiler) and a refrigerated truck (equipped with a diesel-powered transport refrigeration unit). In 2014, the boiler truck would operate for 150 days/year resulting in 0.02 tons/year of VOC, 0.09 tons/year of NO_x, 0.21 tons/year of CO, 0.04 tons/year of SO_2, 0.02 tons/year of PM_{10}, and 0.02 tons/year of $PM_{2.5}$. The transport refrigeration unit is estimated to operate for 1,200 hours in 2014, resulting in 0.02 tons/year of VOC, 0.13 tons/year of NO_x, 0.03 tons/year of CO, 0.00 tons/year of SO_2, 0.01 tons/year of PM_{10}, and 0.01 tons/year of $PM_{2.5}$. Maximum daily emissions would occur in 2013; please see Draft IS/MND Section 4.3, Air Quality for maximum construction emissions generated during concurrent CIPP construction, open trench construction, boiler truck operation, and transport refrigeration unit operation. Maximum annual construction emissions would be generated in 2014. Operational emissions as a result of the project would not increase.

Pollutant	Federal Status (Attainment, Nonattainment, Maintenance, or Unclassified)	Nonattainment Rates (i.e., moderate, serious, severe, or extreme)	Threshold of Significance for Project Air Basin Construction Thresholds (Pounds/Day)	Construction Emissions (Pounds/Day) [a]	General Conformity De Minimis Threshold (Tons/Year)	Construction Emissions (Tons/Year)[b]	Operation Emissions (Tons/Year)
Ozone (O_3)[c]	Nonattainment	Extreme	n/a	n/a	n/a	n/a	n/a
Carbon Monoxide (CO)	Attainment	Maintenance	550	18.65	100	0.98	n/a
Oxides of Nitrogen (NO_x)	Unclassifiable/ Attainment (NO_2)	n/a	100	22.10	10	1.02	n/a
Reactive Organic Gases (ROG)[d]	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Volatile Organic Compounds (VOC)[d]	n/a	n/a	75	3.53	10	0.16	n/a

Lead (Pb)[e]	Attainment	--	3	--	n/a	--	n/a
Particulate Matter less than 2.5 microns in diameter ($PM_{2.5}$)	Nonattainment	--	55	1.83	100	0.09	n/a
Particulate Matter less than 10 microns in diameter (PM_{10})	Nonattainment	Serious	150	2.58	70	0.12	n/a
Sulfur Dioxide (SO_2)	Attainment	--	150	0.57	n/a	0.04	n/a

[a] Maximum unmitigated daily winter or summer construction emissions.

[b] Maximum unmitigated annual emissions generated during the anticipated construction schedule (August 2013 to August 2017) would occur in 2014.

[c] O_3 is a secondary pollutant formed in the atmosphere by a photochemical process involving the sun's energy and O_3 precursors, such as hydrocarbons and NO_x. These precursors are mainly NO_x and VOCs (also referred to as ROCs or ROGs). Accordingly, the South Coast Air Quality Management District has established thresholds for NO_x and VOC, but there are no thresholds O_3.

[d] ROG and VOC are considered equal for the purposes of air quality emissions analysis. The South Coast Air Quality Management District established thresholds for VOCs. Although there are no ambient air quality standards or attainment classifications for VOCs or NO_x, they are important as precursors to O_3.

[e] 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 has not been evaluated in this analysis.

5. <u>Coastal Zone Management Act:</u>
Is any portion of the project site located within the coastal zone?

☒ No. The project is not within the coastal zone.

☐ Yes. Describe the project location with respect to coastal areas and the status of the coastal zone permit, and provide a copy of the coastal zone permit or coastal exemption:

_____
_____
_____
_____
_____
_____

6. <u>Coastal Barriers Resources Act:</u>
Will the project impact or be located within or near the Coastal Barrier Resources System or its adjacent wetlands, marshes, estuaries, inlets, and near-shore waters? Note that since there is currently no Coastal Barrier Resources System in California, projects located in California are not expected to impact the Coastal Barrier Resources System in other states. If there is a special circumstance in which the project may impact a Coastal Barrier Resource System, indicate your reasoning below.

☒ No. The project will not impact or be located within or near the Coastal Barrier Resources System or its adjacent wetlands, marshes, estuaries, inlets, and near-shore waters.

☐ Yes. Describe the project location with respect to the Coastal Barrier Resources System, and the status of any consultation with the appropriate Coastal Zone management agency and the United States Fish and Wildlife Service:

_____
_____
_____
_____

7. <u>Farmland Protection Policy Act:</u>
Is any portion of the project located on important farmland?

☒ No. The project will not impact farmland.

☐ Yes. Include information on the acreage that would be converted from important farmland to other uses. Indicate if any portion of the project boundaries is under a Williamson Act Contract and specify the amount of acreage affected:

_____
_____
_____
_____
_____

8. <u>Flood Plain Management:</u>
Is any portion of the project located within a 100-year floodplain as depicted on a floodplain map or otherwise designated by the Federal Emergency Management Agency?

- **Required documents: Attach a floodplain map.**

☐ No. Provide a description of the project location with respect to streams and potential floodplains:

_____

☒ Yes. Describe the floodplain, and include a floodplains/wetlands assessment. Describe any measures and/or project design modifications that would minimize or avoid flood damage by the project:

The City of South Pasadena is located on Panel No. 0650671 of the FIRM maps. According to the City of South Pasadena General plan, the entire City is located within Zone C, which designates areas of minimal flooding. According to FEMA, the entire City is designated as "area of minimal flood hazard, usually depicted on FIRMs as above the 500-year flood level." The proposed project would have no effect on flooding potential as construction and operation of the proposed project would occur entirely underground and would not affect any streams or rivers, and does not include habitable or above-ground structures. Additionally, the proposed project would not introduce additional impervious area and therefore would not result in an increase in surface runoff or flooding risk.

9. <u>Migratory Bird Treaty Act:</u>
Will the project affect protected migratory birds that are known, or have a potential, to occur on-site, in the surrounding area, or in the service area?

☐No. Provide an explanation below.

_____
_____
_____
_____

☒Yes. Discuss the impacts (such as noise and vibration impacts, modification of habitat) to migratory birds that may be directly or indirectly affected by the project and mitigation measures to reduce or eliminate these impacts. Include a list of all migratory birds that could occur where the project is located:

Suitable habitat for 33 special-status plant and wildlife species is present within the Study Area (as shown in Figure 3 of the Draft IS/MND). Potential for these 33 species to occur was determined to be low, moderate, high, or present (i.e. identified during the survey) depending on individual habitat requirements and habitat present within the project area. A list of potentially affected species is provided in Appendix B to the Draft IS/MND.

To avoid impacts to migratory bird species protected under the Migratory Bird Treaty Act (MBTA), the City and/or city's construction contractor should conduct tree and vegetation trimming/clearing during the non-nesting season for birds, which generally extends from September through February. If tree and vegetation trimming/ clearing needs to occur from March through August, then a pre-construction nesting bird survey to be completed by a qualified biological monitor no more than 72-hours prior to the start of work is required. If breeding or nesting birds are found within or immediately adjacent to work areas then additional coordination with the USFWS and/or the CDFW may be required to comply with the federal Migratory Bird Treaty Act of 1918 (16U.S.C. 703-711) and California Fish and Wildlife Code.

10. <u>Protection of Wetlands:</u>
Does any portion of the project boundaries contain areas that should be evaluated for wetland delineation or require a permit from the United States Army Corps of Engineers?

☒ No. Provide the basis for such a determination:

As part of the biological constraints survey report, the Study Area was evaluated for the potential to support jurisdictional waters regulated under the federal Clean Water Act, California Fish and Game Code, and Porter-Cologne Water Quality Act (see Appendix B to the MND). None of the surveyed areas had potential for jurisdictional waters and therefore, no impact would occur.

☐ Yes. Describe the impacts to wetlands, potential wetland areas, and other surface waters, and the avoidance, minimization, and mitigation measures to reduce such impacts. Provide the status of the permit and information on permit requirements:

_____
_____
_____
_____

11. <u>Wild and Scenic Rivers Act:</u>

Identify watershed where the project is located: _____

Is any portion of the project located within a wild and scenic river?

☒ No. The project will not impact a wild and scenic river.

☐ Yes. Identify the wild and scenic river watershed and project location relative to the affected wild and scenic river:

_____
_____
_____
_____

12. <u>Safe Drinking Water Act, Sole Source Aquifer Protection:</u>
Is the project located in an area designated by the United States Environmental Protection Agency, Region 9, as a Sole Source Aquifer?

☒ No. The project is not within the boundaries of a sole source aquifer.

☐ Yes. Contact USEPA, Region 9 staff to consult, and identify the sole source aquifer (e.g., Santa Margarita Aquifer, Scott's Valley, the Fresno County Aquifer, the Campo/Cottonwood Creek Aquifer or the Ocotillo-Coyote Wells Aquifer) that will be impacted:

13. <u>Environmental Justice:</u>
Does the project involve an activity that is likely to be of particular interest to or have particular impact upon minority, low-income, or indigenous populations, or tribes?

☒No. Selecting "No" means that this action is not likely to be of any particular interest to or have an impact on these populations or tribes. Explain.

The project involves the rehabilitation and replacement of wastewater pipelines within the City of South Pasadena, which would improve the existing wastewater infrastructure in this area. The project is not expected to be of particular interest or have particular impact upon minority, low-income, or indigenous populations, or tribes. Furthermore, Median Household Income (MHI) in the City of South Pasadena is $82,340 which is not considered low-income, and the City of South Pasadena is comprised mostly of non-minority populations as shown by the following 2000 Census race/ethnicity data for the City of South Pasadena:

White	60.32%
Black	3.40%
Native American, Eskimo, Aleut	0.42%
Asian	26.58%
Native Hawaiian/Other Pacific Islander	5.17%
2 races or more	4.47%
Hispanic/Latino origin	16.07%

☐Yes. If you answer yes, please check at least one of the boxes and provide a brief explanation below:

☐ The project is likely to impact the health of these populations.
☐ The project is likely to impact the environmental conditions of these populations.
☐ The project is likely to present an opportunity to address an existing disproportionate impact of these populations.
☐ The project is likely to result in the collection of information or data that could be used to assess potential impacts on the health or environmental conditions of these populations.
☐ The project is likely to affect the availability of information to these populations.
☐ Other reasons, describe: _____

Briefly explain the answer:

_____
_____
_____
_____
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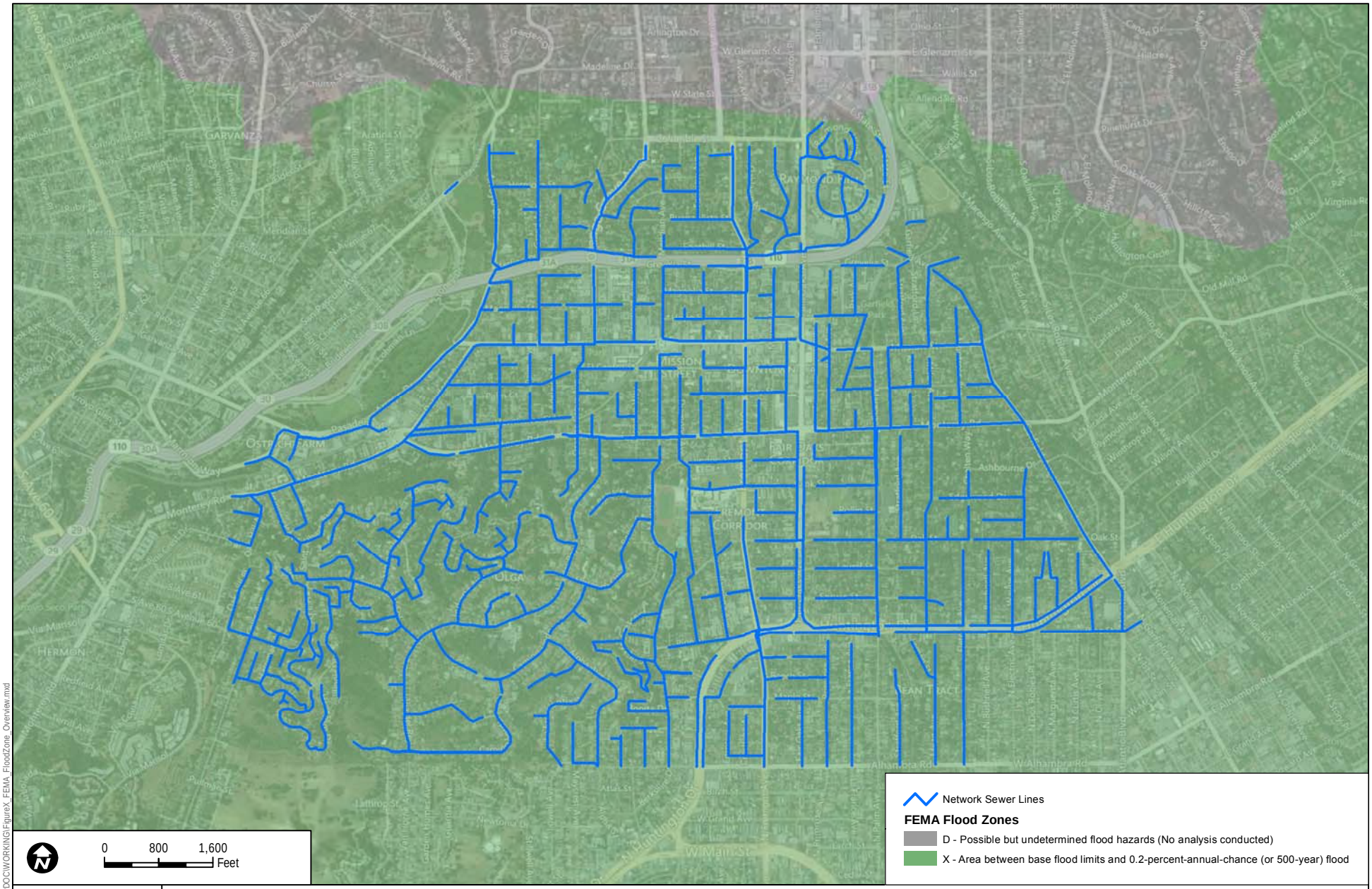
_____



DUDEK

7532-2

SOURCE: Bing; City of Pasadena 2012; FEMA 2011

Overview FEMA Flood Zones

CITY OF SOUTH PASADENA SEWER REHABILITATION AND REPLACEMENT PROJECT

DRAFT

Path: Z:\Projects\7532\02\MAPDOC\WORKING\FigureX_FEMA_FloodZone_Overview.mxd

APPENDIX G

Native American Heritage Commission Consultation

DUDEK

MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 760.942.5147 T 800.450.1818 F 760.632.0164

May 29, 2013

Dave Singleton
Native American Heritage Commission
915 Capitol Mall, Room 364
Sacramento, CA 95814

Subject: ***NAHC Sacred Lands Records Search Request for the Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California***

Dear Mr. Singleton,

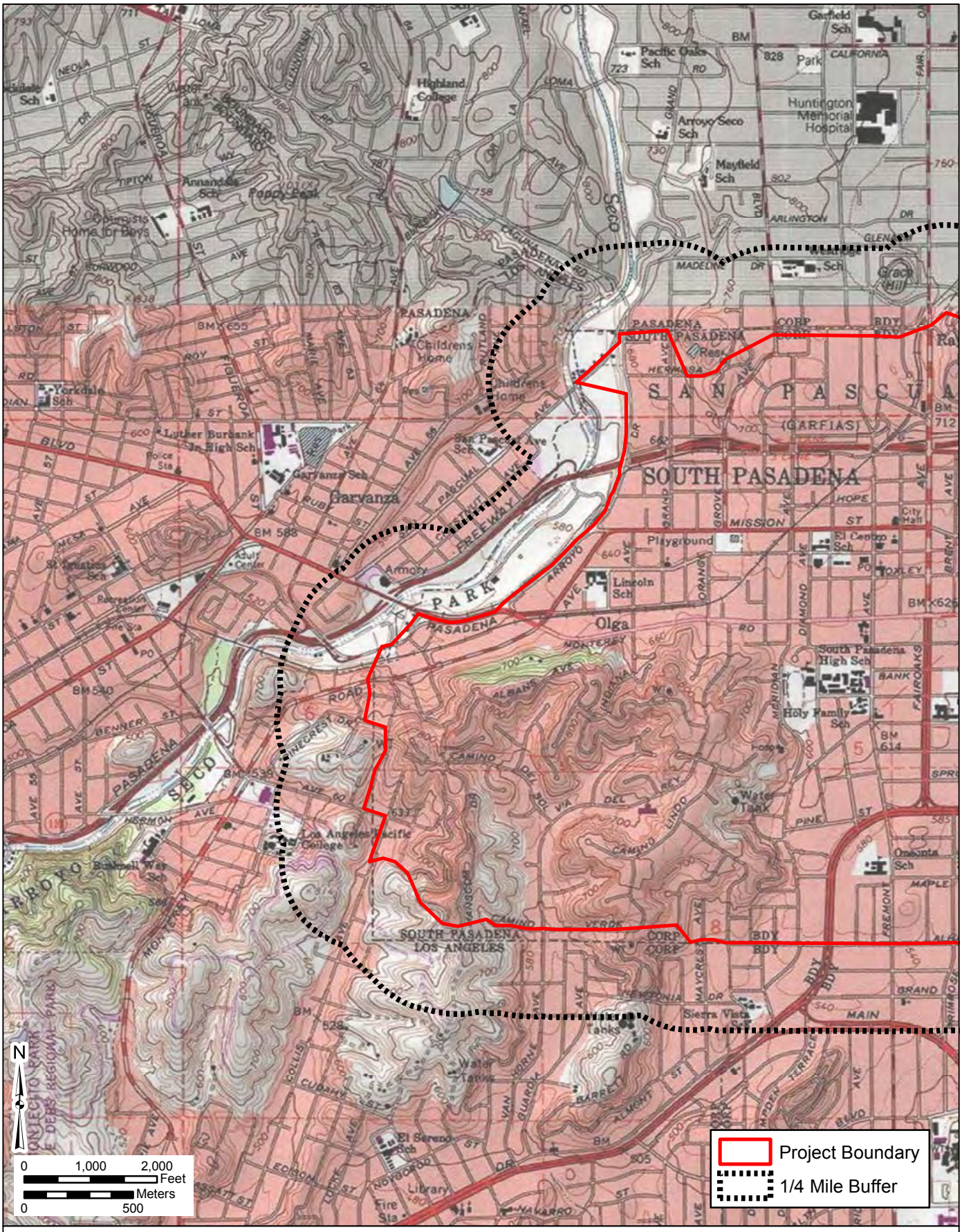
The City of South Pasadena is proposing improvements to the wastewater pipeline system located in the City of South Pasadena (the City). Pipeline segments which will be either replaced or rehabilitated are located throughout the City. The City is located within the U.S. Geological Survey (USGS) 7.5-minute Los Angeles and Pasadena quadrangles (USGS 1994) in Township 1N / Range 12 W / Section 31, 32, 33 and Township 1S / Range 12 W / Sections 3, 4, 5, 6, 7, 8, 9, 10. Dudek is requesting an NAHC search for any sacred sites, traditional cultural properties, or other Native American cultural resources that may fall within a one-quarter mile buffer of the proposed project location (Figures 1 and 2). Please provide contact information for any Native American tribal representatives that should be consulted regarding these project activities. This information can be faxed to 760-632-0164.

If you have any questions about this investigation, please contact me directly by email or phone.

Regards,

Brad Comeau, M.Sc., RPA
Archaeologist
DUDEK
Phone: (760) 479-4211
Cell: (760) 213-0581
Email: bcomeau@dudek.com

Attachments:
Figure 1. Project location map 1.
Figure 2. Project location map 2.



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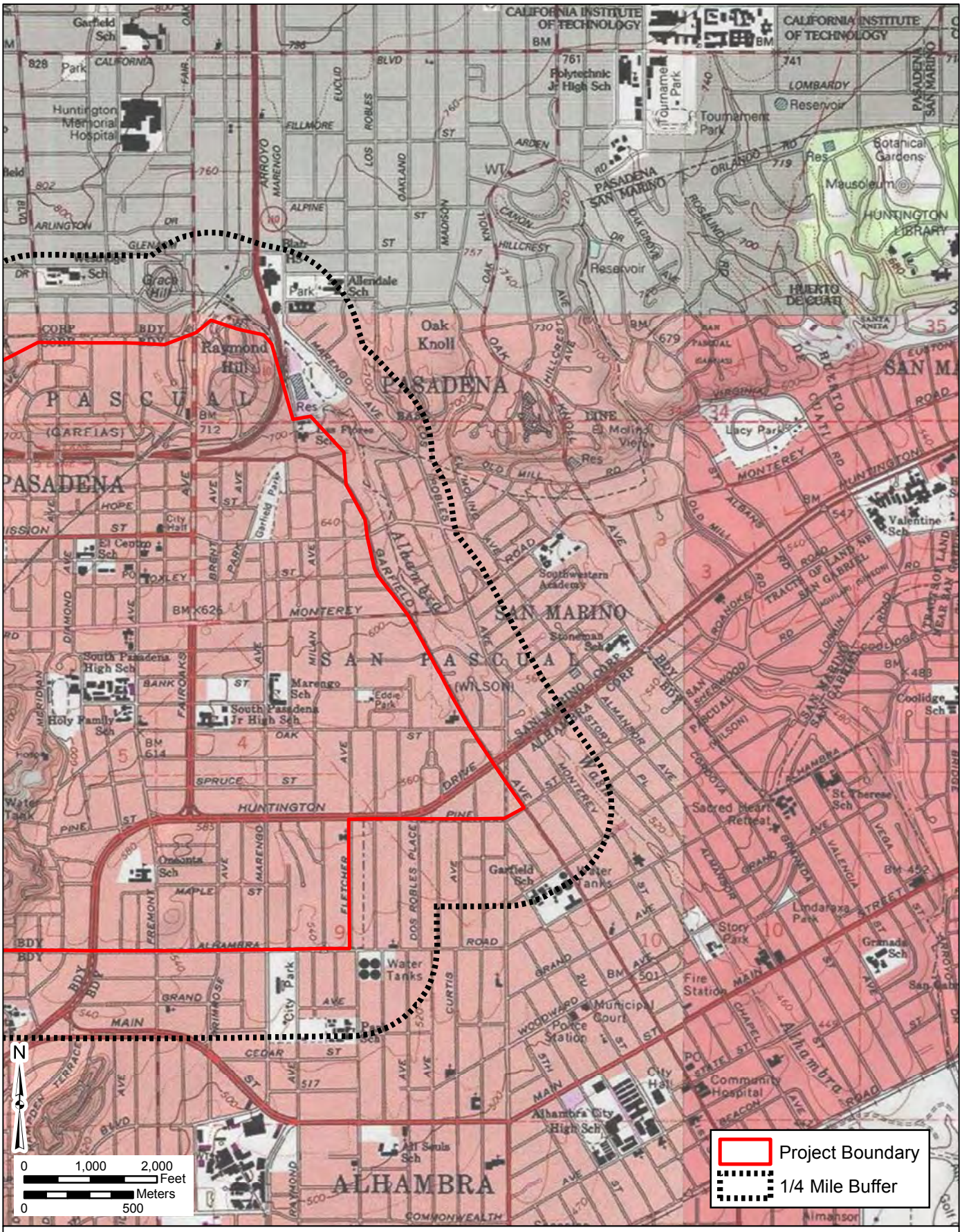
Archaeological Records Search Request

City of South Pasadena Sewer Rehabilitation and Replacement Project



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Archaeological Records Search Request

City of South Pasadena Sewer Rehabilitation and Replacement Project

STATE OF CALIFORNIA Edmund G. Brown, Jr., Governor

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Boulevard, Suite 100
West Sacramento, CA 95691
(916) 373-3715
Fax (916) 373-5471
www.nahc.ca.gov
e-mail: ds_nahc@pacbell.net

May 30, 2013

Mr. Brad Comeau, M.Sc., RPA
DUDEK
605 Third Street
Encinitas, CA 92024

Sent by FAX to: 760-632-0164
No. of Pages: 4

Re: Request for Sacred Lands File Search and Native American Contacts list for the **"Wastewater Pipeline Improvement Project;"** located in the City of South Pasadena; Los Angeles County, California

Dear Mr. Comeau:

A record search of the NAHC Sacred Lands File failed to indicate the presence of Native American traditional cultural place(s) in the project site location submitted, based on the USGS coordinates, the Area of Potential Effect (APE). Other data sources for Native American sacred places/sites should also be contacted. A Native American tribe of individual may be the only sources of presence of traditional cultural places or sites.

In the 1985 Appellate Court decision (170 Cal App 3rd 604), the Court held that the NAHC has jurisdiction and special expertise, as a state agency, over affected Native American resources impacted by proposed projects, including archaeological places of religious significance to Native Americans, and to Native American burial sites.

Attached is a list of Native American tribes, individuals/organization who may have knowledge of cultural resources in or near the project area. As part of the consultation process, the NAHC recommends that local governments and project developers contact the tribal governments and individuals to determine if any cultural places might be impacted by the proposed action. If a response is not received in two weeks of notification the NAHC requests that a follow telephone call be made to ensure that the project information has been received.

If you have any questions or need additional information, please contact me at (916) 373-3715.

Sincerely,

Dave Singleton
Program Analyst

Attachment

Native American Contacts
Los Angeles County
May 30, 2013

LA City/County Native American Indian Comm
Ron Andrade, Director
3175 West 6th St, Rm. 403
Los Angeles , CA 90020
randrade@css.lacounty.gov
(213) 351-5324
(213) 386-3995 FAX

Gabrielino Tongva Nation
Sam Dunlap, Cultural Resources Director
P.O. Box 86908 Gabrielino Tongva
Los Angeles , CA 90086
samdunlap@earthlink.net

(909) 262-9351 - cell

Ti'At Society/Inter-Tribal Council of Pimu
Cindi M. Alvitre, Chairwoman-Manisar
3094 Mace Avenue, Apt. B Gabrielino
Costa Mesa, , CA 92626
calvitre@yahoo.com
(714) 504-2468 Cell

Gabrielino Tongva Indians of California Tribal Council
Robert F. Dorame, Tribal Chair/Cultural Resources
P.O. Box 490 Gabrielino Tongva
Bellflower , CA 90707
gtongva@verizon.net
562-761-6417 - voice
562-761-6417- fax

Tongva Ancestral Territorial Tribal Nation
John Tommy Rosas, Tribal Admin.
Private Address Gabrielino Tongva
,
tattnlaw@gmail.com
310-570-6567

Gabrielino-Tongva Tribe
Bernie Acuna, Co-Chairperson
P.O. Box 180 Gabrielino
Bonsall , CA 92003
(619) 294-6660-work
(310) 428-5690 - cell
(760) 636-0854- FAX
bacuna1@gabrielinotribe.org

Gabrieleno/Tongva San Gabriel Band of Mission
Anthony Morales, Chairperson
PO Box 693 Gabrielino Tongva
San Gabriel , CA 91778
GTTribalcouncil@aol.com
(626) 286-1632
(626) 286-1758 - Home
(626) 286-1262 -FAX

Gabrielino-Tongva Tribe
Linda Candelaria, Co-Chairperson
P.O. Box 180 Gabrielino
Bonsall , CA 92003
palmsprings9@yahoo.com
626-676-1184- cell
(760) 636-0854 - FAX

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of the statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Wastwater Pipeline Improvement Project; located in the City of South Pasadena; Los Angeles County, California for which a Sacred Lands File search and Native American Contacts list were requested.

Native American Contacts
Los Angeles County
May 30, 2013

Gabrieleno Band of Mission Indians
Andrew Salas, Chairperson
P.O. Box 393 Gabrielino
Covina , CA 91723
(626) 926-4131
gabrielenoindians@yahoo.com

Gabrielino-Tongva Tribe
Conrad Acuna,
P.O. Box 180 Gabrielino
Bonsall , CA 92003

760-636-0854 - FAX

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of the statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

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DUDEK

MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 760.942.5147 T 800.450.1818 F 760.632.0164

May 30, 2013

Mr. Bernie Acuna,
Gabrielino-Tongva Tribe
1875 Century Pk East #1500
Los Angeles, CA 90067

Subject: Consultation Request for the Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California

Dear Mr. Acuna,

The City of South Pasadena is proposing improvements to the wastewater pipeline system located in the City of South Pasadena (the City). Pipeline segments which will be either replaced or rehabilitated are located throughout the City. The City is located within the U.S. Geological Survey (USGS) 7.5-minute Los Angeles and Pasadena quadrangles (USGS 1994) in Township 1N / Range 12 W / Section 31, 32, 33 and Township 1S / Range 12 W / Sections 3, 4, 5, 6, 7, 8, 9, 10.

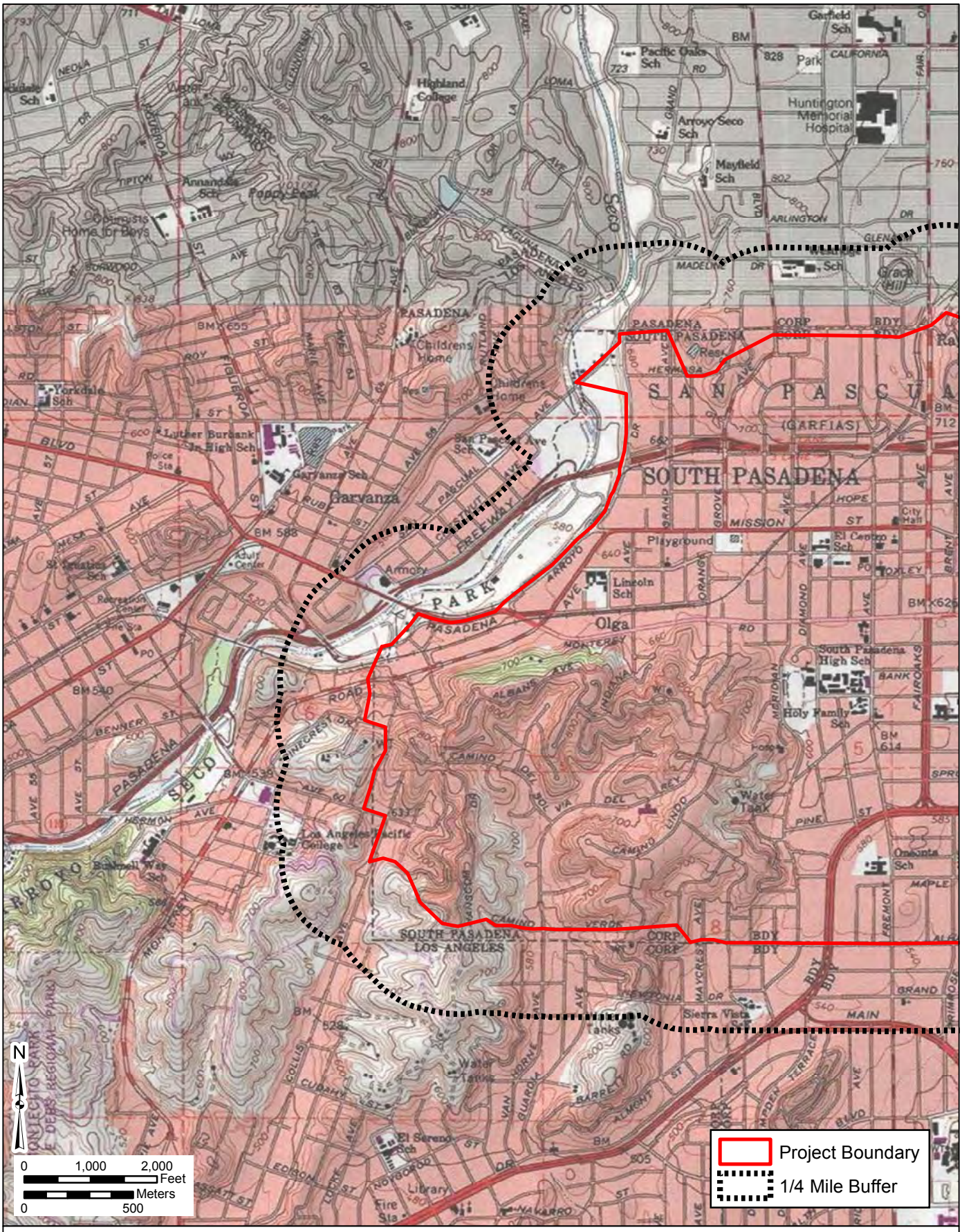
The Native American Heritage Commission conducted a Sacred Lands file search. No Native American cultural resources were identified within the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Brad Comeau, M.Sc., RPA
Archaeologist
Phone: (760) 479-4211
Email: bcomeau@dudek.com

Attachments:
Figure 1. Project location map 1
Figure 2. Project location map 2.



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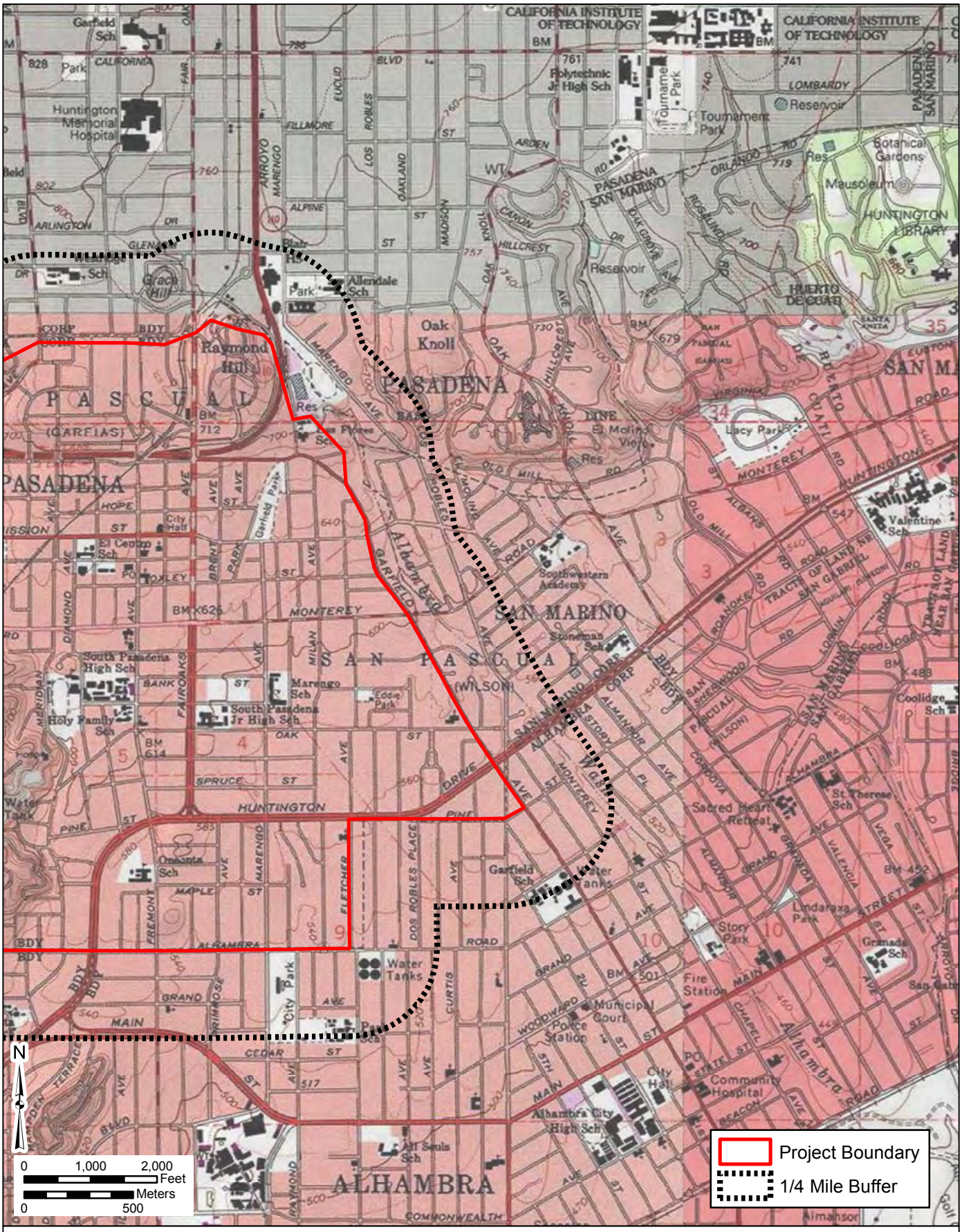
Archaeological Records Search Request

City of South Pasadena Sewer Rehabilitation and Replacement Project



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Archaeological Records Search Request

City of South Pasadena Sewer Rehabilitation and Replacement Project

DUDEK

MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 760.942.5147 T 800.450.1818 F 760.632.0164

May 30, 2013

Mr. Conrad Acuna,
Gabrielino-Tongva Tribe
P.O. Box 180
Bonsall, CA 92003

Subject: Consultation Request for the Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California

Dear Mr. Acuna,

The City of South Pasadena is proposing improvements to the wastewater pipeline system located in the City of South Pasadena (the City). Pipeline segments which will be either replaced or rehabilitated are located throughout the City. The City is located within the U.S. Geological Survey (USGS) 7.5-minute Los Angeles and Pasadena quadrangles (USGS 1994) in Township 1N / Range 12 W / Section 31, 32, 33 and Township 1S / Range 12 W / Sections 3, 4, 5, 6, 7, 8, 9, 10.

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If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Brad Comeau, M.Sc., RPA
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Phone: (760) 479-4211
Email: bcomeau@dudek.com

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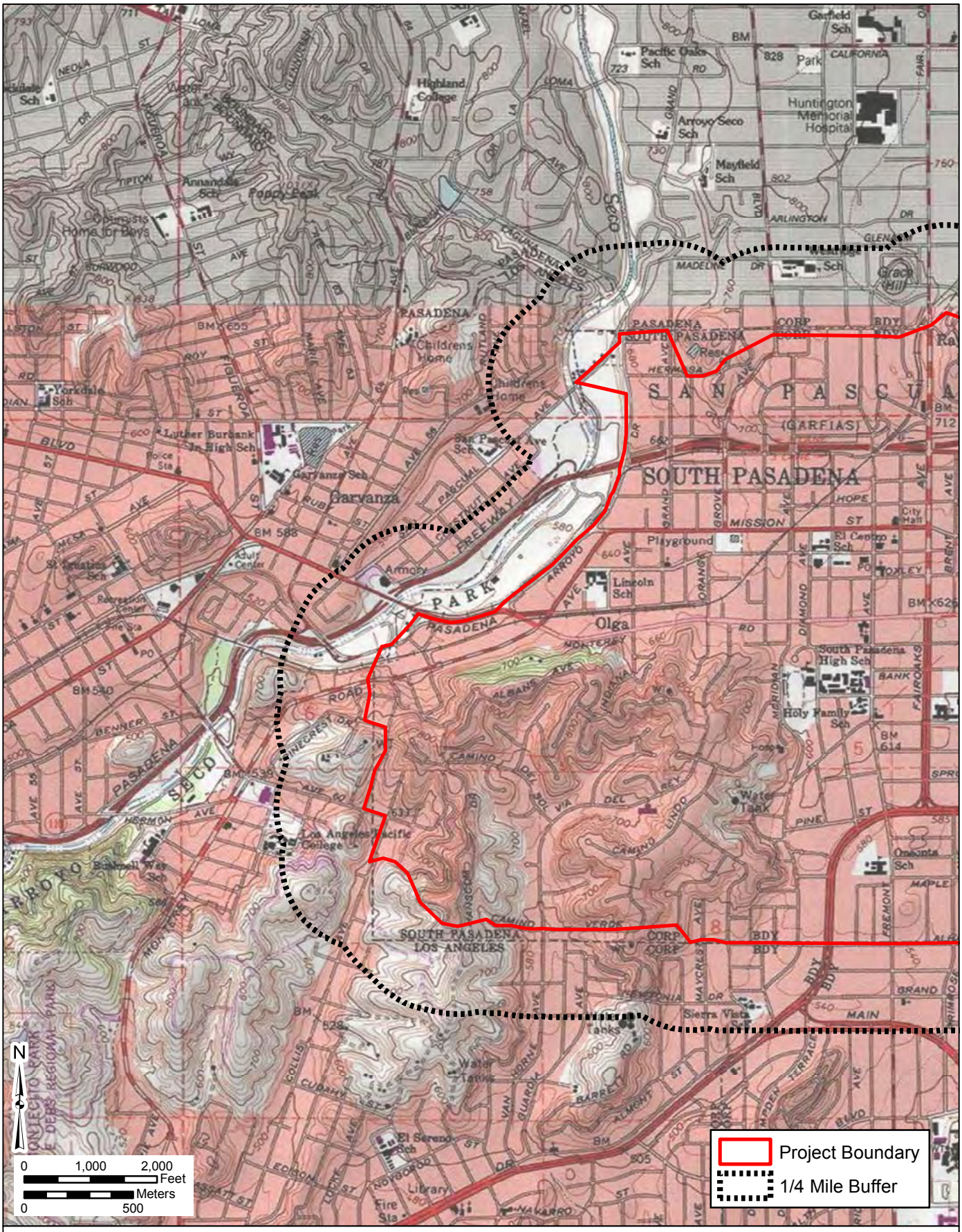

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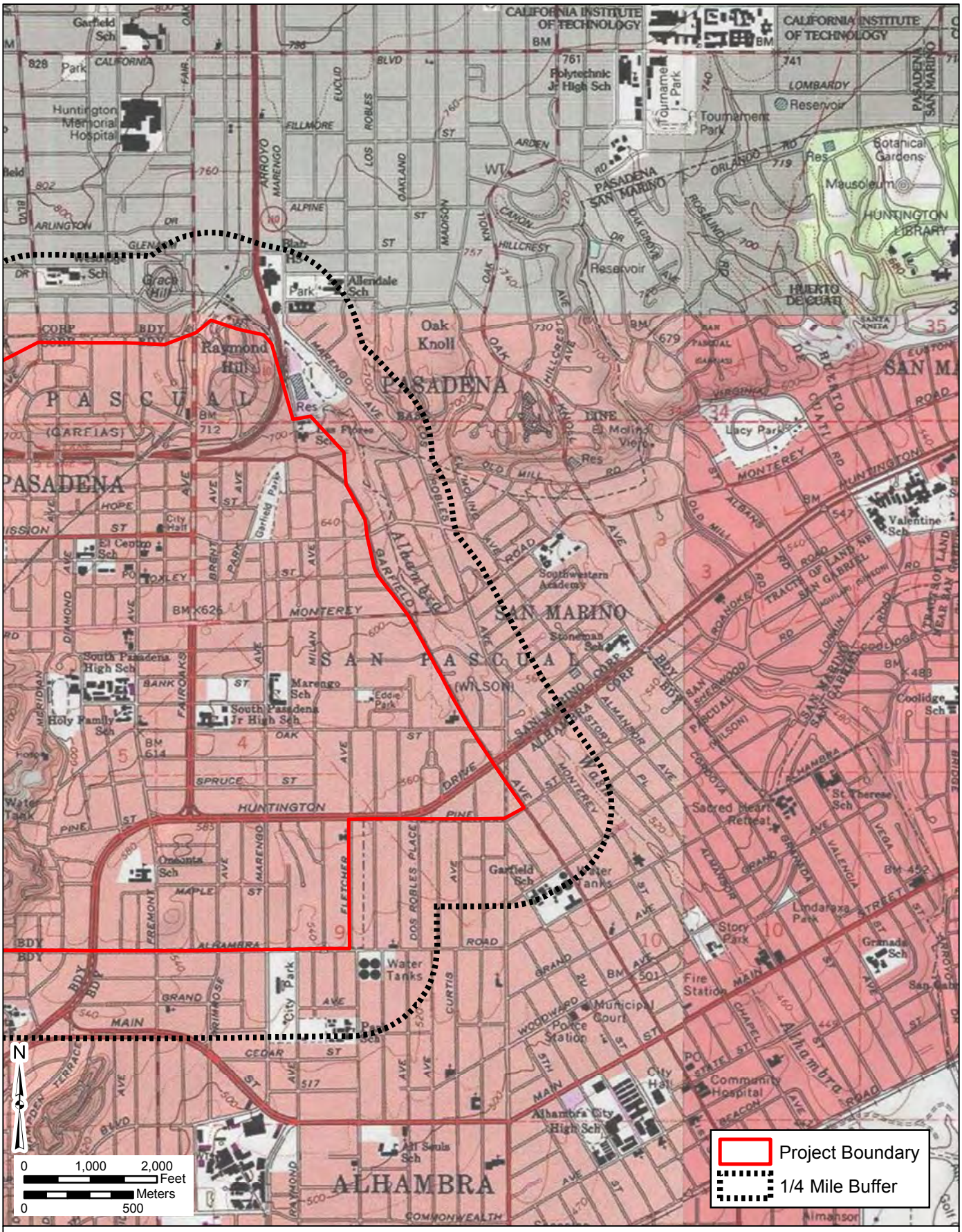
City of South Pasadena Sewer Rehabilitation and Replacement Project



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Archaeological Records Search Request

City of South Pasadena Sewer Rehabilitation and Replacement Project

DUDEK

MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 760.942.5147 T 800.450.1818 F 760.632.0164

May 30, 2013

Ms. Cindi M. Alvitre, Chairwoman-Manisar
Ti'At Society/Inter-Tribal Council of Pimu
3094 Mace Avenue, Apt. B
Costa Mesa, CA 92626

Subject: Consultation Request for the Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California

Dear Ms. Alvitre,

The City of South Pasadena is proposing improvements to the wastewater pipeline system located in the City of South Pasadena (the City). Pipeline segments which will be either replaced or rehabilitated are located throughout the City. The City is located within the U.S. Geological Survey (USGS) 7.5-minute Los Angeles and Pasadena quadrangles (USGS 1994) in Township 1N / Range 12 W / Section 31, 32, 33 and Township 1S / Range 12 W / Sections 3, 4, 5, 6, 7, 8, 9, 10.

The Native American Heritage Commission conducted a Sacred Lands file search. No Native American cultural resources were identified within the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

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Email: bcomeau@dudek.com

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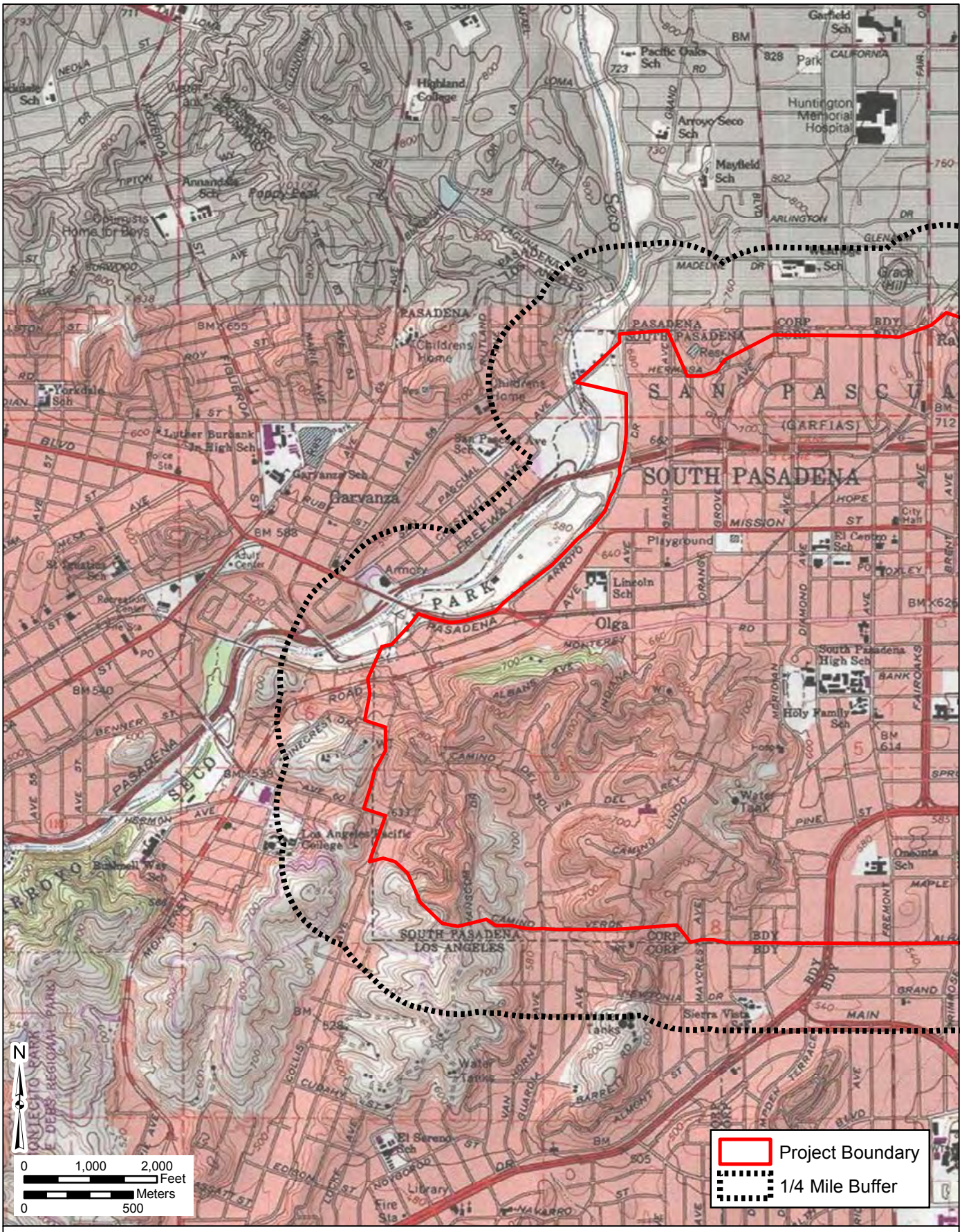

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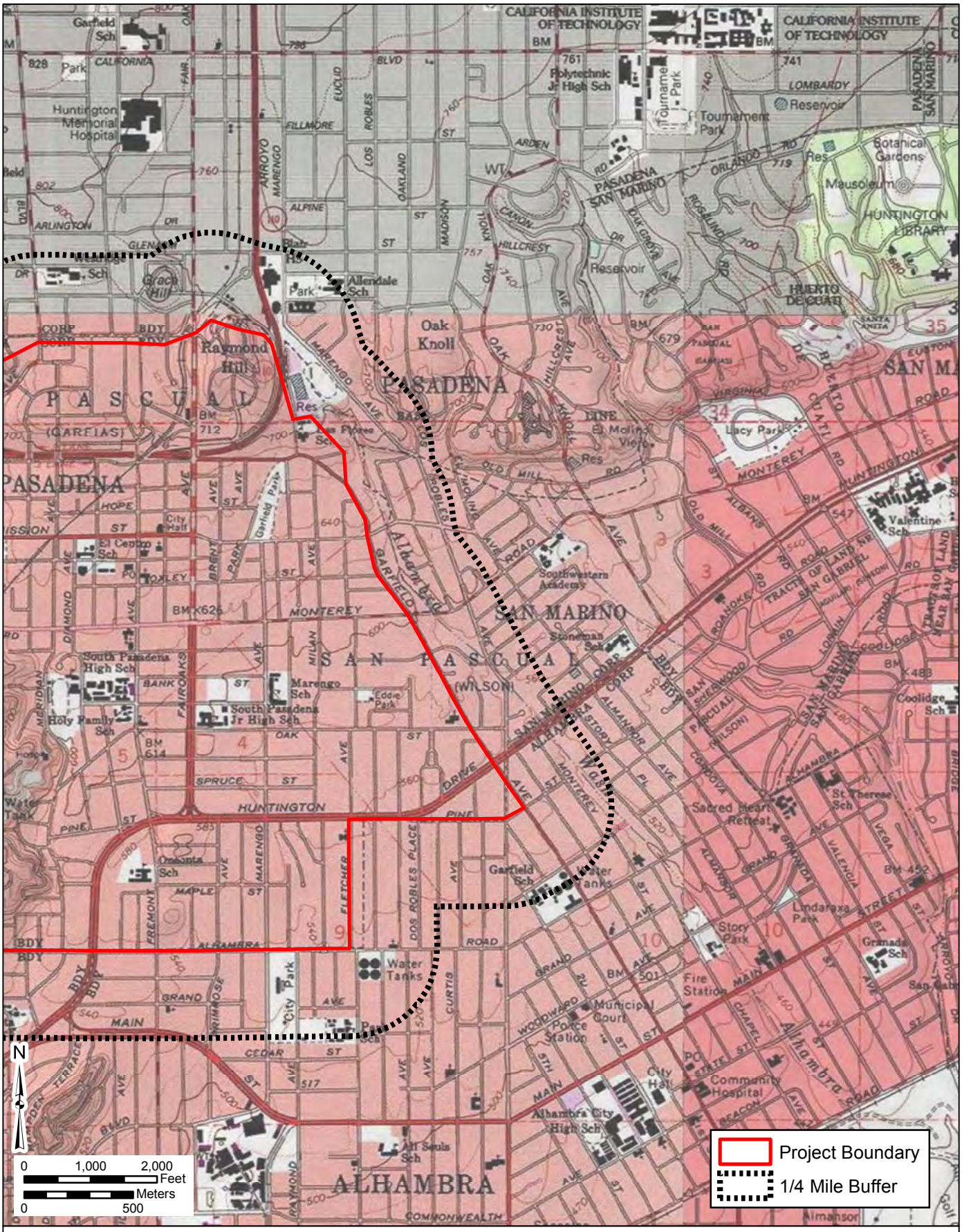
Archaeological Records Search Request

City of South Pasadena Sewer Rehabilitation and Replacement Project



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DUDEK

MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 760.942.5147 T 800.450.1818 F 760.632.0164

May 30, 2013

Mr. Ron Andrade, Director
LA City / County Native American Indian Commission
3175 West 6th St., Rm. 403
Los Angeles, CA 90020

Subject: Consultation Request for the Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California

Dear Mr. Andrade,

The City of South Pasadena is proposing improvements to the wastewater pipeline system located in the City of South Pasadena (the City). Pipeline segments which will be either replaced or rehabilitated are located throughout the City. The City is located within the U.S. Geological Survey (USGS) 7.5-minute Los Angeles and Pasadena quadrangles (USGS 1994) in Township 1N / Range 12 W / Section 31, 32, 33 and Township 1S / Range 12 W / Sections 3, 4, 5, 6, 7, 8, 9, 10.

The Native American Heritage Commission conducted a Sacred Lands file search. No Native American cultural resources were identified within the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

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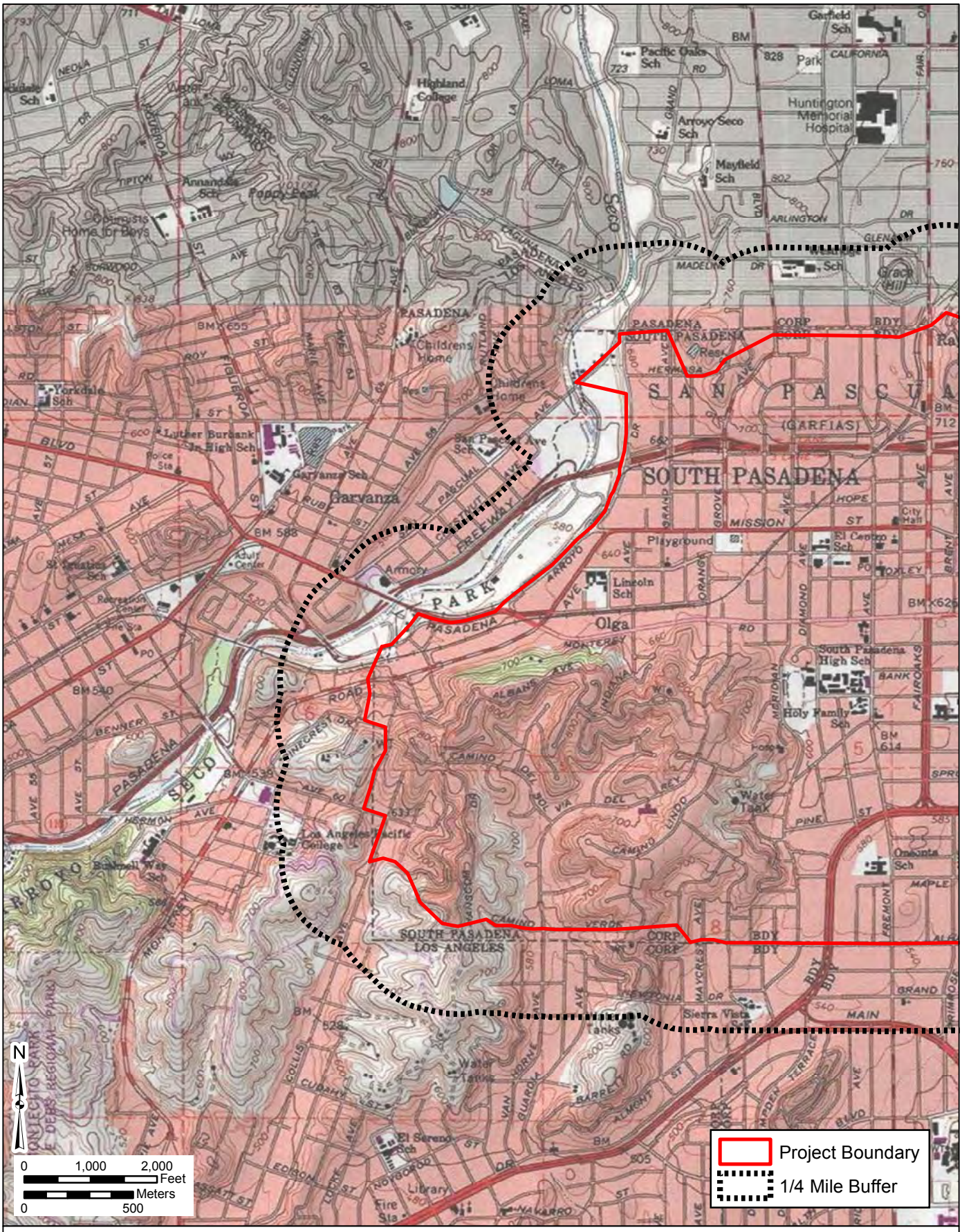

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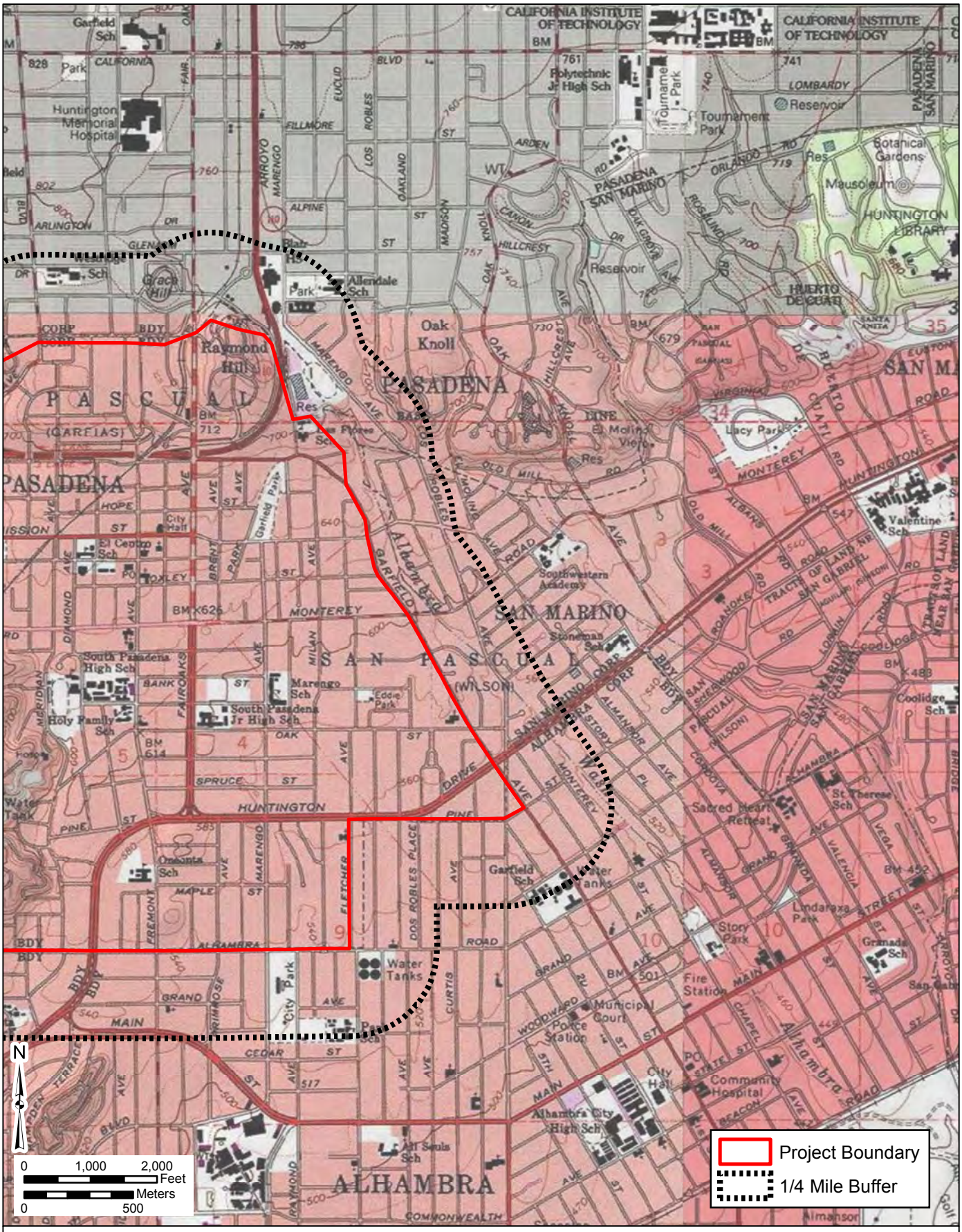
City of South Pasadena Sewer Rehabilitation and Replacement Project



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City of South Pasadena Sewer Rehabilitation and Replacement Project

DUDEK

MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 760.942.5147 T 800.450.1818 F 760.632.0164

May 30, 2013

Ms. Linda Candelaria, Chairwoman
Gabrielino-Tongva Tribe
1875 Century Pk East #1500
Los Angeles, CA 90067

Subject: Consultation Request for the Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California

Dear Ms. Candelaria,

The City of South Pasadena is proposing improvements to the wastewater pipeline system located in the City of South Pasadena (the City). Pipeline segments which will be either replaced or rehabilitated are located throughout the City. The City is located within the U.S. Geological Survey (USGS) 7.5-minute Los Angeles and Pasadena quadrangles (USGS 1994) in Township 1N / Range 12 W / Section 31, 32, 33 and Township 1S / Range 12 W / Sections 3, 4, 5, 6, 7, 8, 9, 10.

The Native American Heritage Commission conducted a Sacred Lands file search. No Native American cultural resources were identified within the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

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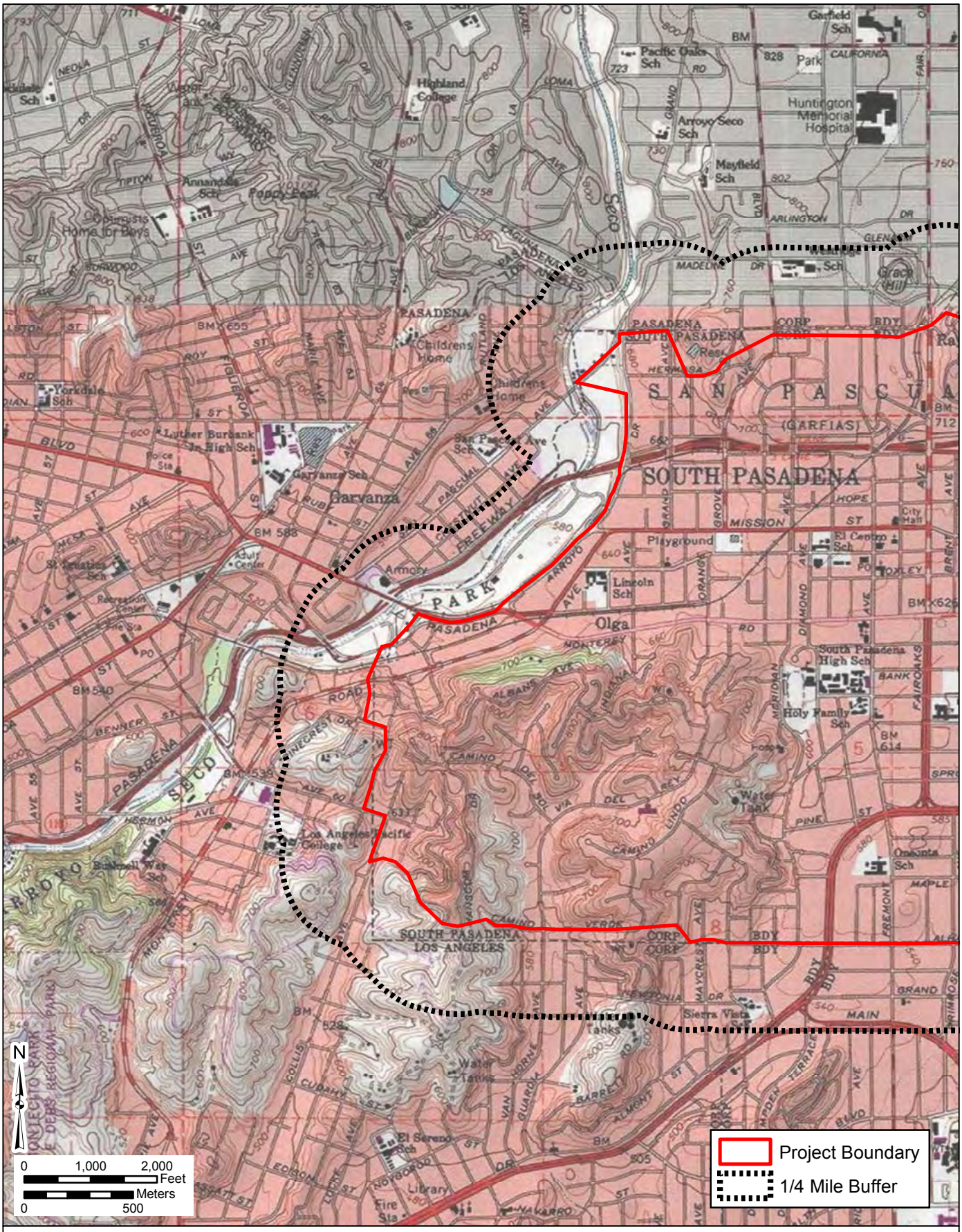

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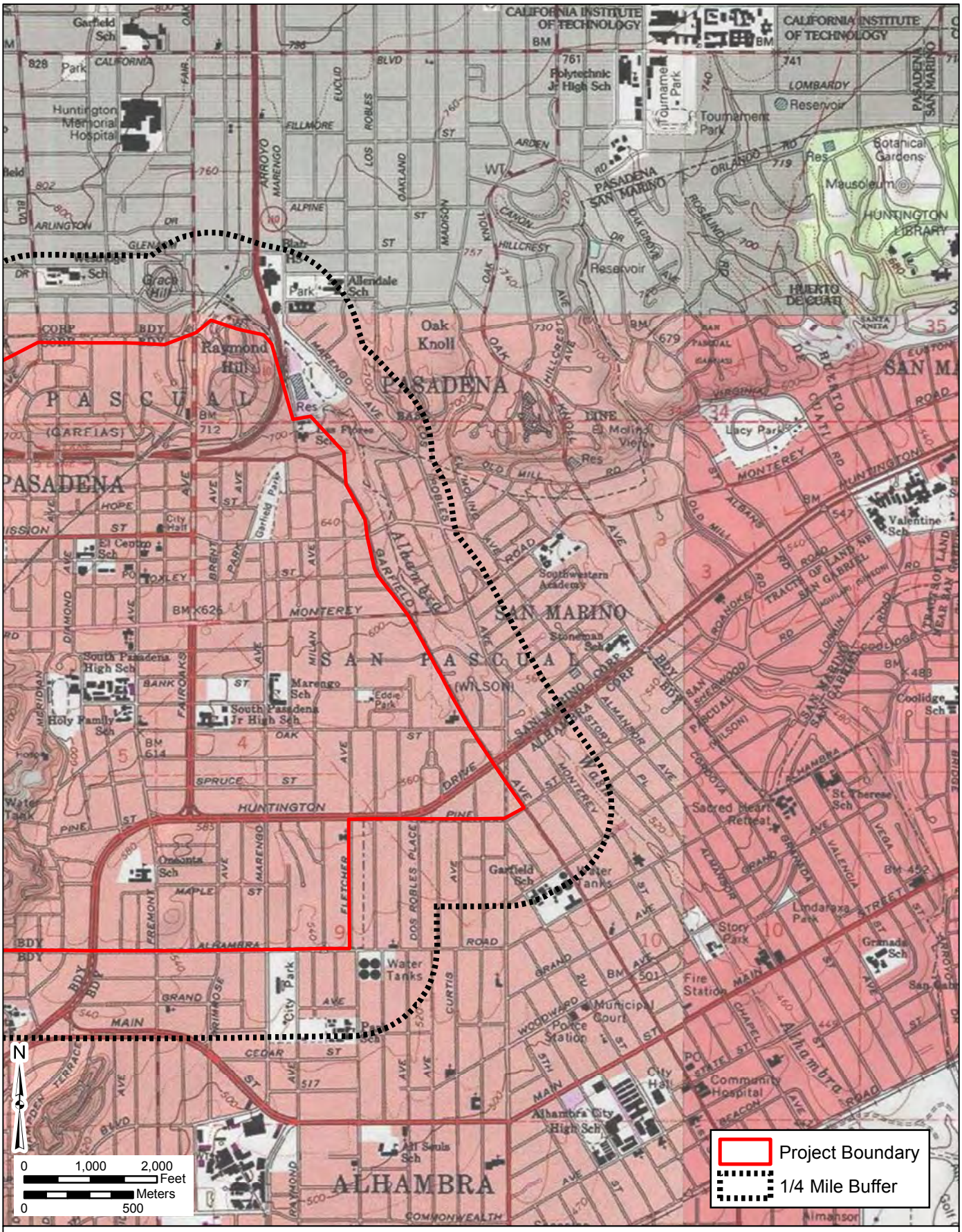

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DUDEK

MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 760.942.5147 T 800.450.1818 F 760.632.0164

May 30, 2013

Mr. Robert F. Dorame, Tribal Chair/Cultural Resources
Gabrieleno Tongva Indians of California Tribal Council
P.O. Box 490
Bellflower, CA 90707

Subject: Consultation Request for the Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California

Dear Mr. Dorame,

The City of South Pasadena is proposing improvements to the wastewater pipeline system located in the City of South Pasadena (the City). Pipeline segments which will be either replaced or rehabilitated are located throughout the City. The City is located within the U.S. Geological Survey (USGS) 7.5-minute Los Angeles and Pasadena quadrangles (USGS 1994) in Township 1N / Range 12 W / Section 31, 32, 33 and Township 1S / Range 12 W / Sections 3, 4, 5, 6, 7, 8, 9, 10.

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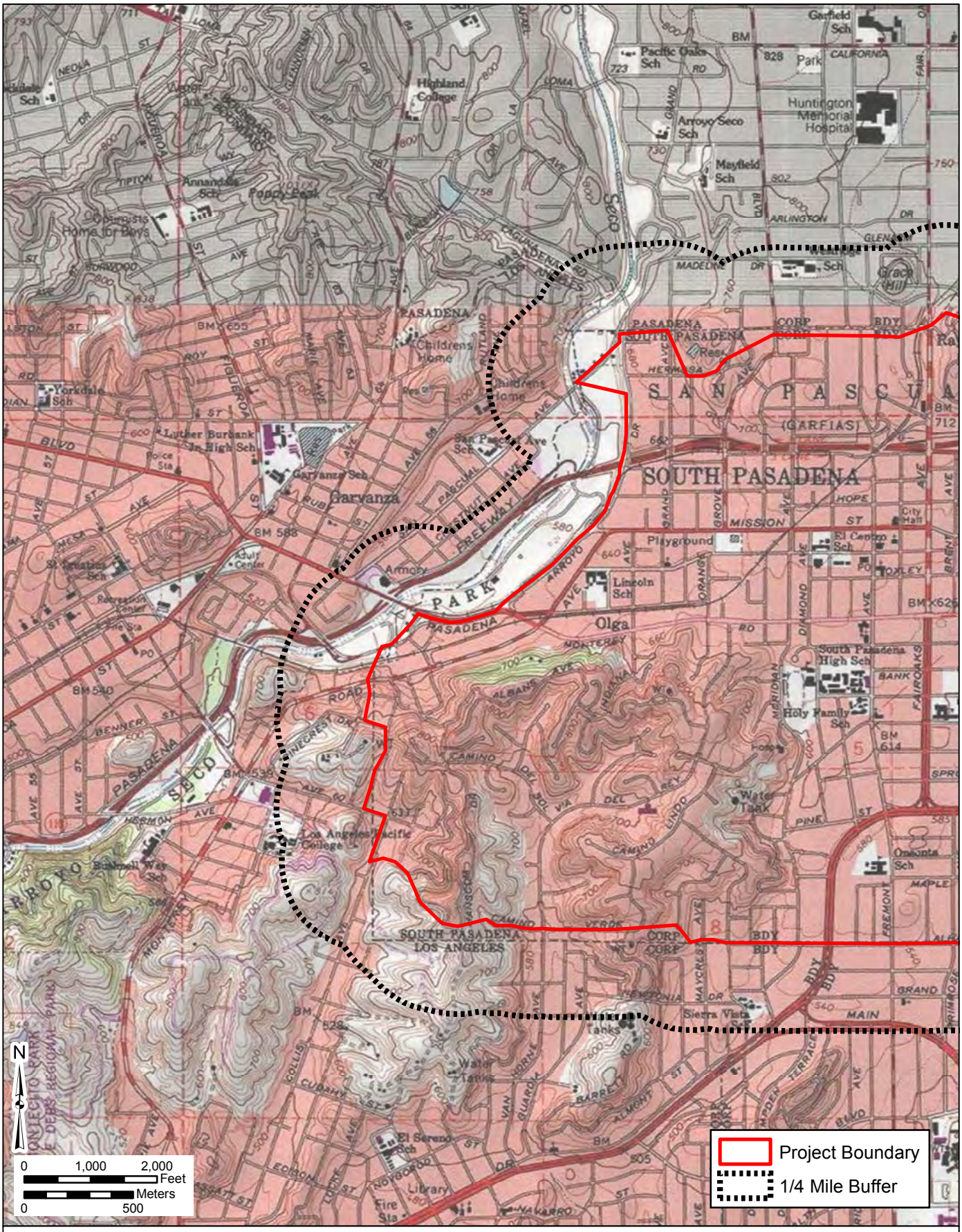

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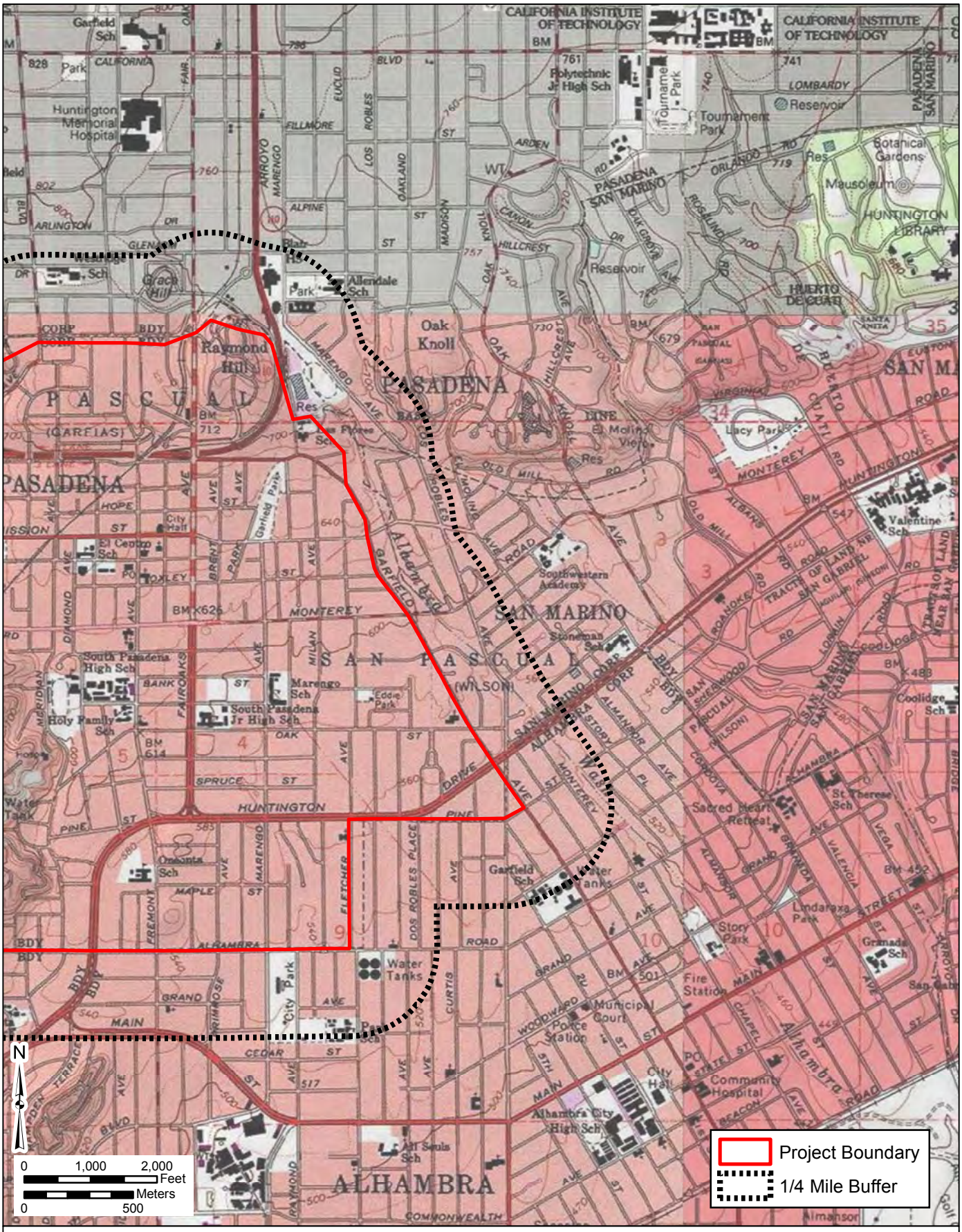
City of South Pasadena Sewer Rehabilitation and Replacement Project



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DUDEK

MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 760.942.5147 T 800.450.1818 F 760.632.0164

May 30, 2013

Mr. Sam Dunlap, Chairperson
Gabrieleno Tongva Nation
P.O. Box 86908
Los Angeles, CA 90086

Subject: Consultation Request for the Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California

Dear Mr. Dunlap,

The City of South Pasadena is proposing improvements to the wastewater pipeline system located in the City of South Pasadena (the City). Pipeline segments which will be either replaced or rehabilitated are located throughout the City. The City is located within the U.S. Geological Survey (USGS) 7.5-minute Los Angeles and Pasadena quadrangles (USGS 1994) in Township 1N / Range 12 W / Section 31, 32, 33 and Township 1S / Range 12 W / Sections 3, 4, 5, 6, 7, 8, 9, 10.

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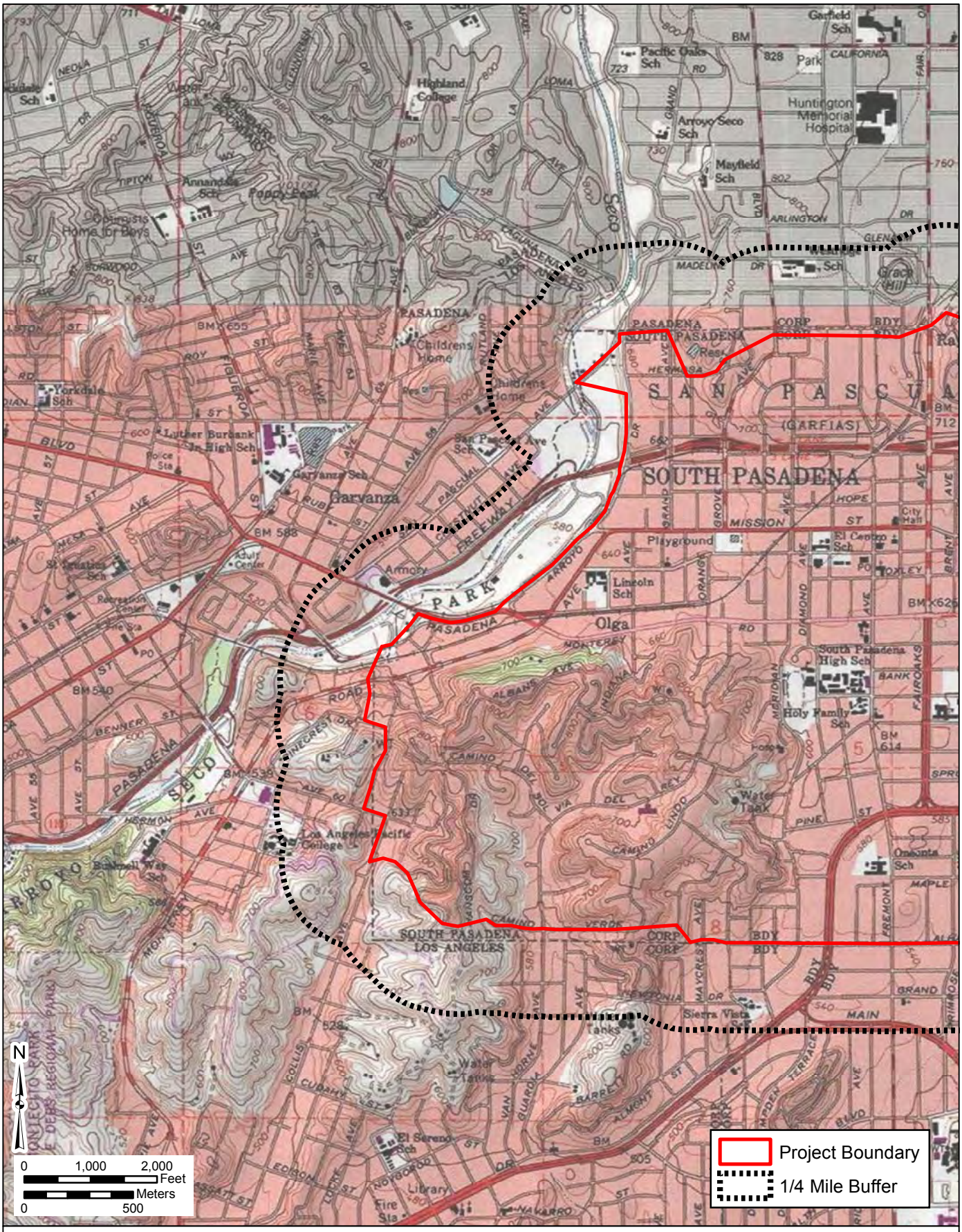
Brad Comeau, M.Sc., RPA
Archaeologist
Phone: (760) 479-4211
Email: bcomeau@dudek.com

Attachments:
Figure 1. Project location map 1
Figure 2. Project location map 2.



SOURCE: USGS Topo 7.5 Minute Series - Los Angeles and Pasadena Quadrangle
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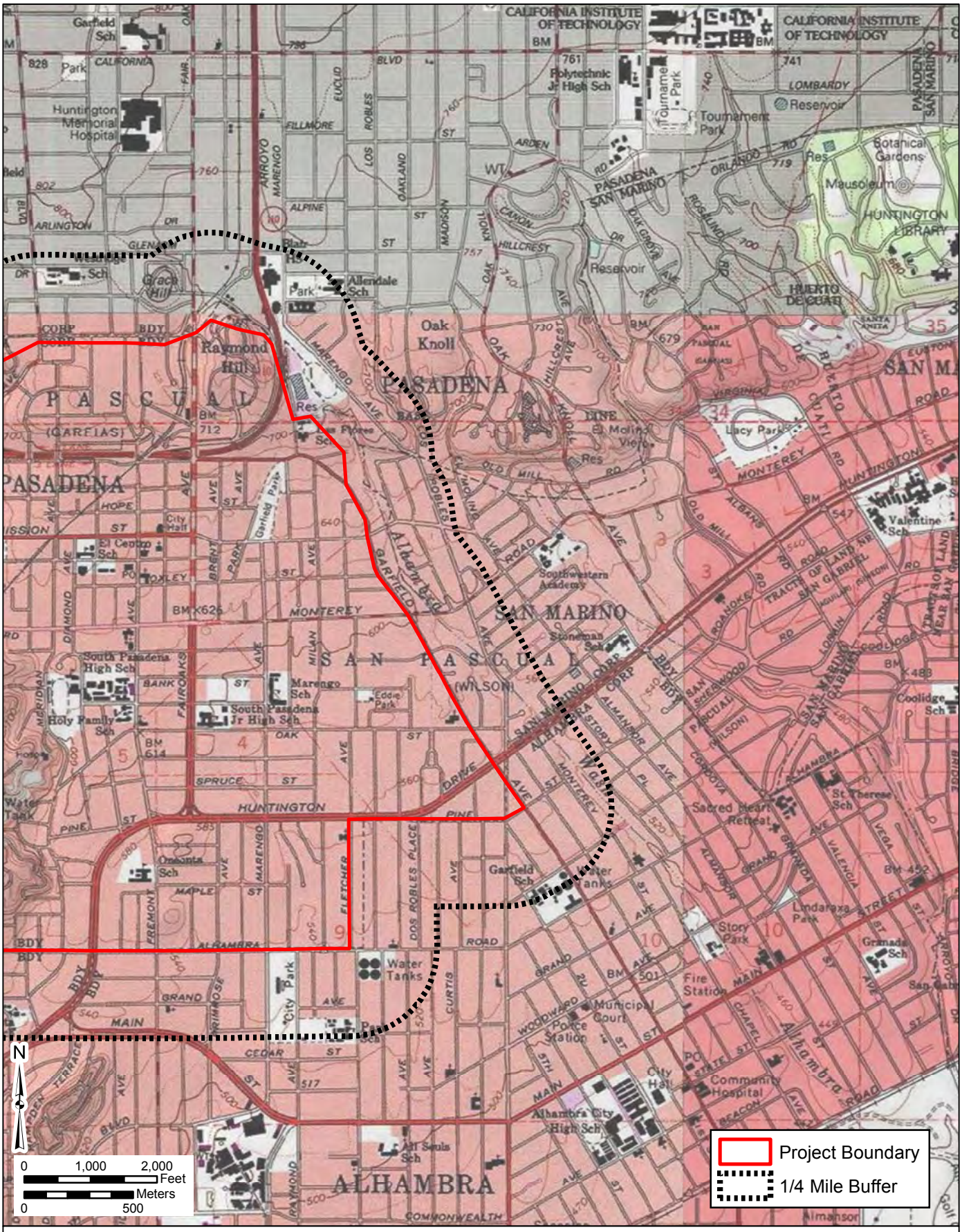
Archaeological Records Search Request

City of South Pasadena Sewer Rehabilitation and Replacement Project



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Archaeological Records Search Request

City of South Pasadena Sewer Rehabilitation and Replacement Project

DUDEK

MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 760.942.5147 T 800.450.1818 F 760.632.0164

May 30, 2013

Mr. Anthony Morales, Chairperson
Gabrieleno/Tongva San Gabriel Band of Mission Indians
P.O. Box 693
San Gabriel, CA 91778

Subject: Consultation Request for the Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California

Dear Mr. Morales,

The City of South Pasadena is proposing improvements to the wastewater pipeline system located in the City of South Pasadena (the City). Pipeline segments which will be either replaced or rehabilitated are located throughout the City. The City is located within the U.S. Geological Survey (USGS) 7.5-minute Los Angeles and Pasadena quadrangles (USGS 1994) in Township 1N / Range 12 W / Section 31, 32, 33 and Township 1S / Range 12 W / Sections 3, 4, 5, 6, 7, 8, 9, 10.

The Native American Heritage Commission conducted a Sacred Lands file search. No Native American cultural resources were identified within the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

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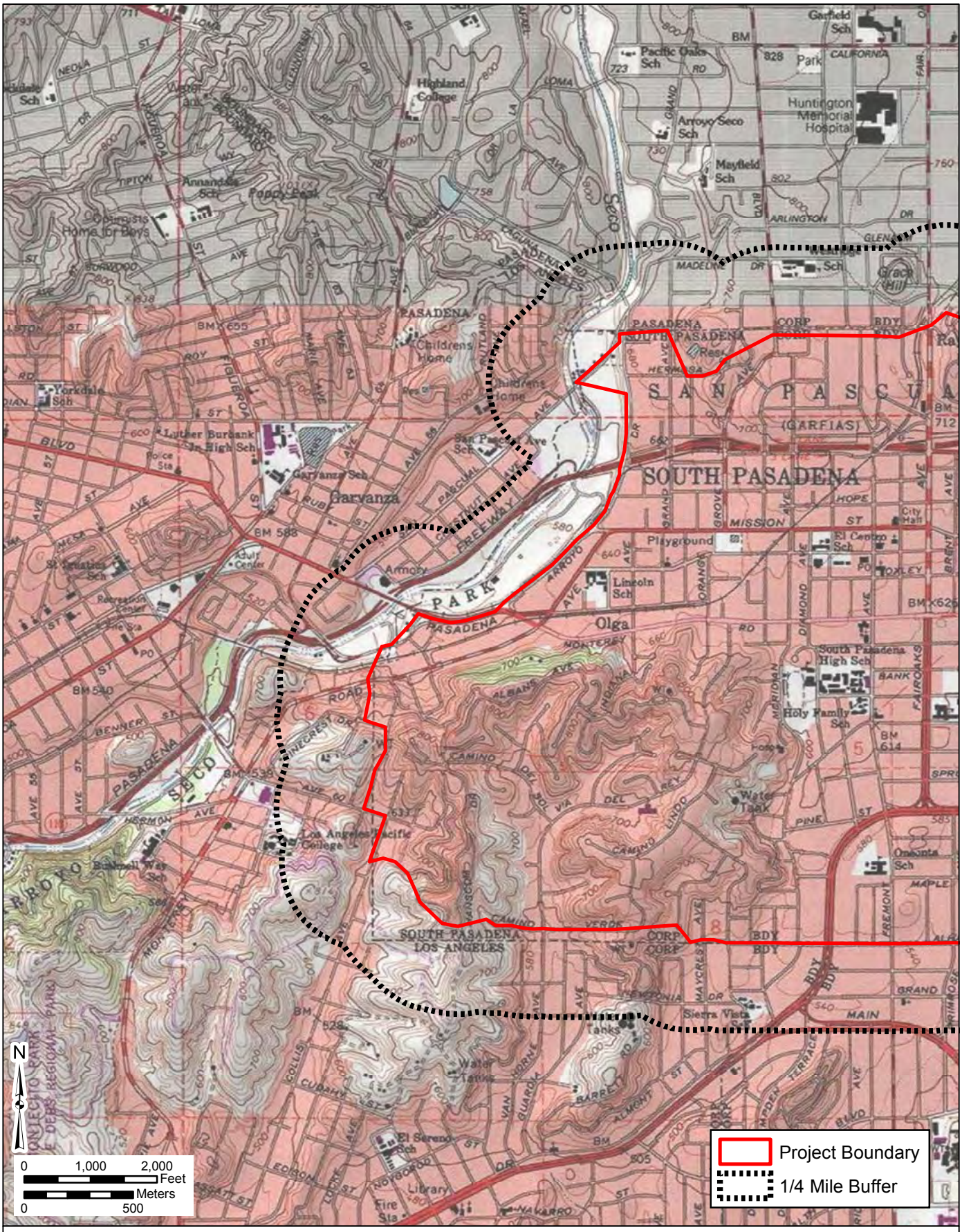

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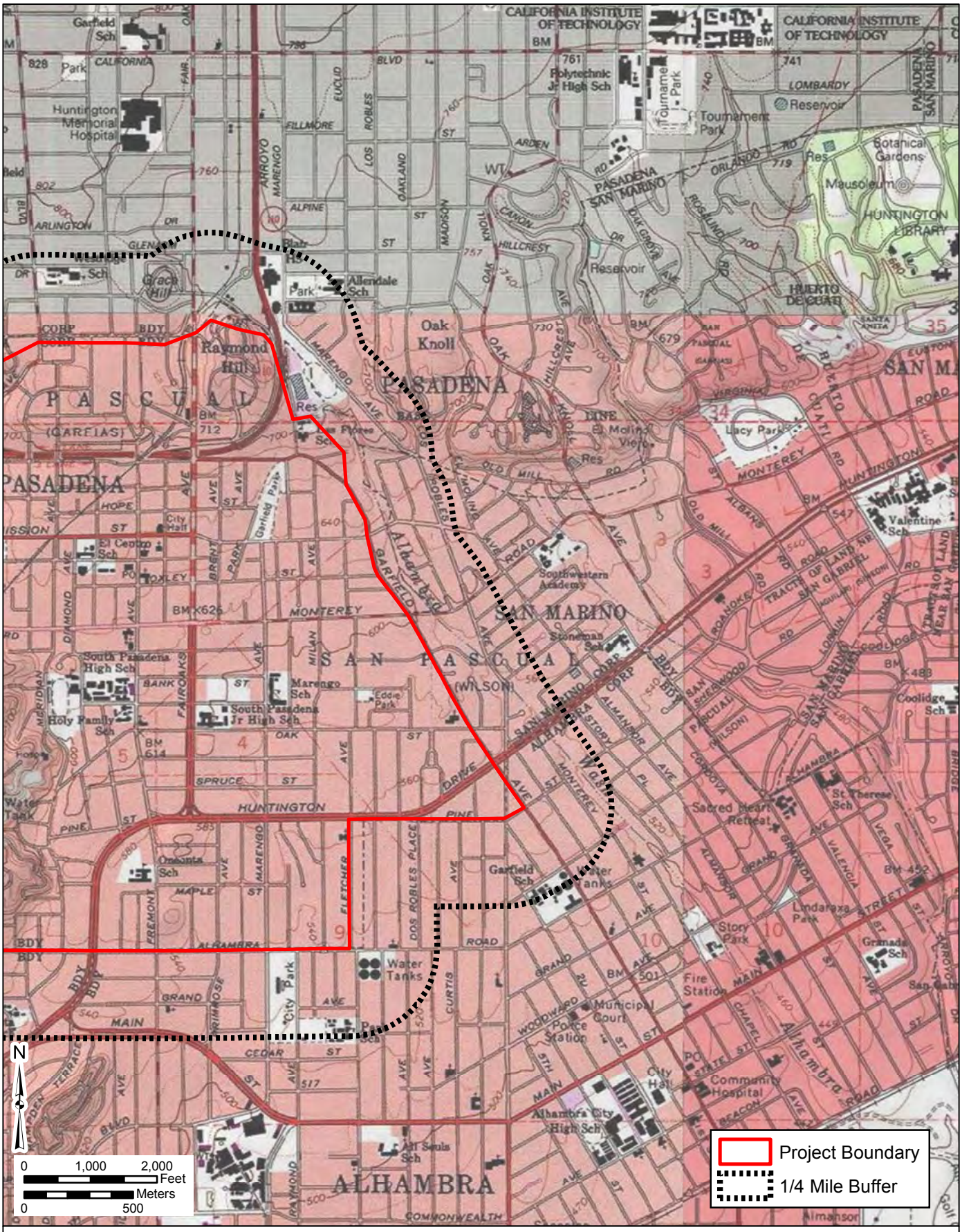

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ENCINITAS, CALIFORNIA 92024
T 760.942.5147 T 800.450.1818 F 760.632.0164

May 30, 2013

Mr. John Tommy Rosas, Tribal Admin.
Tongva Ancestral Territorial Tribunal Nation

Subject: Consultation Request for the Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California

Dear Mr. Rosas,

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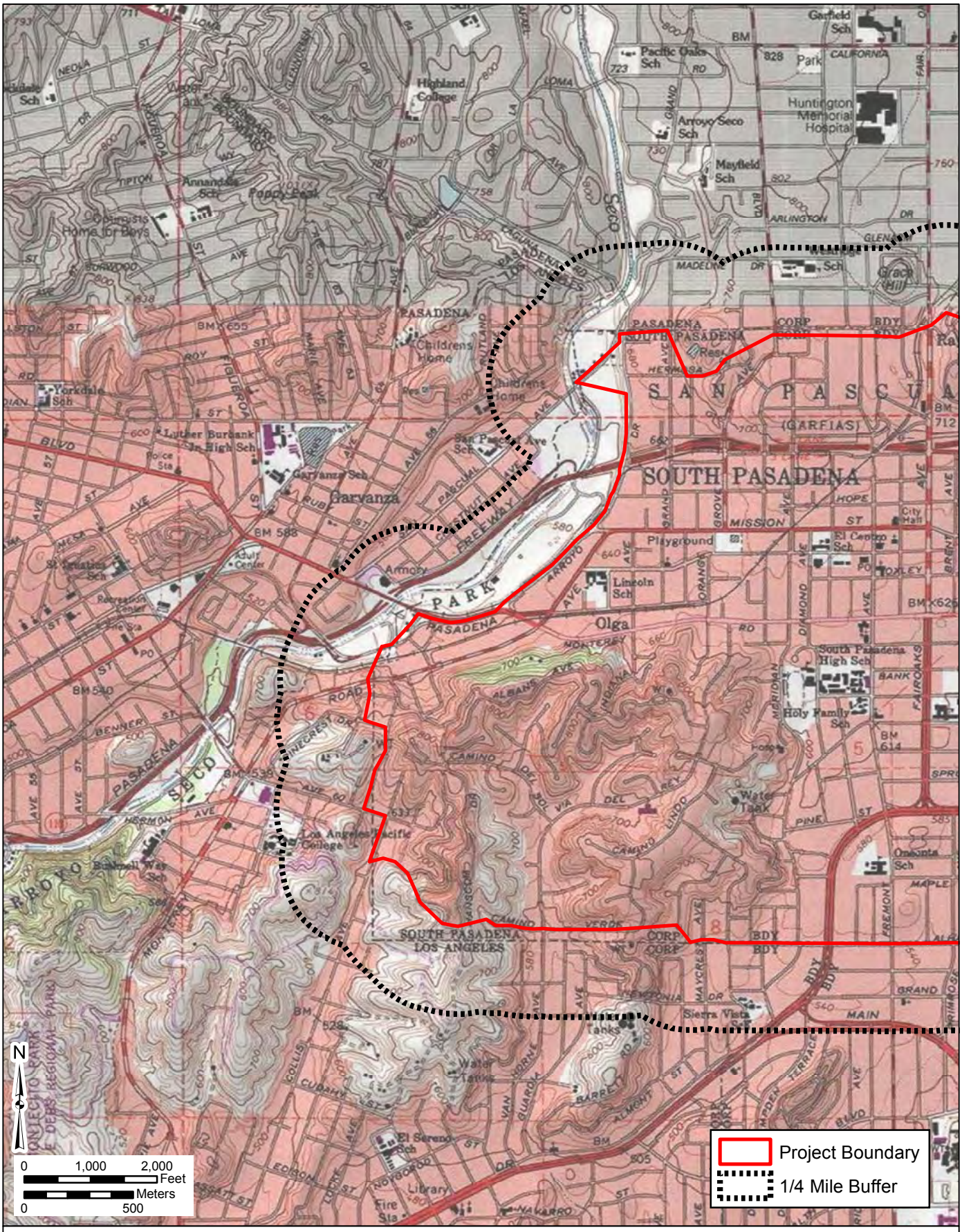

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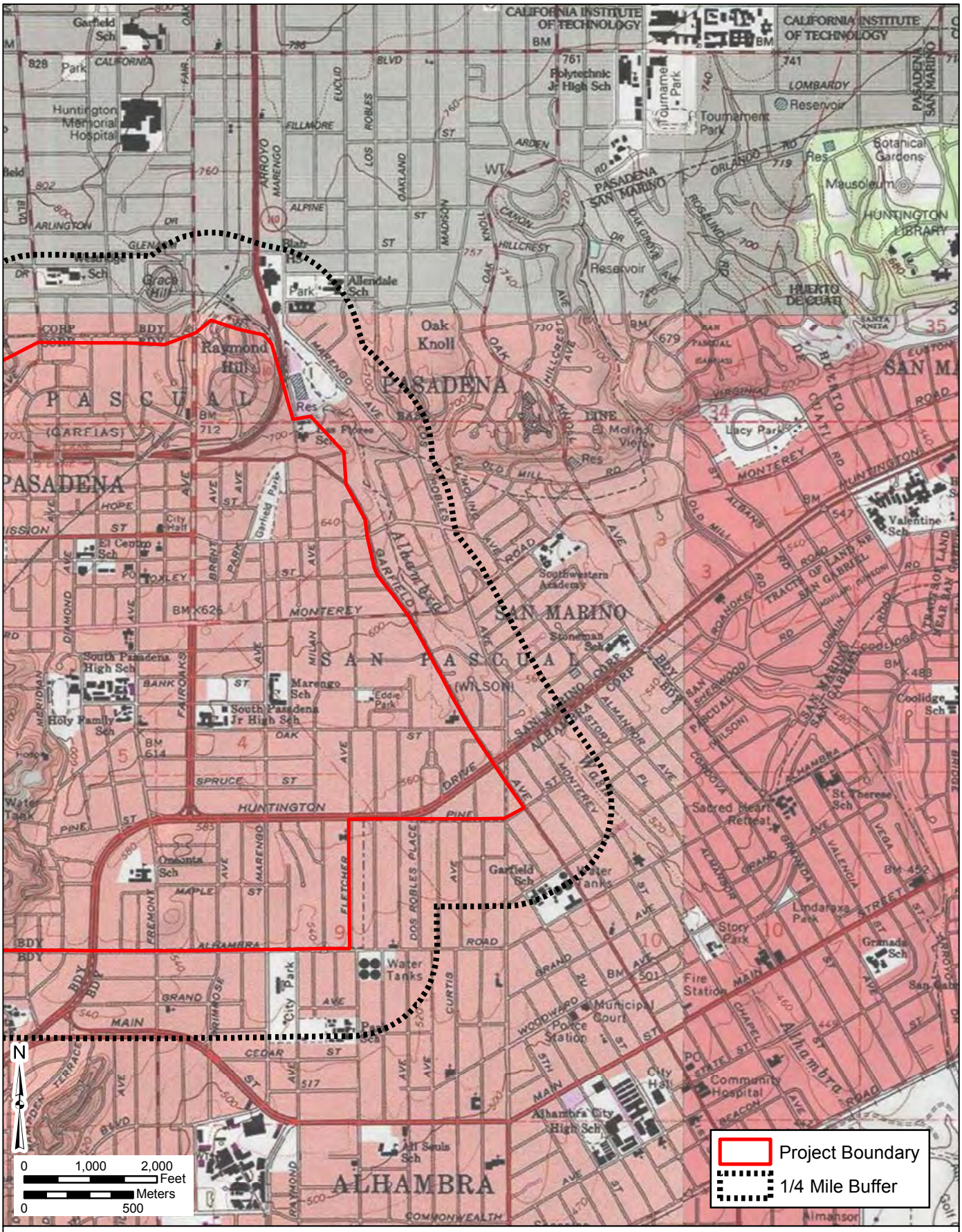

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May 30, 2013

Mr. Andrew Salas, Chairperson
Gabrieleno Band of Mission Indians
P.O. Box 393
Covina, CA 91723

Subject: Consultation Request for the Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California

Dear Mr. Salas,

The City of South Pasadena is proposing improvements to the wastewater pipeline system located in the City of South Pasadena (the City). Pipeline segments which will be either replaced or rehabilitated are located throughout the City. The City is located within the U.S. Geological Survey (USGS) 7.5-minute Los Angeles and Pasadena quadrangles (USGS 1994) in Township 1N / Range 12 W / Section 31, 32, 33 and Township 1S / Range 12 W / Sections 3, 4, 5, 6, 7, 8, 9, 10.

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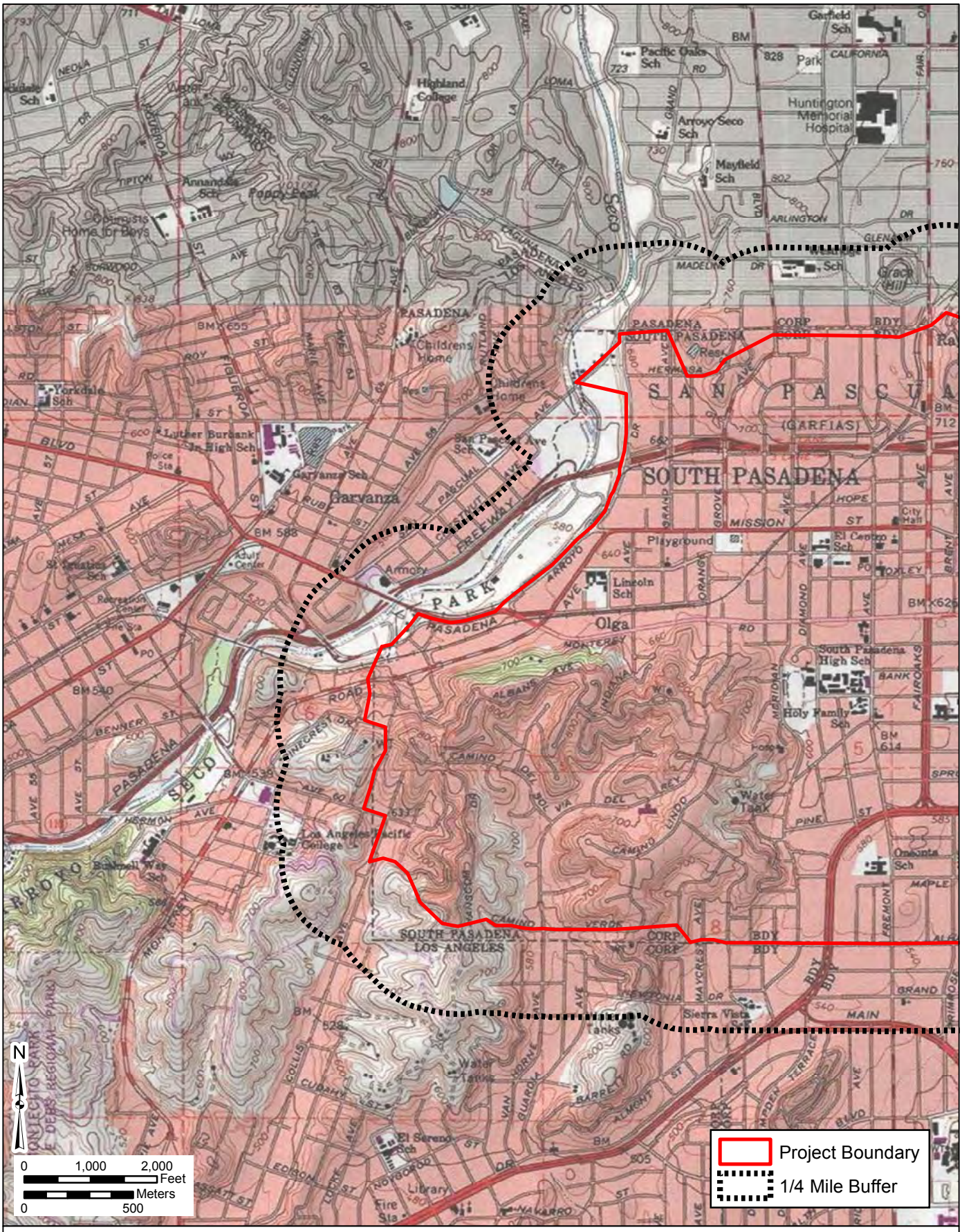

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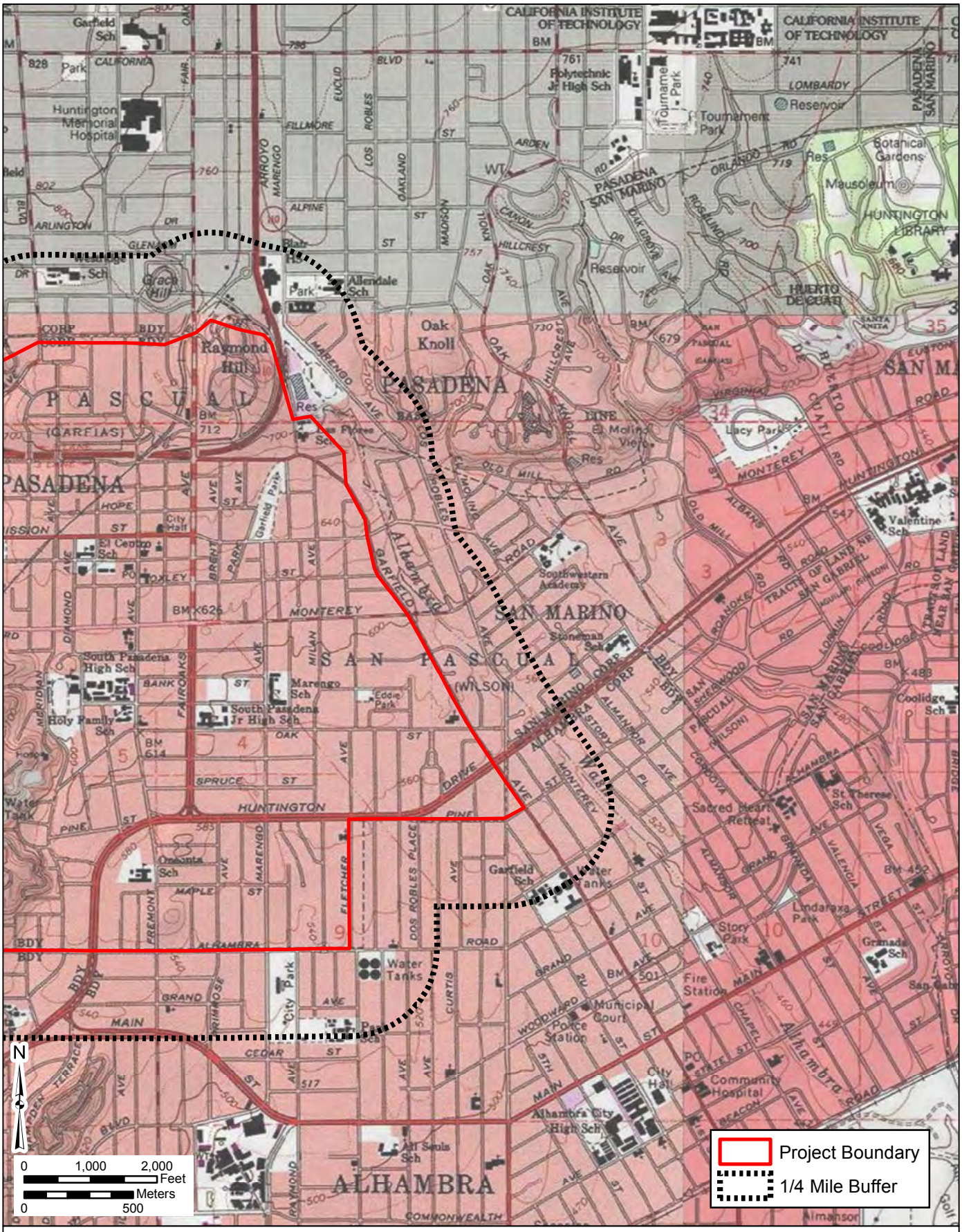

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May 30, 2013

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Tongva Ancestral Territorial Tribunal Nation

Subject: Consultation Request for the Wastewater Pipeline Improvement Project, City of South Pasadena, Los Angeles County, California

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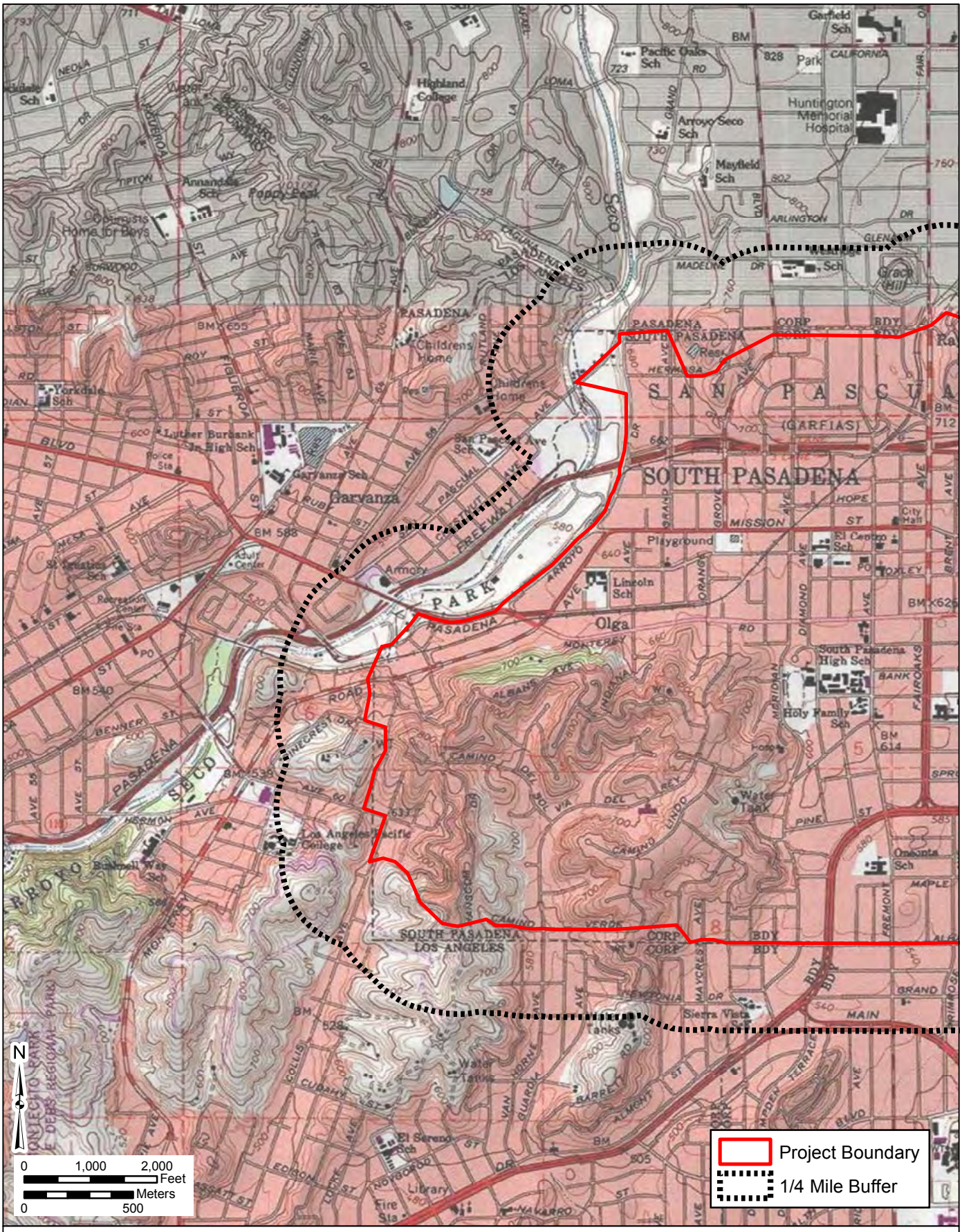

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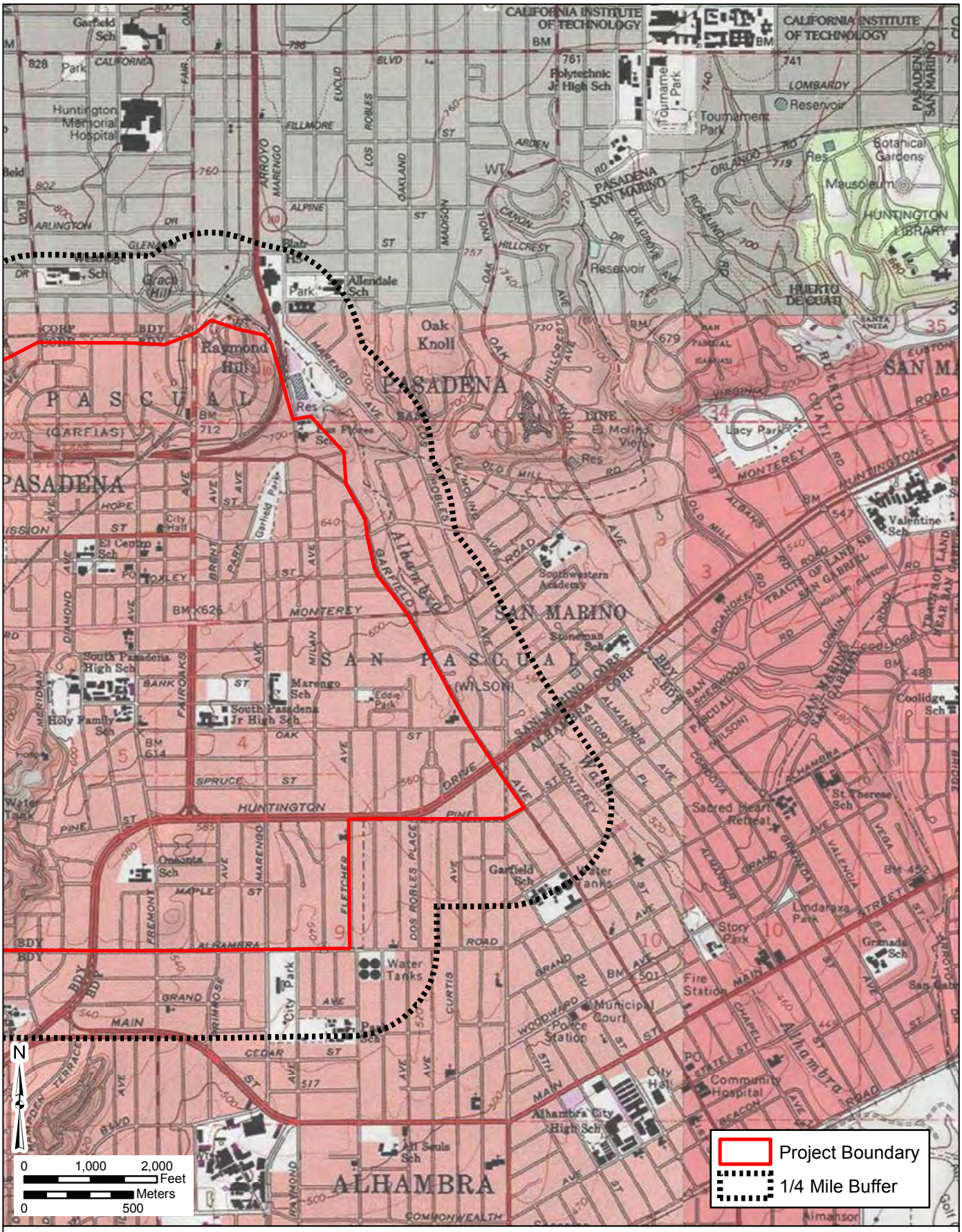

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Archaeological Records Search Request

City of South Pasadena Sewer Rehabilitation and Replacement Project

Hannah Westwood

From: Brad Comeau
Sent: Wednesday, May 29, 2013 3:25 PM
To: 'Dave Singleton'
Subject: RE: Sacred Lands Search request
Attachments: South Pasadena_NAHC Sacred Lands File RS.docx

Dave,

Sorry about that. The Township, Range and Sections are listed below. I also edited the letter to include the info.

Township 1N / Range 12 W / Section 31, 32, 33
Township 1S / Range 12 W / Sections 3, 4, 5, 6, 7, 8, 9, 10

Brad

From: Dave Singleton [mailto:ds_nahc@pacbell.net]
Sent: Wednesday, May 29, 2013 3:19 PM
To: Brad Comeau
Subject: Re: Sacred Lands Search request

May 29, 2013

Dear Brad:

We received the Wastewater Pipeline Improvement Project request.
It is helpful to our technicians to put the Townships, Ranges and Section in the body of the request letter, or put it on our SLF Request Form.

Thank you.

Dave Singleton
California Native American Heritage Commission
1550 Harbor Boulevard, Suite 100
West Sacramento, CA 95691
(916) 373-3715 - Direct Line
(916) 373-3710 - Main Line
(916) 373-5471 - FAX
ds_nahc@pacbell.net
www.nahc.ca.gov

On May 29, 2013, at 3:08 PM, Brad Comeau <bcomeau@dudek.com> wrote:

Hi Dave,

Attached to this email is a request for a search of the NAHC Sacred Lands file for the City of South Pasadena Wastewater Pipeline Replacement project. I know the area is rather large for the project, and this is last minute, but would you be able to do this today? Thank you very much.

Brad E. Comeau
Archaeologist
Dudek
605 Third Street
Encinitas, CA 92024
(o) 760.479.4211
(c) 760.213.0581
bcomeau@dudek.com

<South Pasadena_NAHC Sacred Lands File RS.docx><Figure 2_Project location map2.pdf><Figure 1_Project location map1.pdf>

Hannah Westwood

From: Dave Singleton <ds_nahc@pacbell.net>
Sent: Wednesday, May 29, 2013 3:33 PM
To: Brad Comeau
Subject: Re: Sacred Lands Search request

Thanks!

On May 29, 2013, at 3:25 PM, Brad Comeau <bcomeau@dudek.com> wrote:

> <South Pasadena_NAHC Sacred Lands File RS.docx>

Hannah Westwood

From: Johntommy Rosas <tattnlaw@gmail.com>
Sent: Thursday, May 30, 2013 3:36 PM
To: Linda Wiss
Cc: Brad Comeau
Subject: Re: South Pasadena Tribunal Request Letter

thanks I will reply more after reviewing your doc and our records

I dont have the word tribunal in our name so please edit /correct that

it might seem like we have tribunal [s] but those were like more old roman

evolving by reference to impose some admin authority even quasi -

Andrew Birrell (after Henry Fuseli), *Caractacus at the Tribunal of Claudius at Rome* (1792)

etc

thanks jt

On Thu, May 30, 2013 at 3:16 PM, Linda Wiss <lwiss@dudek.com> wrote:

Dear Mr. Rosas:

Attached please find the South Pasadena Tribunal Request Letter.

Should you have any questions or need further assistance, please do not hesitate to contact Brad Comeau at bcomeau@dudek.com or (760) 479-4211.

Very truly yours,

Linda Wiss

Linda Wiss

Administrative Assistant

605 Third St.

Encinitas, CA 92024

(760) 942-5417 X4213

--
JOHN TOMMY ROSAS
TRIBAL ADMINISTRATOR
TRIBAL LITIGATOR
TONGVA ANCESTRAL TERRITORIAL TRIBAL NATION
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