
Final

Program Environmental Impact Report

Collection System Improvement Plan

SCH# 2006101018

Prepared for



Orange County Sanitation District

June 2007

Prepared by



10844 Ellis Avenue
Fountain Valley, CA 92708

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Appendix

A Mitigation Monitoring and Reporting Program

Figure

1-1 Proposed Improvements

Acronyms

BMP	best management practice
Caltrans	California Department of Transportation
CDFG	California Department of Fish and Game
CEQA	California Environmental Quality Act
CHRIS	California Historical Resources Information System
CWA	Clean Water Act
DAMP	Drainage Area Management Plan
DOGGR	California Department of Conservation, Division of Oil, Gas, and Geothermal Resources
EIR	Environmental Impact Report
mgd	million gallons per day
MMRP	Mitigation Monitoring and Reporting Program
MSDS	Material Safety Data Sheet
MUTCD	Manual on Uniform Traffic Control Devices
NAHC	California Native American Heritage Commission
NOA	Notice of Availability
NOP	Notice of Preparation
NPDES	National Pollutant Discharge Elimination System
OHP	Office of Historic Preservation
OPR	Governor's Office of Planning and Research
PEIR	Program Environmental Impact Report
Plan	Collection System Improvement Plan
PRC	Public Resources Code
RDMD	Orange County Resources and Development Management Department
RPA	Registered Professional Archaeologist
RWQCB	Regional Water Quality Control Board

SLF	Sacred Lands File
SWMPs	Storm Water Management Plans
SWPCP	Storm Water Pollution Control Plan
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
the Sanitation District	Orange County Sanitation District
UBC	Uniform Building Code
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service

1.0 Introduction

1.1 Purpose of the Final Environmental Impact Report

This report has been prepared to accompany the Draft Program Environmental Impact Report (PEIR) for the Orange County Sanitation District's (Sanitation District) Collection System Improvement Plan (Plan). The Draft PEIR identified the environmental impacts associated with implementation of 19 collection system improvement projects and recommended mitigation measures to reduce significant and potentially significant impacts. This document, together with the Draft PEIR, constitutes the Final PEIR under the California Environmental Quality Act (CEQA).

1.2 Environmental Review Process

The Draft PEIR was prepared to address potential environmental impacts that are anticipated to result from construction and operation of the proposed collection system improvement projects evaluated in the proposed Plan. The proposed Plan is located within the Sanitation District Service area, as shown in Figure 1-1, and includes potential improvements to the regional wastewater collection system to accommodate existing and planned growth in northern and central Orange County. The proposed improvements also will help to maintain, rehabilitate, and upgrade the existing facilities to ensure adequate collection system conditions for the future.

The proposed Plan would implement 19 collection system improvement projects to address existing and projected deficiencies in the regional trunk sewer system and repairs, replacements, and minor modifications to collection system facilities. The Draft PEIR was prepared in accordance with CEQA. The Sanitation District is the Lead Agency for the CEQA process and has independently evaluated, directed, and supervised the preparation of this document.

In accordance with the State CEQA Guidelines, the Draft PEIR was prepared and distributed to public agencies and the general public by the Sanitation District on March 15, 2007, for a 45-day public review period. A Notice of Availability (NOA) for public review was posted at the Orange County Clerk's Office, a public notice was published in the Orange County Register on March 16, 2007, and a Notice of Completion (NOC) was filed with the State Clearinghouse of the Governor's Office of Planning and Research. The notices included a list of locations where the document was available for public review. Public comments on the Draft PEIR were also solicited at a public hearing that was held on April 3, 2007. No substantive comments on content of the Draft PEIR or significant environmental issues related to the proposed Plan were raised at the public hearing.

Insert Figure 1-1. Proposed Improvements

1.3 Report Organization

The Final PEIR for the Plan consists of the Draft PEIR dated March 2007, State Clearinghouse Number 2006101018, and this document. The remaining sections of this document are as follows:

Section 2, Comment Letters and Responses to Comments. This section includes copies of the comment letters that were received during the public comment period for the Draft PEIR and provides detailed responses to the comments contained in those letters. Each comment letter has been assigned a unique number, and each comment within each letter has been delineated and assigned a corresponding number. Written responses to each comment are assigned the same number. Responses to comments follow each letter.

Section 3, Text Revisions. This section includes corrections, revisions, and changes to the Draft PEIR as a result of comments, or based on revisions initiated by Sanitation District staff.

Section 4, Mitigation Monitoring and Reporting Program. This section includes details on the Mitigation Monitoring and Reporting Program (MMRP) and Appendix A (MMRP) includes the mitigation measures identified in the Draft PEIR required to address significant impacts associated with project implementation. The MMRP specifies the implementation procedure, actions, responsibility, and schedule for implementation of each mitigation measure.

1.4 Revised Text

To clarify corrections, revisions, and changes to the Draft PEIR text, section 3 includes text revisions. These corrections include: minor corrections made by the Draft PEIR authors to improve writing clarity, grammar, and consistency; corrections or clarifications requested by a specific commenter; or staff initiated text changes to update information presented in the Draft PEIR. The text revisions are organized by chapter and sections. Deleted text presented in this section indicates text that has been deleted from the Final PEIR. Text that has been added to the Final PEIR is presented as single underlined.

2.0 Comment Letters and Responses to Comments

This section of the Final PEIR includes a copy of all comment letters submitted to the Lead Agency and contains responses to comments in accordance with CEQA Guidelines Section 15088 (Evaluation of and Responses to Comments). Each comment letter has been assigned a unique number, and each comment within each letter has been delineated and assigned a corresponding number. Written responses to each comment are assigned the same number. Responses to comments follow each letter. The CEQA comment period for the Draft PEIR for the proposed Plan started on March 15, 2007 and ended 45 days later on April 30, 2007. Eleven comment letters were received.

The Governor's Office of Planning and Research, State Clearinghouse confirmation letter is included within this section. This letter confirms that the Clearinghouse received the Draft PEIR and disseminated copies to interested agencies per CEQA procedures.

Comment letters were received from the following agencies and persons and are listed below:

<u>Letter No.</u>	<u>Agency</u>
1	Governor's Office of Planning and Research, State Clearinghouse
2.	California Department of Transportation
3	California Native American Heritage Commission
4	City of Anaheim
5	City of Costa Mesa
6	City of Cypress
7	City of Fountain Valley
8	City of Huntington Beach
9	City of Irvine
10	City of Seal Beach
11	City of Tustin
12	Irvine Ranch Water District

Comment Letter No. 1



ARNOLD SCHWARZENEGGER
GOVERNOR

STATE OF CALIFORNIA
GOVERNOR'S OFFICE of PLANNING AND RESEARCH
STATE CLEARINGHOUSE AND PLANNING UNIT



2007 MAY -3 10 55 AM
CYNTHIA BRYANT
DIRECTOR

ENGINEERING

May 1, 2007

John Linder
Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, CA 92708-7018

Subject: Collection System Improvement Plan (Plan)
SCH#: 2006101018

Dear John Linder:

The State Clearinghouse submitted the above named Draft EIR to selected state agencies for review. The review period closed on April 30, 2007, and no state agencies submitted comments by that date. This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act.

1

Please call the State Clearinghouse at (916) 445-0613 if you have any questions regarding the environmental review process. If you have a question about the above-named project, please refer to the ten-digit State Clearinghouse number when contacting this office.

Sincerely,

Terry Roberts
Director, State Clearinghouse

1400 10th Street P.O. Box 3044 Sacramento, California 95812-3044
(916) 445-0613 FAX (916) 323-3018 www.opr.ca.gov


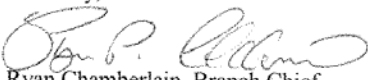
Response to Comment Letter No. 1

Response to Comment No. 1

Comment specifies that no state agencies submitted comments to the State Clearinghouse by the close of the review period and that the Sanitation District complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to CEQA.

Comment noted.

Comment Letter No. 2

<p>STATE OF CALIFORNIA—BUSINESS, TRANSPORTATION AND HOUSING AGENCY</p> <p>DEPARTMENT OF TRANSPORTATION District 12 3337 Michelson Drive, Suite 380 Irvine, CA 92612-8894 Tel: (949) 724-2267 Fax: (949) 724-2592</p>	<p>ARNOLD SCHWARZENEGGER, Governor</p>  <p><i>Flex your power! Be energy efficient!</i></p>
<p>RECEIVED 2007 MAY -7 AM 7: 23 ENGINEERING FAX & MAIL</p>	
<p>April 30, 2007</p>	
<p>John Linder Orange County Sanitation District 10844 Ellis Avenue Fountain Valley, California 92708-7018</p>	<p>File: IGR/CEQA SCH#: 2006101018 Log #: 1786A I-405,5, SR-55,73,57,22,91</p>
<p>Subject: OCSD Service Area Annexation and Collection System Improvement Plan PEIR</p>	
<p>Dear Mr. Linder,</p>	
<p>Thank you for the opportunity to review and comment on the Program Environmental Impact Report (PEIR) for the Orange County Sanitation District (OCSD) Service Area Annexation and Collection System Improvement Plan. OCSD is proposing 19 collection system improvement projects, which will address existing and project deficiencies in the regional trunk sewer system and repairs, replacements, and minor modifications to collection system facilities. The nearest State routes to the project areas are I-405, I-5, SR-55, SR-73, SR-57, SR-22, and SR-91.</p>	
<p>Caltrans District 12 status is a responsible agency on this project and has the following comments:</p>	
<p>1. All signage within our right-of-way shall be in conformance with Caltrans standards, which are detailed in the California Manual on Uniform Traffic Control Devices (MUTCD) 2006 Version, Part 2. This can be viewed at: http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/pdf/camutcd/CAMUTCD-Part2.pdf</p>	
<p>1</p>	
<p>Please continue to keep us informed of this project and any future developments, which could potentially impact the State Transportation Facilities. If you have any questions or need to contact us, please do not hesitate to call Marlon Regisford at (949) 724-2241.</p>	
<p>Sincerely,</p>  <p>Ryan Chamberlain, Branch Chief Local Development/Intergovernmental Review</p>	
<p>C: Terry Roberts, Office of Planning and Research</p>	
<p><i>"Caltrans improves mobility across California"</i></p>	

Response to Comment Letter No. 2

Response to Comment No. 1

Comment specifies that all signage within a Caltrans right-of-way shall be in conformance with Caltrans standards, which are detailed in the California Manual on Uniform Traffic Control Devices (MUTCD) 2006 Version, Part 2.

Implementation of Mitigation Measures 3.12-1c and 3.12-d would ensure that signage within a Caltrans right-of-way would be in conformance with the Caltrans standards detailed in the California MUTCD 2006 Version, Part 2.

Comment Letter No. 3

STATE OF CALIFORNIA

Arnold Schwarzenegger, Governor

NATIVE AMERICAN HERITAGE COMMISSION

915 CAPITOL MALL, ROOM 964
 SACRAMENTO, CA 95814
 (916) 653-6251
 Fax (916) 657-5390
 Web Site www.nahc.ca.gov
 e-mail: ds_nahc@pacbell.net

RECEIVED

2007 MAY 1 PM 2:50

ENGINEERING



April 25, 2007

Mr. John Linder
Orange County Sanitation District
 10844 Ellis Avenue
 Fountain Valley, CA 92708-7018

Re: SCH#2006101018; CEQA Notice of Completion; draft Environmental Impact Report (DEIR) for Collection System Improvement Plan; Orange County Sanitation District; Orange County, California

Dear Mr. Linder:

Thank you for the opportunity to comment on the above-referenced document. The Native American Heritage Commission is the state's Trustee Agency for Native American Cultural Resources. The California Environmental Quality Act (CEQA) requires that any project that causes a substantial adverse change in the significance of an historical resource, that includes archaeological resources, is a 'significant effect' requiring the preparation of an Environmental Impact Report (EIR) per CEQA guidelines § 15064.5(b)(c). In order to comply with this provision, the lead agency is required to assess whether the project will have an adverse impact on these resources within the 'area of potential effect (APE)', and if so, to mitigate that effect. To adequately assess the project-related impacts on historical resources, the Commission recommends the following action:

- √ Contact the appropriate California Historic Resources Information Center (CHRIS). Contact information for the Information Center nearest you is available from the State Office of Historic Preservation (916/653-7278)/ <http://www.ohp.parks.ca.gov/1068/files/IC%20Roster.pdf>. The record search will determine:
 - If a part or the entire APE has been previously surveyed for cultural resources.
 - If any known cultural resources have already been recorded in or adjacent to the APE.
 - If the probability is low, moderate, or high that cultural resources are located in the APE.
 - If a survey is required to determine whether previously unrecorded cultural resources are present.
- √ If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure.
 - The final written report should be submitted within 3 months after work has been completed to the appropriate regional archaeological Information Center.
- √ Contact the Native American Heritage Commission (NAHC) for:
 - A Sacred Lands File (SLF) search of the project area and information on tribal contacts in the project vicinity that may have additional cultural resource information. Please provide this office with the following citation format to assist with the Sacred Lands File search request: USGS 7.5-minute quadrangle citation with name, township, range and section.
 - The NAHC advises the use of Native American Monitors to ensure proper identification and care given cultural resources that may be discovered. The NAHC recommends that contact be made with Native American Contacts on the attached list to get their input on potential project impact (APE).
- √ Lack of surface evidence of archeological resources does not preclude their subsurface existence.
 - Lead agencies should include in their mitigation plan provisions for the identification and evaluation of accidentally discovered archeological resources, per California Environmental Quality Act (CEQA) §15064.5 (f). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American, with knowledge in cultural resources, should monitor all ground-disturbing activities.
 - Lead agencies should include in their mitigation plan provisions for the disposition of recovered artifacts, in consultation with culturally affiliated Native Americans.
- √ Lead agencies should include provisions for discovery of Native American human remains or unmarked cemeteries in their mitigation plans.
 - CEQA Guidelines, Section 15064.5(d) requires the lead agency to work with the Native Americans identified by this Commission if the initial Study identifies the presence or likely presence of Native American human

1

2

3

remains within the APE. CEQA Guidelines provide for agreements with Native American, identified by the NAHC, to assure the appropriate and dignified treatment of Native American human remains and any associated grave liens.

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(cont.)

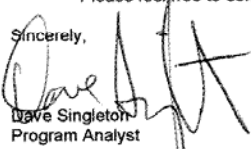
√ Health and Safety Code §7050.5, Public Resources Code §5097.98 and Sec. §15064.5 (d) of the CEQA Guidelines mandate procedures to be followed in the event of an accidental discovery of any human remains in a location other than a dedicated cemetery.

√ Lead agencies should consider avoidance, as defined in § 15370 of the CEQA Guidelines, when significant cultural resources are discovered during the course of project planning.

4

Please feel free to contact me at (916) 653-6251 if you have any questions.

Sincerely,



Dave Singleton
Program Analyst

Cc: State Clearinghouse

Attachment: List of Native American Contacts

Native American ContactsOrange County
April 25, 2007

Ti'At Society
Cindi Alvitre
6602 Zelzah Avenue
Reseda, CA 91335
calvitre@yahoo.com
(714) 504-2468 Cell

Gabrielino

Juaneno Band of Mission Indians Acjachemen Nation
Anthony Rivera, Chairman
31411-A La Matanza Street
San Juan Capistrano, CA 92675-2674
arivera@juaneno.com
949-488-3484
949-488-3294 Fax

Juaneno Band of Mission Indians Acjachemen Nation
David Belardes, Chairperson
31742 Via Belardes
San Juan Capistrano, CA 92675
(949) 493-0959
(949) 493-1601 Fax

Juaneno

Juaneno Band of Mission Indians Acjachemen Nation
Joyce Perry, Tribal Manager & Cultural Resources
31742 Via Belardes
San Juan Capistrano, CA 92675
(949) 493-0959
(949) 493-1601 Fax

Juaneno

Gabrieleno/Tongva Tribal Council
Anthony Morales, Chairperson
PO Box 693
San Gabriel, CA 91778
ChiefRBwife@aol.com
(626) 286-1632
(626) 286-1758 - Home
(626) 286-1262 Fax

Gabrielino Tongva

Juaneno Band of Mission Indians
Alfred Cruz, Cultural Resources Coordinator
P.O. Box 25628
Santa Ana, CA 92799
714-998-0721

Juaneno

Juaneno Band of Mission Indians
Anita Espinoza
1740 Concerto Drive
Anaheim, CA 92807
(714) 779-8832

Juaneno

Juaneno Band of Mission Indians
Joe Ocampo, Environmental Coordinator
P.O. Box 25628
Santa Ana, CA 92799
949-462-0710
949-462-945 Fax

Juaneno

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native American with regard to cultural resources for the proposed SCH#2006101018; CEQA Notice of Completion; draft Environmental Impact Report (DEIR) for Collection System Improvement Plan; Orange County Sanitation District; Orange County, California.

Response to Comment Letter No. 3

Response to Comment No. 1

Comment states that to adequately assess impacts on historical resources that a California Historical Resources Information System (CHRIS) record search be completed and that the Native American Heritage Commission (NAHC) should be contacted to search the Sacred Lands File (SLF).

Implementation of Mitigation Measure 3.4-1 would ensure that a CHRIS record search and search of the SLF maintained by NAHC would be completed for individual project alignments. Implementation of this mitigation measure would also ensure that appropriate documentation of an archaeological inventory survey (if needed) would be completed and that related Native American representatives would be contacted.

Response to Comment No. 2

Comment states that provisions for the identification and evaluation of accidentally discovered archaeological resources should be included in the mitigation plan.

Implementation of Mitigation Measures 3.4-1, 3.4-2a, 3.4-2b, and 3.4-2c would ensure that any accidentally discovered archaeological resources would be identified, evaluated, and managed appropriately.

Response to Comment No. 3

Comment states that CEQA Guidelines require the lead agency to work with Native American representatives, identified by the NAHC, to assure the appropriate and dignified treatment of Native American human remains. Comment also states that CEQA Guidelines require accidental discovery of human remains to be managed in accordance with PRC § 5097.94, 5097.98, and 5097.99 and Health and Safety Code § 7050.5.

Implementation of Mitigation Measures 3.4-1 and 3.4-2c would ensure that related Native American representatives would be contacted to assure the appropriate and dignified treatment of Native American human remains and that accidental discovery of human remains would be managed in accordance with Public Resources Code (PRC) § 5097.94, 5097.98, and 5097.99 and Health and Safety Code § 7050.5.

Response to Comment No. 4

Comment states that the lead agency should consider avoidance, as defined in § 15307 of the CEQA Guidelines, when significant resources are discovered during the course of project planning.

Comment noted. The Sanitation District would consider avoidance, as defined in § 15307 of the CEQA Guidelines, when significant resources are discovered during the course of project planning.

Comment Letter No. 4



City of Anaheim
PLANNING DEPARTMENT

May 3, 2007

John D. Linder, Engineering Manager
Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, CA 92708

**Re: Notice of Availability of a Draft Program Environmental
Impact Report for the Orange County Sanitation District
(OCSD) Collection System Improvement Plan**

Dear Mr. Linder:

Thank you for the opportunity to review and comment on the above-referenced environmental document. City of Anaheim staff offers the following comments:

Mitigation Measures 3.11-7, 3.12-1e and 3.12-1f, listed in the Summary of Project Impacts and Mitigation Measures, state that the Sanitation District will coordinate with other jurisdictions as required to ensure compatibility and coordination with other projects already planned in the affected locations. To this end, the City of Anaheim has several paving projects planned within the areas of the Magnolia Trunk Rehabilitation (CIP No. 03-58) and Newhope-Placentia and Cypress Trunk Replacement (CIP No. 02-65) projects (paving schedules are attached).

1

Additionally, a significant railroad grade separation project on State College Boulevard, north of Katella Avenue, is scheduled to occur between 2015 and 2017. To facilitate project coordination, the project schedule can be obtained on the City's website at www.anaheim.net and clicking on the link to "Platinum Triangle Community Facilities District/Assessment District Information".

In order to ensure coordination with the above-mentioned projects, staff recommends that OCSD notify the City of Anaheim Engineer at least two years prior to construction of improvements associated with the Magnolia Trunk Rehabilitation and Newhope-Placentia and Cypress Trunk Replacement projects.

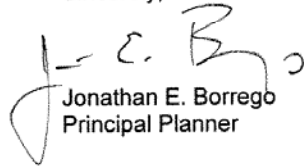
2

200 South Anaheim Boulevard
P.O. Box 3222
Anaheim, California 92803
TEL (714) 765-5139

www.anaheim.net

We would again like to thank you for the opportunity to comment on the Draft PEIR. Please forward any further environmental documentation relative to this project to my attention at the address indicated on the bottom of this letter's first page. Please forward any questions relative to these comments to Marie Newland, Planner, at (714) 765-5139, Extension 5739.

Sincerely,



Jonathan E. Borrego
Principal Planner

C: Natalie Meeks, City Engineer
John Lower, Traffic/Transportation Manager
Ed Fernandez, Development Services Manager
Jamie Lai, Principal Civil Engineer
David Kennedy, Associate Transportation Planner
Linda Johnson, Principal Planner
Khanh Chu, Associate Engineer

OCSDCollSystemRespl.letter

FY 2006 PMS AHS

IMS Infrastructure
Management Services

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Zone	Strt.	Sub-str.	Street	From	To	Rank	Year	Cat.	Str.	Cost
001	0011	001	ANAHEIM BLVD	CERRITOS AVE	ANAHEIM WAY	64	2010	15	6 \$	504,173
001	0048	003	BROADWAY	DS@3000W	EUCLID BROOKHURST ST	81	2010	15	2 \$	263,514
001	0054	002	BROOKHURST ST	DS@2003S	91 LA PALMA AVE	64	2010	05	6 \$	308,372
001	0069	002	CERRITOS AVE	DS@600W	SUNKIST STATE COLLEGE ST BLVD	80	2010	15	1 \$	143,234
001	0076	001	CERRITOS AVE	EAST END	WEST END	64	2010	15	6 \$	107,168
001	0088	001	DALE AVE	NORTH END	SOUTH END	64	2010	15	6 \$	70,739
001	0089	001	DALE AVE	CRESCENT AVE	LINCOLN AVE	64	2010	15	6 \$	712,479
001	0090	001	DALE AVE	LINCOLN AVE	BROADWAY	64	2010	15	6 \$	351,747
001	0095	001	DISNEY WAY	CLEMENTINE ST	HARBOR BLVD	83	2010	05	3 \$	269,386
001	0102	001	EAST ST	LINCOLN AVE	BROADWAY	64	2010	15	6 \$	357,730
001	0104	001	EUCLID ST	91	DS@487S 91	64	2010	15	6 \$	207,963
001	0139	001	GLASSELL ST	FRONTERA ST	DS@300S FRONTERA ST	84	2010	15	4 \$	55,348
001	0142	001	HARBOR BLVD	91	LA PALMA AVE	83	2010	05	1 \$	353,070
001	0144	001	HARBOR BLVD	LINCOLN AVE	BROADWAY	50	2010	05	6 \$	344,893
001	0150	002	HARBOR BLVD	DS@700S	DISNEY KATELLA AVE	82	2010	05	1 \$	92,816
001	0155	001	HASTER ST	DS@1237S	SOUTH END	64	2010	15	6 \$	309,080
001	0165	001	KELLOGG DR	ORANGEWOOD ORANGETHORPE AVE	LA PALMA AVE	64	2010	15	6 \$	705,842
001	0182	001	LA PALMA AVE	LAKEVIEW AVE	DS@700W LAKEVIEW AV	82	2010	15	1 \$	93,926
001	0186	001	LA PALMA AVE	KRAEMER BLVD	DS@2600W KRAEMER BL	87	2010	15	4 \$	436,898
001	0193	001	LA PALMA AVE	EAST ST	DS@2600W EAST ST	62	2010	15	6 \$	1,011,286
001	0193	002	LA PALMA AVE	DS@2600W EAST ST	ANAHEIM BLVD	62	2010	15	6 \$	513,488
001	0215	002	LEWIS ST	DS@1000S	BALL RDDS@1500S BALL RD	62	2010	15	6 \$	181,038
001	0238	001	MAGNOLIA AVE	NORTH END	DS@1000S NORTH END	62	2010	15	6 \$	379,630
001	0238	002	MAGNOLIA AVE	DS@1000S NORTH END	DS@1500S NORTH END	64	2010	15	6 \$	197,495
001	0238	003	MAGNOLIA AVE	DS@1500S NORTH END	LA PALMA AVE	62	2010	15	6 \$	418,559
001	0244	001	MAGNOLIA AVE	BALL RD	DS@733S BALL RD	62	2010	15	6 \$	271,031
001	0254	001	MEATS AVE	NOHL RANCH RD	DS@700S NOHL RANCH	83	2010	15	1 \$	70,621
001	0273	003	NOHL RANCH RD	DS@2500W ROYAL OAK	MEATS AVE	82	2010	19	1 \$	68,031
001	0289	001	ORANGETHORPE AVE	EAST END	IMPERIAL HWY	64	2010	05	6 \$	61,012
001	0290	001	ORANGETHORPE AVE	IMPERIAL HWY	KELLOGG DR	84	2010	05	1 \$	578,208
001	0294	001	ORANGETHORPE AVE	MILLER ST	KRAEMER BLVD	81	2010	05	2 \$	503,379
001	0295	002	ORANGETHORPE AVE	DS@1000W KRAEMER BL	WEST END	80	2010	05	2 \$	89,879
001	0305	001	ORANGEWOOD AVE	CLEMENTINE ST	DS@1300W	64	2010	15	6 \$	554,139

& - Some sections are undercut.

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FY 2006 PMS AHS

IMS Infrastructure
Management Services

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Zone	Strt.	Sub-strt.	Street	From	To	Rank	Year	Cat.	Str.	Cost
001	0321	002	RIVERDALE AVE	DS@2800W LAKEVIEW A	CLEMENTINE DS@3500W LAKEVIEW A	81	2010	19	2 \$	115,330
001	0324	001	RIVERDALE AVE	TUSTIN AVE	WEST END	62	2010	19	6 \$	185,840
001	0326	002	ROYAL OAK RD	DS@1900S SANTA ANA	NOHL RANCH RD	82	2010	19	4 \$	54,251
001	0327	001	SANTA ANA CANYON RD	EAST END	DS@4500W EAST END	84	2010	10	1 \$	643,147
001	0327	003	SANTA ANA CANYON RD	DS@5500W EAST END	DS@7700W EAST END	82	2010	10	2 \$	362,467
001	0327	004	SANTA ANA CANYON RD	DS@7700W EAST END	DS@8800W EAST END	83	2010	10	1 \$	158,637
001	0353	001	STATE COLLEGE BLVD	LA PALMA AVE	LINCOLN AVE	64	2010	15	6 \$	1,347,978
001	0356	001	STATE COLLEGE BLVD	SOUTH ST	WAGNER AVE	83	2010	15	2 \$	440,203
001	0361	001	STATE COLLEGE BLVD	GENE AUTRY WAY	ORANGEWOOD AVE	82	2010	05	1 \$	230,655
001	0396	001	WESTERN AVE	BALL RD	DS@500S BALL RD	82	2010	15	1 \$	48,930
2010 Year Total									\$	14,173,612

& - Some sections are undercut.

Management Report "PRG I \$14M Annual" Page: 10

FY 2006 PMS AHS

IMS Infrastructure
Management Services

Management Report "PRG I \$14M Annual"

Page: 11
December 14, 2006

Zone	Strt.	Sub-str.	Street	From	To	Rank	Year	Cat.	Str.	Cost
001	0007	001	ANAHEIM BLVD	LA PALMA AVE	LINCOLN AVE	67	2011	15	6 \$	1,402,379
001	0008	001	ANAHEIM BLVD	LINCOLN AVE	BROADWAY	67	2011	15	6 \$	542,553
001	0009	002	ANAHEIM BLVD	DS@3800S BROADWAY	BALL RD	67	2011	15	6 \$	920,491
001	0047	001	BROADWAY	MANCHESTER AVE	DS@1000W MANCHESTER	71	2011	15	6 \$	369,810
001	0051	001	BROADWAY	GILBERT ST	MAGNOLIA AVE	84	2011	15	2 \$	310,309
001	0064	001	BROOKHURST ST	CERRITOS AVE	DS@1367S CERRITOS A	83	2011	05	1 \$	172,678
001	0069	001	CERRITOS AVE	SUNKIST ST	DS@600W SUNKIST ST	83	2011	15	1 \$	61,440
001	0072	001	CERRITOS AVE	WALNUT ST	DS@4000W WALNUT ST	67	2011	15	6 \$	1,205,051
001	0073	001	CERRITOS AVE	EUCLID ST	NUTWOOD ST	67	2011	16	6 \$	1,045,916
001	0080	001	CLEMENTINE ST	MANCHESTER AVE	DISNEY WAY	84	2011	15	1 \$	92,846
001	0113	001	EUCLID ST	BALL RD	CERRITOS AVE	84	2011	15	2 \$	567,032
001	0116	001	EUCLID ST	ORANGEWOOD AVE	NORTH END	84	2011	15	2 \$	30,248
001	0120	001	FAIRMONT BLVD	SANTA ANA CANYON RD	CANYON RIM RD	87	2011	19	1 \$	638,918
001	0122	004	FRONTERA ST	DS@3300W GLASSELL S	RIO VISTA ST	81	2011	15	1 \$	234,879
001	0134	001	GILBERT ST	ORANGE AVE	DS@1594S ORANGE AVE	67	2011	25	6 \$	331,050
001	0152	001	HARBOR BLVD	ORANGEWOOD AVE	DS@600S ORANGEWOOD	67	2011	05	6 \$	342,506
001	0180	001	LA PALMA AVE	FAIRMONT BLVD	DS@3600W FAIRMONT B	86	2011	15	1 \$	406,776
001	0184	001	LA PALMA AVE	TUSTIN AVE	MILLER ST	84	2011	15	1 \$	495,298
001	0241	001	MAGNOLIA AVE	LINCOLN AVE	BROADWAY	67	2011	15	6 \$	456,906
001	0268	001	NINTH ST	ORANGEWOOD AVE	SOUTH END	67	2011	15	6 \$	97,464
001	0321	003	RIVERDALE AVE	DS@3500W LAKEVIEW A	BR@5384W LAKEVIEW A	83	2011	19	2 \$	327,421
001	0331	001	SANTA ANA CANYON RD	ANAHEIM HILLS RD	IMPERIAL HWY	84	2011	10	3 \$	185,109
001	0332	001	SANTA ANA CANYON RD	IMPERIAL HWY	ROYAL OAK RD	71	2011	10	6 \$	447,957
001	0346	001	SOUTH ST	BR@1233W RIO VISTA	BR@1466W RIO VISTA	82	2011	15	1 \$	3,559
001	0352	001	STATE COLLEGE BLVD	PLACENTIA AVE	LA PALMA AVE	67	2011	15	6 \$	691,062
001	0354	001	STATE COLLEGE BLVD	LINCOLN AVE	BROADWAY	64	2011	15	6 \$	222,705
001	0355	001	STATE COLLEGE BLVD	BROADWAY	SOUTH ST	67	2011	15	6 \$	1,184,729
001	0360	002	STATE COLLEGE BLVD	DS@1300S HOWELL AVE	GENE AUTRY WAY	64	2011	05	6 \$	674,855
001	0365	001	SUNKIST ST	SOUTH ST	DS@1300S SOUTH ST	64	2011	15	6 \$	471,767
001	0374	001	TUSTIN AVE	END BRIDGES	RIVERDALE AVE	86	2011	15	3 \$	54,577
001	0396	002	WESTERN AVE	DS@500S BALL RD	SOUTH END	84	2011	15	1 \$	96,811
001	0397	001	KATELLA AV	EAST CITY LIMIT	DOUGLASS RD	50	2011	05	6 \$	203,704

& - Some sections are undercut.

Management Report "PRG I \$14M Annual" Page: 11

Response to Comment Letter No. 4

Response to Comment No. 1

Comment identifies upcoming City of Anaheim activities within the areas of the Magnolia Trunk Rehabilitation (03-58) and Newhope-Placentia and Cypress Trunk Replacement (02-65) and a proposed railroad grade separation project on State College Boulevard, north of Katella Avenue. Comment requests coordination to consider schedule and compatibility.

Implementation of Mitigation Measures 3.11-7, 3.12-1e, and 3.12-1f would ensure that the Sanitation District coordinates with the City of Anaheim to consider schedule and compatibility with other projects already planned in the affected locations. This includes coordination with the City of Anaheim for activities associated with the Magnolia Trunk Rehabilitation (03-58) and Newhope-Placentia and Cypress Trunk Replacement (02-65) and for activities that could be affected by the proposed railroad grade separation project on State College Boulevard, north of Katella Avenue.

Response to Comment No. 2

Comment requests notification from the Sanitation District to City of Anaheim at least two years prior to construction of improvements associated with Magnolia Trunk Rehabilitation and Newhope-Placentia and Cypress Trunk Replacement projects.

Notification of the mentioned projects has occurred as part of the CEQA review process. As stated in Response to Comment No. 1, above, implementation of Mitigation Measures 3.11-7, 3.12-1e, and 3.12-1f would ensure that the Sanitation District coordinates with the City of Anaheim to consider schedule and compatibility with other projects already planned in the affected locations.

Page 2-7 of the Draft PEIR states that coordination with local and regulatory agencies takes place during the design phase as project information becomes available.

Comment Letter No. 5

Mr. Linder
April 30, 2007
Page 2



CITY OF COSTA MESA

P.O. BOX 1200 • 77 FAIR DRIVE • CALIFORNIA 92628-1200

DEVELOPMENT SERVICES DEPARTMENT

April 30, 2007

Orange County Sanitation District
Attn: Mr. John Linder
10844 Ellis Avenue
Fountain Valley, CA 92808

**SUBJECT: DRAFT PROGRAM ENVIRONMENTAL IMPACT REPORT FOR THE
ORANGE COUNTY SANITATION DISTRICT COLLECTION SYSTEM
IMPROVEMENT PLAN**

Dear Mr. Linder:

The City of Costa Mesa has reviewed the Draft Environmental Impact Report for the Orange County Sanitation District Collection Improvement Plan. The proposed project includes 19 collection system improvement projects to address existing and projected deficiencies in the regional truck sewer system and repairs, replacements, and minor modifications to collection system facilities. Following are the City's comments on the proposed improvement plan.

• **TRANSPORTATION/CIRCULATION**

The City of Costa Mesa recommends that the following be incorporated in the mitigation measures for projects in the City of Costa Mesa:

1. The City of Costa Mesa requests Orange County Sanitation District to schedule meetings with appropriate Public Services Department staff to further discuss projects within the City and determine schedule of upcoming roadway reconstruction projects, as mentioned in the Mitigation Measure 3.12-1f. 1
2. Some sections of Fairview Road and Pomona Avenue have been recently reconstructed and as such are under the City's "Open Cut Moratorium". All projects in these areas have to meet the requirements, parts of which are summarized below: 2

The Contractor shall restore the roadway surface within the work limits by slurry sealing the entire lane(s) where the trench is located.

Building Division (714) 754-5273 • Code Enforcement (714) 754-5823 • Planning Division (714) 754-5245
FAX (714) 754-4856 • TDD (714) 754-5264 • www.ci.costa-mesa.ca.us

Apr. 30 2007 03:25PM P2

FAX NO. : 714 754 4856

FROM : CITY OF COSTA MESA

Mr. Linder
 April 30, 2007
 Page 2

- For trenches perpendicular to traffic lanes: the slurry seal shall extend 50 feet on both sides of the trench and will include the entire travel lanes.
- For trenches parallel to traffic lanes and for small excavations: slurry seal the entire width of the traffic lane for the full length of the trench, but not less than 100 feet.

2
 (cont.)

Thank you for the opportunity to comment on the Draft Program Environmental Impact Report. The City of Costa Mesa is very interested in the Orange County Sanitation Districts Collection System Improvement Plan. We hope to continue to have close communication on this project and an opportunity to fully understand any significant impacts.

If you have any questions or need additional information, please contact me at (714) 754-5610.

Sincerely,



R. MICHAEL ROBINSON, AICP
 Assistant Dev. Svs. Director

cc: Donald D. Lamm, Deputy City Mgr., Dev. Svs. Director
 Kimberly Brandt, Principal Planner
 Peter Naghavi, Transportation Mgr.
 Raja Sethuraman, Assoc. Engineer
 Rebecca Robbins, Assistant Planner

Apr. 30 2007 03:26PM P2

FAX NO.: 714 754 4856

FROM: CITY OF COSTA MESA

Response to Comment Letter No. 5

Response to Comment No. 1

Comment requests that the Sanitation District schedule meetings with the City of Costa Mesa Public Services Department staff to further discuss projects within the City and determine schedule of upcoming roadway reconstruction projects.

Implementation of Mitigation Measure 3.12-1f would ensure that the Sanitation District schedules meetings with the City of Costa Mesa Public Services Department staff to attempt to coordinate construction schedules to occur jointly with other public works projects planned in affected locations.

Response to Comment No. 2

Comment specifies requirements for roadway restoration.

Implementation of Mitigation Measure 3.11-3c would ensure that projects meet the roadway restoration requirements of the City of Costa Mesa; particularly, requirements specific to sections of Fairview Road and Pomona Avenue.

Comment Letter No. 6



CITY of CYPRESS

5275 Orange Avenue, Cypress, California 90630

Phone 714-229-6700 www.ci.cypress.ca.us Fax 714-229-0154

April 3, 2007

Mr. John D. Linder
Engineering Manager
Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, CA 92708

Subject: DEIR – Collection System Improvement
Plan/Westside Relief Interceptor (03-55)

RECEIVED
2007 APR -6 AM 3:4
ENGINEERING

Dear Mr. Linder:

The City of Cypress has reviewed the above-referenced document and offers the following comments.

We have reviewed a printed copy of the document as the on line version could not be opened, nor was it located on your website in the manner your Notice of Availability stated it would be.

1

As for the content of the document itself, a number of issues require further discussion and resolution. The first is that the document says nothing regarding construction on private property – a condition which would be present in the City of Cypress.

2

As the attached illustration indicates, the proposed work area would result in a transition across four (4) single family residential properties within the city. No discussion in the mitigation measures is found regarding when construction activities will occur, how above ground improvements will be protected and/or replaced/restored if damaged, how foundations will be protected, how pedestrian and vehicular access to the homes will be maintained during construction, how long the construction period will last, and how vibration and construction activity will affect the structures themselves. A statement is made that trench, jack and bore methods will be used, but no discussion is made or an illustration shown as to where the staging and receiving pits would be sited in this single family neighborhood. Further, Appendix A indicates the entire area qualifies as a Sensitive Receptor, yet details on how noise will be precisely mitigated in this area are absent.

3

4

5

Phil Luebben, Mayor
Todd W. Seymore, Mayor Pro Tem Prakash Narain, M.D., Council Member
Leroy Mills, Council Member Doug Bailey, Council Member

The line next goes through Forest Lawn Cemetery – another Sensitive Receptor. There is also no discussion as to how (or if) these property owners have been made aware of these planned improvements. These above issues, collectively and individually, raise questions as to the legal and environmental adequacy of the document in its current draft form.

6

7

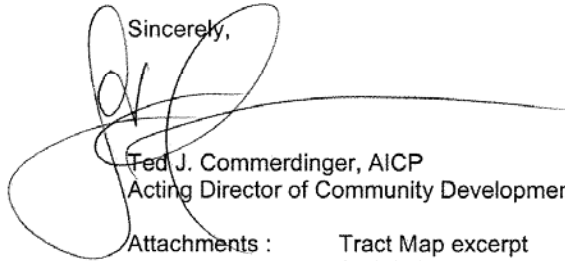
As for the work in the public right of way within the City of Cypress, your Mitigation Measures 3.8-1, 3.8-3, 3-9.2, and 3.12-1 all address impacts to our community in the areas of land use, noise and transportation respectively. The City of Cypress will require full compliance with all policies, ordinances and General Plan provisions in these areas, including but not limited to noise mitigation, hours of operation, dust mitigation, water quality, NPDES compliance and hazardous material use/containment/disposal.

8

9

I thank you for the opportunity to comment and look forward to your responses to these issues.

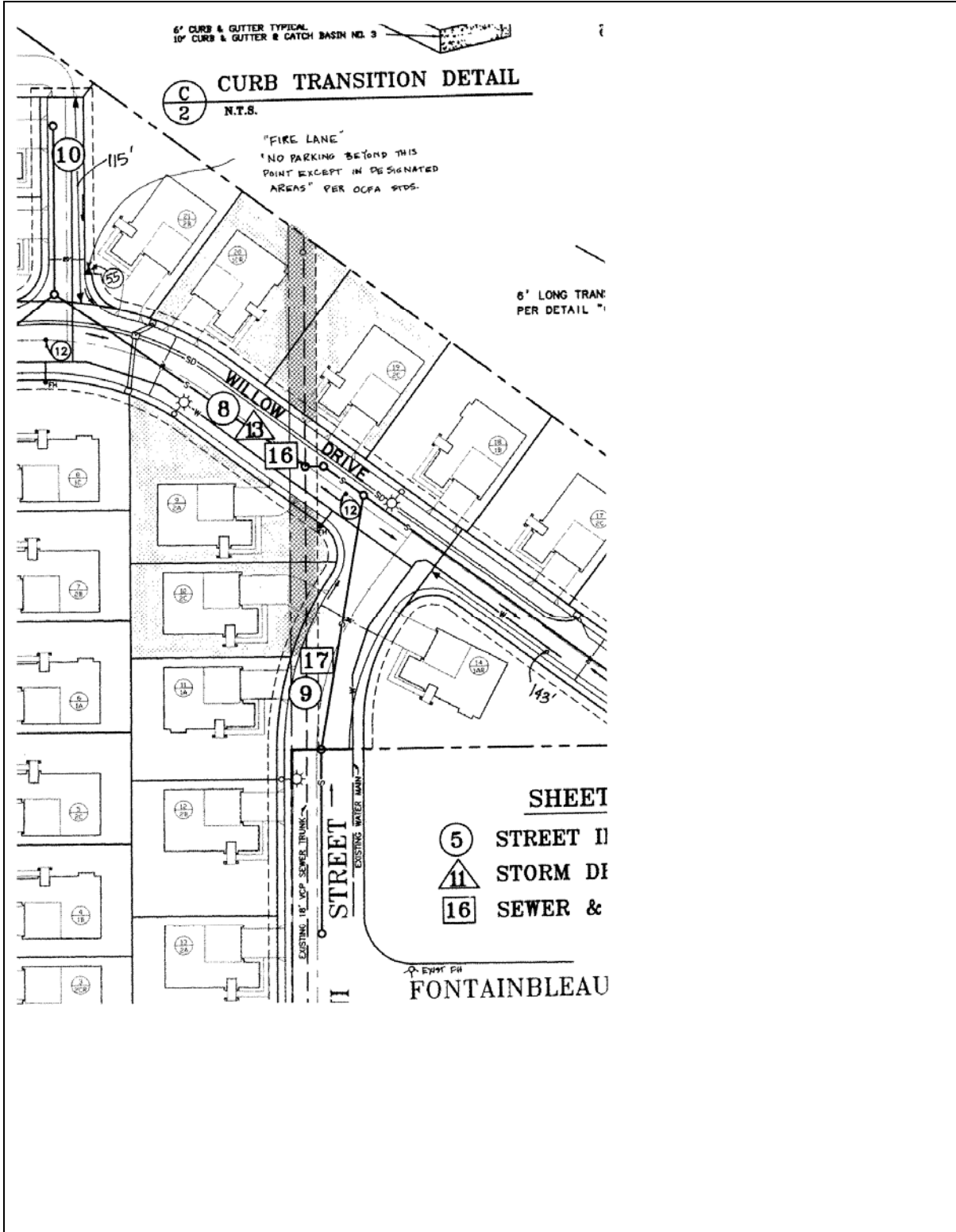
Sincerely,



Ted J. Commerdinger, AICP
Acting Director of Community Development

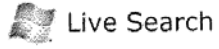
Attachments : Tract Map excerpt
Aerial photo

Cc: John B. Bahorski, City Manager
William Wynder, City Attorney
Doug Dancs, Director of Public Works



Live Search - Custom Print Options

Page 1 of 1



<http://local.live.com/PrintableMap.aspx?mkt=en-US>

4/3/2007

Response to Comment Letter No. 6

Response to Comment No. 1

Comment states that a printed copy of the document was reviewed because the online version could not be opened and was not located on the Sanitation District website as stated in the Notice of Availability.

Comment noted. Access to the online document has been made available on the Sanitation District website as stated in the Notice of Availability.

Response to Comment No. 2

Comment states that the proposed work area would result in transition across private property of four single family residential properties in the City of Cypress.

The Sanitation District has an easement to work on one of the four properties and is currently pursuing the acquisition of easements on the other properties. No construction would occur on these properties without prior issuance of right-of-way easements.

Response to Comment No. 3

Comment suggests that no discussion in the mitigation measures is found regarding when construction activities will occur, how above ground improvements will be protected, how pedestrian and vehicular access to the homes will be maintained during construction, how long the construction period will last, and how vibration and construction activity will affect the structures themselves.

Table 2-1, Proposed Collection System Improvements, identifies that implementation of the Westside Relief Interceptor Project would occur between 2011 and 2013. Mitigation Measure 3.8-3 ensures that steel trench plates would provide pedestrian and vehicular access across trenches. Mitigation Measure 3.11-3c ensures that disturbed areas along the alignment would be restored for aesthetic consistency and public safety as mutually agreed by the Sanitation District and local jurisdictions prior to construction. Mitigation Measures 3.9-1 and 3.9-2 would ensure that areas susceptible to groundborne vibration would be identified and that the effects would be minimized or mitigated appropriately.

Page 2-7 of the Draft PEIR states that during the design phase, site-specific information is collected, and project-level detail is developed.

Response to Comment No. 4

Comment states that a statement is made that trench, jack and bore methods will be used, but no discussion is made or an illustration shown as to where the staging and receiving pits would be sited in this single family neighborhood.

As stated on Page 2-16 of the Draft PEIR: For proposed installations, the Sanitation District would consider trenchless methods during the design phase of a project, as appropriate, based on site-specific information and project requirements.

Page 2-7 of the Draft PEIR states that during the design phase, site-specific information is collected, and project-level detail is developed.

Response to Comment No. 5

Comment suggests that Appendix A indicates that the entire area qualifies as a sensitive area and that no details on how noise will be mitigated in the area are included.

Appendix A does not indicate that this area qualifies as a sensitive receptor, although it does identify residential land use. Page 3-61 of the Draft PEIR states that noise-sensitive receptors in the Sanitation District service area include, but are not limited, to residential uses, schools, medical facilities, and nursing and convalescent homes. Mitigation Measures 3.9-1 and 3.9-2 would ensure that noise impacts would be mitigated in this area.

Response to Comment No. 6

Comment states that there is no discussion if property owners, including Forest Lawn Cemetery, have been made aware of planned improvements.

Notice of the Draft PEIR has been provided pursuant to Section 15087 of the CEQA Guidelines. Mitigation Measure 3.12-1j ensures that an effort will be made to solicit public input from residents in the neighborhoods of the proposed improvements; furthermore, the measure states that these inputs will be considered in the planning phase through construction to mitigate the resident's concerns. Mitigation Measure 3.8-1 ensures that notices of construction would be provided to adjacent property owners prior to initiating construction activities.

Response to Comment No. 7

Comment states that the issues identified within the letter, raise questions as to the legal and environmental adequacy of the document.

This Draft PEIR has been prepared in accordance with the California Environmental Quality Act (CEQA). CEQA requires every proposed project in the state of California to be examined for potential effects on the environment. Pursuant to Section 15168 of the State of California CEQA Guidelines, a PEIR is an Environmental Impact Report (EIR), which could be prepared on a series of actions that can be characterized as one large project and are related geographically as logical parts in the chain of contemplated actions; in connection with issuance of rules, regulations, plans, or other general criteria to govern the conduct of a continuing program; or, as individual activities carried out under the same authorizing statutory or regulatory authority and having generally similar environmental effects that can be mitigated in similar ways. Additionally, a PEIR allows the lead agency to consider broad policy alternatives and program-wide mitigation measures at an early time when the agency has greater flexibility to deal with basic problems or cumulative impacts.

Page 2-8 of the Draft PEIR states that further environmental review and documentation of the proposed improvements would occur during design of specific projects, as appropriate.

Response to Comment No. 8

Comment states that Mitigation Measures 3.8-1, 3.8-3, 3.9-2, and 3.12-1 address impacts to land use, noise, and transportation, associated with work within the public right of way in the City of Cypress.

Comment noted.

Response to Comment No. 9

Comment states that the City of Cypress will require full compliance with all policies, ordinances, and General Plan provisions.

Comment noted.

Comment Letter No. 7



CITY OF FOUNTAIN VALLEY

10200 SLATER AVENUE • FOUNTAIN VALLEY, CA 92708-4716 • (714) 593-4400, FAX: (714) 593-4498

March 26, 2007

Mr. John Linder
Engineering Manager
Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, CA 92708

RECEIVED
2007 APR -3 AM 3:31
ENGINEERING

SUBJECT: Collection System Improvement Plan

Dear Mr. Linder:

The City of Fountain Valley appreciates the opportunity to review and comment on the Notice of Preparation for the subject project. The City has concerns regarding the following matter:

- Impacts to traffic, roadway conditions, and infrastructure related to proposed Collection System Improvements on Euclid Street, Magnolia Street, and any other street that may be affected by the proposed CIP especially CIP Nos. 01-17, 02-52, and 03-58.

1

The City looks forward to a complete address of the above concern in the final EIR.

Very truly yours,

CITY OF FOUNTAIN VALLEY

Mark Lewis
Director of Public Works/City Engineer

ML:gr

c: Planning Director
City Manager

Response to Comment Letter No. 7

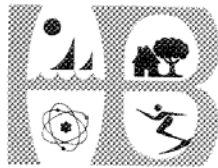
Response to Comment No. 1

The comment identifies the concern of the City of Fountain Valley regarding impacts to traffic, roadway conditions, and infrastructure related to proposed Collection System improvements on Euclid Street, Magnolia Street, and any other street that may be affected.

Potential impacts to traffic, roadway conditions, and infrastructure related to the proposed Collection System Improvement Plan were evaluated at a Program level in the Draft PEIR (pursuant to Section 15168 of the State of California CEQA Guidelines). Implementation of Mitigation Measures 3.11-7, 3.12-1e, and 3.12-1f would ensure that the Sanitation District coordinates with the City of Fountain Valley to consider schedule and compatibility with other projects already planned in the affected locations. Implementation of Mitigation Measure 3.11-3c would ensure that projects meet the roadway restoration requirements of the City of Fountain Valley. Mitigation Measure 3.11-6a ensures that potential impacts to City of Fountain Valley infrastructure would be minimized or mitigated. Mitigation Measure 3.12-1c ensures that encroachment permits for all work within public rights-of-way would be obtained from each appropriate agency prior to commencement of any construction.

As stated on Page 2-8 of the Draft PEIR: Because site-specific information and technical data for the proposed improvements are limited at this time, the analysis in the PEIR is based on planning-level information, and various assumptions are outlined. Further environmental review and documentation of proposed improvements would occur during design of specific projects, as appropriate.

Comment Letter No. 8



City of Huntington Beach

2000 MAIN STREET

CALIFORNIA 92648

DEPARTMENT OF PLANNING

Phone 536-5271
Fax 374-1540

April 24, 2007

John Linder
Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, CA 92708

RECEIVED
2007 APR 30 PM 1:43
ENGINEERING

Subject: Notice of Availability of Draft Program EIR for Orange County Sanitation District (Collection System Improvement Plan)

Dear Mr. Linder:

The City of Huntington Beach has reviewed the Draft Program Environmental Impact Report (DPEIR) for the proposed OCSD Collection System Improvement Plan. The City of Huntington Beach has the following comments and requests that these issues be addressed in the Final Program Environmental Impact Report (EIR) that will be prepared for this project.

Chapter 1.0 Introduction

- Table 1.1 Permits or Approvals: For work within Huntington Beach or any work that affects traffic control in the City of Huntington Beach, an encroachment permit shall be required. | 1

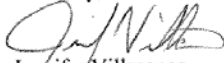
Chapter 3.0 Environmental Setting, Impacts and Mitigation Measures

- Impact 3.7-1: This impact should also include other construction related impacts from other sources of pollutants (i.e. – concrete, paints, solvents, etc.). | 2
- Mitigation Measure 3.7-1: The last sentence should be revised to read, “Monitoring and maintenance requirements will be specified in the SWPPP or SWPCP and at a minimum would include a frequency to maintain intended BMP efficiency.” | 3
- Mitigation Measure 3.7-2: This mitigation measure should include a comment regarding the proper storage and protection of fuels (i.e. – secondary containment). | 4

- Mitigation Measure 3.11-1: For work within the City of Huntington Beach, the Traffic Control Plan shall be submitted to the Huntington Beach Department of Public Works for review and approval. | 5
- Mitigation Measure 3.11-3a: See enclosed handout regarding steel plate specifications. | 6
- Mitigation Measure 3.11-5b: Haul routes for all work within the City of Huntington Beach shall be obtained by the contractor from the Huntington Beach Department of Public Works. | 7

Thank you for the opportunity to comment on the Draft Program Environmental Impact Report.

Sincerely,



Jennifer Villasenor
Associate Planner

Cc: Scott Hess, Planning Director
Mary Beth Broeren, Principal Planner

Edms: 0038

TEMPORARY STEEL PLATE BRIDGING

When backfilling operation of an excavation in the travel way, whether transverse or longitudinal cannot be properly completed within a work day, steel plate bridging with a nonskid surface and shoring may be required to preserve unobstructed traffic flow. In such cases, the following shall apply:

1. Steel plate used for bridging must extend a minimum of twelve (12") inches (300 mm) beyond the edge of the trench.
2. Steel plate bridging shall be installed to operate with minimum noise.
3. The trench shall be adequate to support the bridging and the traffic load. Contractor shall be responsible for determining whether shoring is necessary.
4. Temporary paving with cold asphalt concrete shall be used to feather the edges of the plate.
5. Bridging shall be secured against displacement by adjustable cleats, shims, or other devices.

Approaches plate and ending plate (if longitudinal placement) shall be attached to the roadway by a minimum of two (2) dowels pre-drilled into the corners of the plate and drilled two (2") inches (53 mm) into the pavement. **Subsequent plates are butted to each other.** Fine graded asphalt concrete shall be compacted to form ramps, maximum slope of 8.5% with a minimum of twelve (12") inches (300 mm) taper to cover all edges of the steel plates. When steel plates are removed, the dowel holes in the pavement shall be backfilled with either fines of asphalt concrete mix, concrete slurry or an equivalent slurry satisfactory to the Engineer.

The Contractor shall be responsible for maintenance of the steel plates, shoring, and asphalt concrete ramps.

Unless specified, use of steel plate bridging at any given location should not exceed four (4) consecutive working days in any given week. Upon approval of the engineer, trench plates need to be set flush with pavement and secured in place as noted above for any durations over (4) days or if more than 5 trench plates are needed. Backfilling of excavation shall be covered with a minimum of three (3") inches (78 mm) of temporary layer of cold asphalt concrete.

Response to Comment Letter No. 8

Response to Comment No. 1

Comment specifies that an encroachment permit would be required for work within Huntington Beach or any work that affects traffic control in the City of Huntington Beach.

Comment noted. Please refer to Section 3.0, Text Revisions, for revisions to Table 1.1.

Mitigation Measure 3.12-1c ensures that encroachment permits for all work within public rights-of-way would be obtained from each appropriate agency prior to commencement of any construction.

Response to Comment No. 2

Comment states that Impact 3.7-1 should also include construction related impacts from other sources of pollutants (i.e. concrete, paints, solvents, etc.)

The evaluation provided on Page 3-49 of the Draft PEIR states: Construction activities that involve soil disturbance, such as excavation, stockpiling, and grading, could result in increased stormwater erosion and sedimentation to surface waters. Additionally, use of heavy construction equipment could result in the addition of petroleum hydrocarbons, oils, and grease to stormwater flowing across areas of construction. Mitigation Measure 3.7-1 has been identified to reduce potential construction-related impacts to surface waters caused by stormwater, including sediment and other pollutants, to a level that is less than significant. This evaluation addresses the potential for construction related stormwater impacts other than erosion and siltation.

Response to Comment No. 3

Comment states that Mitigation Measure 3.7-1 should be revised to read “Monitoring and maintenance requirements will be specified in the Storm Water Pollution Prevention Plan (SWPPP) or Storm Water Pollution Control Plan (SWPCP) and at a minimum would include a frequency to maintain intended best management practice (BMP) efficiency.”

Monitoring and maintenance requirements will be specified in the SWPPP or SWPCP.

Response to Comment No. 4

Comment states that Mitigation Measure 3.7-2 should include a comment regarding the proper storage and protection of fuels (i.e. secondary containment).

Implementation of Mitigation Measure 3.6-2 would ensure that fuels and other hazardous materials would be stored properly.

Response to Comment No. 5

Comment requests that for work within the City of Huntington Beach, the Traffic Control Plan be submitted to the Huntington Beach Department of Public Works for review and approval.

Comment Noted. As stated in Mitigation Measure 3.12-1c, The Sanitation District will comply with the traffic control requirements, as identified by Caltrans and the affected local jurisdictions.

Response to Comment No. 6

Comment refers to an enclosed handout regarding steel plate specifications.

Mitigation Measure 3.11-3a ensures that if pipeline installation is incomplete, steel trench plates will be used to cover open trenches as appropriate for the specific site. Specific requirements for trenching and installation of steel plating, such as those provided by the City of Huntington Beach, would be determined per the agency of jurisdiction as part of traffic control and/or encroachment permit acquisition.

Mitigation Measure 3.12-1c ensures that encroachment permits for all work within public rights-of-way would be obtained from each appropriate agency prior to commencement of any construction. Mitigation Measure 3.8-3 ensures that steel trench plates would provide pedestrian and vehicular access across trenches. Mitigation Measure 3.11-3c ensures that disturbed areas along the alignment would be restored for aesthetic consistency and public safety as mutually agreed by the Sanitation District and local jurisdictions prior to construction. Mitigation Measure 3.12-1e ensures that public roadways will be restored to their existing condition after project construction is completed.

Response to Comment No. 7

Comment states that haul routes for all work within the City of Huntington Beach be obtained by the contractor from the Huntington Beach Department of Public Works.

The contractor will be required to use the haul routes identified in the Traffic Control Plan.

Insert Comment Letter No. 9



Community Development

RECEIVED

www.ci.irvine.ca.us

City of Irvine, One Civic Center Plaza, P.O. Box 19575, Irvine, California 92613-1575

CITY OF IRVINE 92613-1575

(949) 724-6000

ENGINEERING

April 27, 2007

Mr. John Linder
Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, CA 92708

SUBJECT: Review of Notice of Availability of a Draft Program Environmental Impact Report for the Orange County Sanitation District Collection System Improvement Plan

Dear Mr. Linder:

The City of Irvine has reviewed the notice of availability pertaining to the above referenced project and has the following comment:

1. Coordinate with David Mori of the Irvine Public Works Department to ensure that improvements to the regional collection system and Sanitation District repairs, replacements, and minor modifications will not negatively impact City of Irvine existing and proposed infrastructure and transportation improvements.

1

Thank you for the opportunity to review and comment on the proposed document. We would appreciate the opportunity to review any further information regarding this project as the planning process proceeds. If you have any questions, please contact me by telephone at (949) 724-6521 or by email at bjacobs@ci.irvine.ca.us.

Sincerely,

BILL JACOBS, AICP
Principal Planner

Copy: David Mori, Project Development Administrator

PRINTED ON RECYCLED PAPER

Response to Comment Letter No. 9

Response to Comment No. 1

Comment requests coordination with David Mori of the Irvine Public Works Department to ensure improvements do not negatively impact City of Irvine existing and proposed infrastructure and transportation improvements.

Comment noted. Implementation of Mitigation Measure 3.12-1f would ensure that the Sanitation District schedules meetings with the City of Irvine Public Works Department to attempt to coordinate construction schedules to occur jointly with other public works projects planned in affected locations.

Mitigation Measure 3.11-6a ensures that potential impacts to City of Irvine utility cables and pipes would be minimized or mitigated.

Comment Letter No. 10



April 11, 2007

Orange County Sanitation District
 Attn: John D. Linder
 10844 Ellis Avenue
 Fountain Valley, CA 92708

RECEIVED
 2007 APR 16 AM 9:28
 ENGINEERING

SUBJECT: City of Seal Beach Comments re: "Draft Program Environmental Impact Report for the Orange County Sanitation District Collection System Improvement Plan"

Dear Mr. Linder:

The Environmental Quality Control Board (EQCB) of the City of Seal Beach has reviewed the above referenced "Draft Program EIR." The City of Seal Beach wishes to note for the record that the previously proposed "service area annexations" to the Orange County Sanitation District, as set forth in the Notice of Preparation in October 2006, have been deleted from the current project description, and are no longer being considered.

1

The City also requests that OCSO conduct briefings with the Seal Beach Naval Weapons Station in a timely manner to allow the Navy to provide any additional comments and concerns regarding any future construction activities adjacent to the Weapons Station in order to ensure that the security concerns of the Navy are fully considered and implemented during any project construction activities adjacent to the Weapons Station.

2

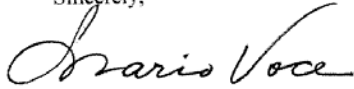
The EQCB considered and discussed the subject document on April 11, 2007, and authorized the Chairman to sign this letter indicating the official comments of the City of Seal Beach.

Thank you for your consideration of the comments of the City of Seal Beach. Please do not hesitate to contact Mr. Lee Whittenberg, Director of Development Services, City Hall, 211 Eighth Street, Seal Beach, 90740, by telephone at (562) 431-2527, extension 313, or by e-mail at lwhittenberg@ci.seal-beach.ca.us if you have any questions regarding this matter.

Z:\L Whittenberg\My Documents\CEQA\OCSO Collection System Plan DEIR, EQCB Letter.doc\LW\04-11-07

*City of Seal Beach Comment Letter re:
Draft Program EIR -
Collection System Improvement Plan
April 11, 2007*

Sincerely,



Mario Voce
Chairman, Environmental Quality Control Board
City of Seal Beach

Distribution:

Seal Beach Naval Weapons Station
Attn: Gregg Smith, Public Information Officer

Seal Beach City Council
Seal Beach Archaeological Advisory Committee

City Manager
Director of Development Services

Seal Beach Planning Commission

Response to Comment Letter No. 10

Response to Comment No. 1

Comment clarifies that service area annexations, as originally proposed in the Notice of Preparation (NOP), are no longer part of the project description.

Correct. As stated in Section 1.0, Introduction, on Page 1-1: The Plan no longer includes service area annexations as originally proposed in the NOP issued on October 2, 2006.

Response to Comment No. 2

Comment by the City of Seal Beach requests that the Sanitation district conduct briefings with the Seal Beach Naval Weapons Station.

Notice of the Draft PEIR has been provided pursuant to Section 15087 of the CEQA Guidelines. Implementation of Mitigation Measures 3.11-7, 3.12-1e, and 3.12-1f would ensure that the Sanitation District coordinates with the Seal Beach Naval Weapon Station to consider schedule and compatibility with other projects already planned in the affected locations.

Comment Letter No. 11



Community Development Department

RECEIVED

2007 APR 25 PM 12:18

City of Tustin

300 Centennial Way
Tustin, CA 92780
714.573.3100

April 19, 2007

John Linder
Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, CA 92708

**SUBJECT: NOTICE OF AVAILABILITY OF DRAFT PROGRAM ENVIRONMENTAL
IMPACT REPORT FOR THE COLLECTION SYSTEM IMPROVEMENT
PLAN**

Dear Mr. Linder:

Thank you for the opportunity to provide comments on the Draft Program Environmental Impact Report (DPEIR) for the Collection System Improvement Plan (Plan) involving nineteen (19) collection system improvement projects proposed to address existing and projected deficiencies in regional trunk sewer system and collection system facilities. The proposed plan is located within the Orange County Sanitation District (OCSD) service area and would occur over the next ten (10) years.

In recent months, City of Tustin staff has met with OCSD staff to discuss the OCSD sewer collection system. Through these meetings it has become apparent that the Plan is experiencing a high level of inflow and infiltration, which could be affecting the capacity of the sewer. Therefore, the City of Tustin recommends that the OCSD, prior to design and construction implementation activities for the Plan, consider the following:

1. Conduct further investigation and studies to reduce inflow and infiltration for the area to determine if this will eliminate the need for the Plan;
2. If the Plan is needed, the OCSD should reconfirm the hydraulic modeling assumptions and readjust the model, as necessary, prior to design; and
3. Meet with City of Tustin staff at the development stages of the Plan to ensure that all the reasonable range of options are explored with the Plan design.

A letter discussing the City of Tustin's review of the Notice of Preparation for the subject DPEIR was sent to the OCSD on October 18, 2006 in which concerns were expressed over the construction of the Browning Subtrunk Sewer Relief Project. Most of these concerns will be addressed through the process outlined above. It must be emphasized, however, that if the project is implemented, adjacent property owners and schools must be notified and the potential impacts of their daily operations must be

1

2

3

Mr. John Linder
NOA For DPEIR For Collection System Improvement Plan
April 19, 2007
Page 2

identified. A precise construction schedule must be provided to the City of Tustin and all interested parties when available.

4

Thank you again for the opportunity to provide comments on the NOA of DPEIR for the Collection System Improvement Plan. The City of Tustin would appreciate receiving all additional environmental documents with the responses to our comments when they become available.

If you have any questions regarding the City's comments, please call me at (714) 573-3016 or Dana R. Kasdan, Engineering Services Manager at (714) 573-3171.

Sincerely,



Scott Reekstin
Senior Planner

cc: Elizabeth A. Binsack, Community Development Director
Dana Kasdan, Engineering Services Manager
Douglas Holland, City Attorney

S:\Cdd\SCOTT\Environmental etciCollection System Improvement Plan NOA Comment Letter.DOC

Response to Comment Letter No. 11

Response to Comment No. 1

Comment recommends that the Sanitation District conduct further investigation and studies to reduce inflow and infiltration reconfirm the hydraulic modeling assumptions and readjust the model, and meet with the City of Tustin staff at the development to ensure that all the reasonable range of options are explored with the design.

In the normal course of business, the Sanitation District investigates alternatives which include measures for addressing infiltration and inflow. To reduce infiltration and inflow, storm drain improvements, sewer lining, manhole and lateral repair are often required. Such improvements have impacts similar to those described in the Draft PEIR for the Collection System Improvement Plan. The Sanitation District will work with the City of Tustin to develop a reasonable range of alternatives to provide sewer capacity based on hydraulic needs.

Response to Comment No. 2

Comment states that the City of Tustin submitted a letter that provided their review of the NOP, including concerns over the construction of the Browning Sewer Relief Project.

As stated in Section 1.4, Environmental Review Process, on Page 1-5, all comments that the Sanitation District received during the public comment period have been considered during preparation of this Draft PEIR.

Response to Comment No. 3

Comment specifies that adjacent property owners and schools be notified prior to implementation of a project.

Mitigation Measures 3.8-1 would ensure that adjacent property owners and schools would be notified prior to initiating construction activities.

Response to Comment No. 4

Comment requests a construction schedule be provided to the City of Tustin when available.

Comment noted. Construction schedules would be provided to the City of Tustin and other interested parties when available. Page 2-7 of the Draft PEIR states that coordination with local and regulatory agencies takes place during the design phase as project information becomes available.

Comment Letter No. 12



IRVINE RANCH WATER DISTRICT

15600 Sand Canyon Ave., P.O. Box 57000, Irvine, CA 92619-7000 (949) 453-5300

April 30, 2007

John Linder
Engineering Manager
10844 Ellis Avenue
Fountain Valley, CA 92708

Subject: Collection System Improvement Plan-Program Environmental Impact Report

Mr. John Linder:

Irvine Ranch Water District (IRWD) has received and reviewed the subject PEIR and offers the following comments.

IRWD owns and operates multiple facilities near the proposed project. In particular, a 12" potable water main is located at the Von Karman Trunk Sewer Relief (07-62) site in the City of Irvine. The project proponent will be responsible for protection in place, relocation, replacement, or repair of those facilities as affected by project impacts. At your earliest convenience, please contact Malcolm Cortez in Development Services at (949) 453-5551 to discuss plan submittal and review, to ensure that any facility concerns are addressed.

1

IRWD appreciates the opportunity to review and comment on the PEIR. Should you have any questions or require additional information, please call Natalie Likens, Engineering Technician, at (949) 453-5633.

Sincerely,

A handwritten signature in cursive script that reads "Natalie Likens".

Natalie Likens

0038347-5

Response to Comment Letter No. 12

Response to Comment No. 1

Comment specifies that the Sanitation District would be responsible for protection in place, relocation, replacement, or repair of facilities affected by project impacts, including the 12-inch potable water main located at the Von Karman Trunk Sewer Relief (07-62) site.

Comment also requests that the Sanitation District contact Malcolm Cortez in Development Services to ensure that any facility concerns are addressed.

Mitigation Measure 3.11-6a ensures that potential impacts to Irvine Ranch Water District facilities, including its 12-inch potable water main located at the Von Karman Trunk Sewer Relief (07-62) site, would be minimized or mitigated.

Implementation of Mitigation Measure 3.12-1f would ensure that the Sanitation District schedules meetings with the Irvine Ranch Water District.

3.0 Text Revisions

3.1 Introduction

The following corrections, revisions, and changes have been made to the Draft PEIR text. These corrections include: minor corrections made by the Draft PEIR authors to improve writing clarity, grammar, and consistency; corrections or clarifications requested by a specific commenter; or staff initiated text changes to update information presented in the Draft PEIR. The text revisions are organized by chapter and sections. Deleted text presented in this section indicates text that has been deleted from the Final PEIR. Text that has been added to the Final PEIR is presented as single underlined.

3.2 Text Revisions

Table ES-2, Page ES-14

In Table ES-2 on Page ES-14, Mitigation Measure 3.11-3c was incorrectly identified as Mitigation Measure 3.11-c. This has been corrected as follows:

Mitigation Measure 3.11-3c

Chapter 1, Table 1-1

In response to Comment No. 1 from the City of Huntington Beach, Table 1-1 has been revised:

TABLE 1-1
Permits or Approvals that Might be Required

Agency	Permit or Approval	Activity Requiring Permit or Approval
Local		
<u>Affected Jurisdiction (e.g. City or unincorporated Orange County)</u>	<u>Road Encroachment Permit</u>	<u>Work within public rights-of-way, including work that affects traffic control</u>
Resources and Development Management Department	Road Encroachment Permit, Flood Control Facility Permit, Harbors, Beaches, and Parks Encroachment Permit	Work within Orange County roads, flood control facilities, harbors, beaches, and parks
Orange County Transportation Authority (OCTA)	Construction Notification	Construction activities within local roadways
State		
Regional Water Quality Control Board (RWQCB), Santa Ana Region	401 Certification	Work within waters of the United States, including jurisdictional wetlands
RWQCB, Santa Ana Region	De Minimus NPDES Permit	Construction dewatering discharge

TABLE 1-1
Permits or Approvals that Might be Required

Agency	Permit or Approval	Activity Requiring Permit or Approval
State Water Resources Control Board (SWRCB), RWQCB, Santa Ana Region	NPDES General Construction Storm Water Permit and Storm Water Pollution Prevention Plan	Ground-disturbing activities 1-acre or more
California Department of Transportation (Caltrans)	Encroachment Permit	Work within Caltrans transportation facilities
California Public Utilities Commission (CPUC)	Minor Alteration to Existing Crossing (General Order 88A)	Work within existing public highway-rail crossings
California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR)	Notice of Intent to Abandon Well - Oil and Gas (Form OG108)	Oil and gas well abandonment
State Parks	Right of Way/Easement Across State Parklands	Facility installation within State parks
Federal		
United States Army Corps of Engineers (USACE)	404 Permit	Work within Waters of the United States, including Jurisdictional Wetlands
USACE	Right-of-Entry Permit	Work within USACE-owned property, including Fullerton Dam

Chapter 5, Noise, Page 5-6

The second sentence under the Noise subsection on page 5-6 has been revised:

Should construction of the reasonably foreseeable future projects also occur ~~at night~~ in the vicinity of and concurrent with construction of proposed collection system improvement projects, such projects would likely contribute to potentially significant cumulative noise impacts.

Mitigation Measure 3.2-2, Pages ES-5 and 3-13

Mitigation Measure 3.2-2, which is included on Pages ES-5 and 3-13, has been revised as follows:

Contractors will reduce fugitive dust emissions through the implementation of the following dust control measures:

- Cover all trucks hauling soil, sand, or other loose materials
- Apply water as necessary on all unpaved access roads, parking areas and staging areas at construction sites
- Sweep all paved access roads, parking areas, and staging areas at construction sites with ~~water~~ sweepers

- Water or apply nontoxic soil stabilizers to exposed soil stockpiles or areas disturbed by construction activities which produce dust
- Limit traffic speeds on unpaved roads to 15 mph

Mitigation Measure 3.12-1c, Pages ES-16 and 3-87

Mitigation Measure 3.12-1c, which is included on Pages ES-16 and 3-87, has been revised as follows:

Encroachment permits for all work within or adjacent to public rights-of-way will be obtained from each appropriate agency prior to commencement of any construction. Agencies could include Caltrans, RDMD, and the various city agencies where work will occur. The Sanitation District will comply with traffic control requirements, as identified by Caltrans and the affected local jurisdictions.

4.0 Mitigation Monitoring and Reporting Program

4.1 Background

Pursuant to the requirements of Public Resources Code Section 21081.6, when a governmental agency adopts findings incorporating measures to mitigate or avoid significant effects identified in an environmental impact report, the public agency shall also adopt a monitoring and reporting program for the changes made to the project or conditions of project approval. The MMRP shall be designed to ensure compliance during project implementation.

This MMRP has been prepared by the Orange County Sanitation District to meet the requirements for monitoring and reporting of the mitigation measures recommended in the PEIR for its proposed Collection System Improvement Plan (Plan).

4.2 Sanitation District Responsibility

The Sanitation District will be responsible for monitoring the performance and effectiveness of the mitigation measures recommended for the proposed collection system improvements. The Sanitation District will manage monitoring and reporting activities and incorporate any additional measures, or conditions of approval, that may be required by discretionary actions taken by federal, state, and local agencies. The Sanitation District will also be responsible for documenting that the required mitigation measures are implemented.

4.3 MMRP Process

Commencing upon Plan approval, project-specific mitigation measures will be implemented and monitoring activities will be performed to document compliance with the requirements for mitigation. Monitoring is an ongoing process of project oversight and will continue through implementation of the Plan, including design and construction of collection system improvements, and subsequent operation of the collection system. The MMRP identifies the mitigation measures, reporting requirements, monitoring time frame, specific compliance criteria, and reporting mechanism. Compliance criteria include monitoring frequency, identification of the monitoring agency, and a list of any agency that may receive periodic activity reports.

4.3.1 MMRP Organization

The MMRP is organized in table format, by each potentially significant impact and corresponding mitigation measures, and is included as Appendix A. The potentially significant impacts and mitigation measures summarized in the table are coded by the alphanumeric identification consistent with the PEIR.

The following components are included in a matrix format:

- **Implementation Procedure:** This column provides additional information on how the mitigation measures will be implemented. This column is blank if no further information is necessary.
- **Actions:** This column outlines the appropriate monitoring and reporting actions required to verify implementation of the mitigation measure.
- **Responsibility:** This column assigns responsibility for the monitoring and reporting activities.
- **Schedule:** This column includes the general schedule for conducting monitoring and reporting activities and identifies both the timing and frequency of the action. The schedule milestones used for this column include:
 - During design
 - Prior to approval of plans and specifications
 - Prior to commencement of construction activities
 - During construction
 - After construction

4.3.2 Public Access to Records

The Sanitation District has developed a filing and tracking system to ensure that all monitoring aspects of the Plan are complied with during the life of the Plan. The public may request records including reports used by the Sanitation District to track the monitoring program.

Appendix A
Mitigation Monitoring and Reporting Program
for the Collection System Improvement Plan

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Air Quality

Impact 3.2-1: Construction activities would Generate NO_x emissions in exceedence of the daily significance thresholds resulting in a short-term impact to air quality. Significant Unavoidable.

Mitigation Measure 3.2-1a: Contractors will maintain equipment engines in proper tune and operate construction equipment so as to minimize exhaust emissions.

Mitigation Measure 3.2-1b: During construction, trucks and vehicles in loading or unloading queues will keep engines off, when not in use, to reduce vehicle emissions.

Implementation Procedure	Actions	Responsibility	Schedule
1. Include construction equipment exhaust minimization and vehicle emissions reduction mitigation measures in contract specifications.	Maintain record of contract specifications to verify adherence to mitigation measures.	Sanitation District	During Design.
2. Conduct periodic site inspections to verify adherence to mitigation measures.	Maintain record of site inspection to verify adherence to mitigation measures.	Sanitation District	During Construction.

Impact 3.2-2: Construction activities would produce fugitive dust emissions resulting in a short-term impact to air quality. Less Than Significant With Mitigation.

Mitigation Measure 3.2-2: Contractors will reduce fugitive dust emissions through implementation of the following dust control measures:

- Cover all trucks hauling soil, sand, or other loose materials
- Apply water as necessary on all unpaved access roads, parking areas, and staging areas at construction sites
- Sweep all paved access roads, parking areas, and staging areas at construction sites with sweepers
- Water or apply nontoxic soil stabilizers to exposed soil stockpiles or areas disturbed by construction activities which produce dust
- Limit traffic speeds on unpaved roads to 15 mph

Implementation Procedure	Actions	Responsibility	Schedule
1. Include fugitive dust control measures in contract specifications.	Maintain record of contract specifications to verify adherence to mitigation measures.	Sanitation District	During Design.
2. Conduct periodic site inspections to verify adherence to mitigation measures.	Maintain record of site inspection to verify adherence to mitigation measures.	Sanitation District	During Construction.

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Biological Resources

Impact 3.3-1: Areas of natural habitat within the footprint of proposed activities could impact special-status biological resources. Less Than Significant With Mitigation.

Mitigation Measure 3.3-1: Evaluation of impacts to special-status plants, birds, mammals, and amphibians and reptiles will occur at the project level. Specifically, all areas of natural habitat within the footprint of proposed construction activities with potential to support special-status biological resources will be surveyed according to standard protocol. Where special-status biological resources are identified within the project footprint, appropriate avoidance, minimization, and mitigation measures will be implemented. Depending on the special-status biological resources present, measures could include the following:

Where rare plants are identified within the project footprint, the following avoidance, minimization, and mitigation measures will be implemented:

- Project design will be evaluated to determine if an exclusionary zone can be established around rare plant populations; where feasible, this will be implemented, and construction activities will be relocated or modified to avoid impact.
- If rare plant populations cannot be avoided, appropriate salvage of plant propagules will be implemented, and suitable habitats for transplanting or re-establishing population will be identified and implemented.
- Mitigation will include an analysis of suitability of alternative locations and identification of suitable propagation techniques.
- Procurement of conservation easements will be implemented for alternative suitable habitats if the habitats are not already secured with conservation status.

Where special-status nesting birds are identified within the project footprint, the following avoidance, minimization, and mitigation measures will be implemented:

- Project design will be evaluated to determine if a 500-foot minimum exclusionary zone can be established around active bird nests; where feasible, this will be implemented, and construction activities will be relocated or modified to avoid impact.
- If nesting birds or active nest sites cannot be avoided, construction will be timed to avoid the active nesting season (February to August), and construction activities will not commence in the vicinity of nests until young have fledged.

Where special-status mammals or bat roosts are identified within the project footprint, the following avoidance, minimization, and mitigation measures will be implemented:

- Project design will be evaluated to determine if a 500-foot minimum exclusionary zone can be established around active bat roosts; where feasible, this will be implemented, and construction activities will be relocated or modified to avoid impact.
- Project design will be evaluated to determine if direct impacts to habitats supporting small mammals can be avoided with an exclusionary zone; where feasible, this will be implemented, and construction activities will be relocated or modified to avoid impact.
- Where avoidance is not feasible, trapping or hazing of special-status mammals to remove them from the project site will be implemented, and individuals will be relocated to suitable habitat nearby; temporary fencing will be installed to prohibit species from returning to the construction zone.
- If construction adjacent to bat roosts cannot be avoided, construction will be timed to avoid the parturition period (February to August), and construction activities will not commence in the vicinity of maternity roosts until young are weaned.

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

- If construction must occur during the parturition period, then active bat roosts will be excluded prior to onset of breeding.

Where special-status amphibians and reptiles are identified within the project footprint, the following avoidance, minimization, and mitigation measures will be implemented:

- Project design will be evaluated to determine if direct impacts to habitats supporting amphibians or reptiles can be avoided with an exclusionary zone; where feasible, this will be implemented, and construction activities will be relocated or modified to avoid impact.
- Where avoidance is not feasible, trapping or hazing of special-status amphibians or reptiles to remove them from the project site will be implemented, and individuals will be relocated to suitable habitat nearby; temporary fencing will be installed to prohibit species from returning to the construction zone.

Implementation Procedure	Actions	Responsibility	Schedule
1. Conduct biological surveys of all areas of natural habitat within the Project area.	Maintain biological survey reports for administrative record.	Sanitation District, California Department of Fish and Game (CDFG), U.S. Fish and Wildlife Service (USFWS)	During Design.
2. Include any requirements in contract specifications (if needed). Include necessary actions to address potential for encountering biological resources.	Maintain record of contract specifications for administrative record.	Sanitation District	During Design.
3. Implement above stated mitigation measures (if needed).	Document implementation of mitigation measures for administrative record.	Sanitation District	During Design. During Construction.
4. Conduct periodic site inspections to verify adherence to mitigation measures.	Maintain record of site inspections.	Sanitation District, CDFG, USFWS	During Construction.
5. For unplanned encounters with biological resources, contact a qualified biologist and implement mitigation as appropriate.	Document implementation of mitigation.	Sanitation District, CDFG, USFWS	During Construction.

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Impact 3.3-2: Runoff from construction activities could impact aquatic fisheries. Less Than Significant With Mitigation.

Mitigation Measure 3.3-2: To avoid impacts to aquatic fisheries, best management practices will be implemented to avoid contaminant runoff from construction practices. This will include the following:

- Equipment will not be operated in areas of ponded or flowing water. Stationary equipment such as motors, pumps, generators, and welders will be located a minimum of 200 feet outside aquatic and wetland habitats; construction staging areas, stockpiling, and equipment storage will be located a minimum of 200 feet outside aquatic and wetland habitats.
- Construction vehicles and equipment will be checked periodically to ensure that proper working conditions with no potential for fugitive emissions of oil and other hazardous products exists. Refueling or lubrication of vehicles and cleaning of equipment, or other activities that involve open use of fuels, lubricants, or solvents, will occur in upland locations at least 200 feet away from aquatic or wetland habitats.
- Temporary sediment-retention structures, hay bales, or silt fencing will be placed downstream of construction areas; sediment-retention devices will prevent sediment-laden water from draining offsite; sediment-retention devices structures will be maintained and repaired after flood events.

Implementation Procedure	Actions	Responsibility	Schedule
1. Include best management practices and requirements in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District, U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), CDFG	Prior to Approval of Plans and Specifications.
2. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District, USACE, RWQCB, CDFG	During Construction.

Impact 3.3-3: Project activities within jurisdictional areas, including wetlands, would result in impacts to biological resources. Less Than Significant With Mitigation.

Mitigation Measure 3.3-3: Direct impacts to jurisdictional areas including wetlands generally will be avoided by identifying these communities at the project analysis level and designing project components to avoid these areas. However, if impacts to jurisdictional wetlands cannot be avoided, then the following mitigation will be implemented:

- Delineation of affected jurisdictional sites will be implemented and impacts analyzed; this information will support permit applications to the U.S. Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act.
- A proposed mitigation plan to compensate for impacts to jurisdictional areas will be developed and approved by the USACE; it will be implemented to compensate for impacts.
- To avoid indirect impacts to jurisdictional areas from contaminant runoff, Mitigation Measure 3.3-2 will be implemented.

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Implementation Procedure	Actions	Responsibility	Schedule
1. Complete jurisdictional delineation of waters and/or wetlands.	Maintain record of jurisdictional delineation for administrative record.	Sanitation District, USACE, RWQCB, CDFG	During Design.
2. Acquire above stated permit if activities will occur within jurisdictional waters or wetlands.	Maintain record of permit for administrative record.	Sanitation District, USACE, RWQCB, CDFG	Prior to Commencement of Construction Activities.
3. Include requirement for permit compliance in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	During Construction.
4. Implement compensatory mitigation.	Maintain record of compensatory mitigation.	Sanitation District, USACE, RWQCB, CDFG	After Construction.

Cultural Resources

Impact 3.4-1: Project activities could affect known, significant archaeological, paleontological, and historical resources. Less Than Significant With Mitigation.

Mitigation Measure 3.4-1: During preliminary design a Registered Professional Archaeologist (RPA) will complete a literature review using the archives of the South Central Coastal Information Center of the California Historical Resources Information System (CHRIS), located at California State University Fullerton, and other sources as needed to identify previous cultural resources studies and previously recorded archaeological sites within close proximity to the project alignment. The literature search will also include a search of the Sacred Lands Database maintained by the California Native American Heritage Commission (NAHC).

Using the results of the literature review in part, the archaeologist will develop a cultural resources sensitivity map for the project alignment, followed by a determination of specific areas of the project that may require preconstruction survey, subsurface testing, or construction monitoring. Cultural resources identified as a result of the literature review, field survey, testing, or construction monitoring will be evaluated by a Registered Professional Archaeologist to determine whether they meet the criteria for designation as a historical resource (14 CCR § 4850, PRC § 21084.1, 14 CCR § 15064.5(3)) or a "unique archeological resource" as defined in PRC § 21083.2. If resources are present on state lands, Office of Historic Preservation (OHP) will be consulted (PRC § 21083.2).

For sites within project alignment where human remains have been previously documented, the Sanitation District would enter into a written agreement between an archaeological consultant, to be retained by the Sanitation District, and a Native American representative prior to construction in the vicinity of these sites. This agreement would specify terms as to the treatment and disposition of the human remains, and will define "associated burial goods" with reference to PRC § 5097.94, 5097.98, and 5097.99 and Health and Safety Code § 7050.5.

Implementation Procedure	Actions	Responsibility	Schedule
1. RPA completes record search and develops sensitivity map.	Retain record search and sensitivity map.	Sanitation District, CHRIS, NAHC	During Design.
2. Conduct preconstruction survey/ subsurface testing (if needed).	Maintain record of preconstruction survey/subsurface testing.	Sanitation District	During Design.

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

3. Include any requirements in contract specifications (if needed).	Monitor compliance with construction contract specifications.	Sanitation District	Prior to Approval of Plans and Specifications.
4. Consult with OHP (if needed).	Document consultation with OHP.	Sanitation District, OHP	During Design.
5. Conduct construction monitoring (if needed).	Maintain record of construction oversight for administrative record.	Sanitation District	During Construction.
6. Enter agreement with archaeological consultant and Native American representative (if needed).	Retain agreement.	Sanitation District, Native American representative	Prior to Commencement of Construction Activities.

Impact 3.4-2: Construction excavation could expose, encounter, or accidentally discover cultural resources, including buried human remains. Less Than Significant With Mitigation.

Mitigation Measure 3.4-2a: Subsurface construction has the potential for exposing significant subsurface cultural resources. Due to the likelihood of encountering cultural resources, the Sanitation District will implement the following prior to commencement of construction activities:

- Prior to construction, contractors, and Sanitation District staff will receive an archaeological orientation from a professional archaeologist regarding the types of resources that could be uncovered during construction activities and the identification of these resources. The orientation also will cover procedures to follow in the case of any archaeological discovery.

Mitigation Measure 3.4-2b: If cultural resources are encountered at any time during project excavation, construction personnel will avoid altering these materials and their context until a qualified archaeologist has evaluated the situation. Project personnel will not collect or retain cultural resources. Prehistoric resources include, but are not limited to, chert or obsidian flakes, projectile points, mortars and pestles, dark friable soil containing shell and bone, dietary debris, heat-affected rock, or human burials. Historic resources include stone or adobe foundations or walls; structures and remains with square nails, and refuse deposits (glass, metal, wood, ceramics) often found in old wells and privies.

Mitigation Measure 3.4-2c: In the event accidental discovery or recognition of any human remains, the county coroner will be notified immediately, and construction activities will be halted. If the remains are found to be Native American, the Native American Heritage Commission will be notified within 24 hours. Guidelines of the Native American Heritage Commission will be adhered to in the treatment and disposition of the remains.

Implementation Procedure	Actions	Responsibility	Schedule
1. Conduct archaeological orientation from a professional archaeologist.	Document completion of archaeological orientation for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
2. Include necessary actions in contract specifications to address potential for encountering cultural resources and/or human remains.	Maintain record of contract specifications, including geotechnical evaluation for administrative record.	Sanitation District, NAHC, County Coroner	During Design.
3. In the event of accidental discovery of buried human remains, implement Mitigation Measure 3.4-2c.	Stop work and notify county coroner, archaeologist, and NAHC.	Sanitation District, NAHC, County Coroner	During Construction.

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Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Geology and Soils

Impact 3.5-1: Project facilities would be located in areas susceptible to seismicity and groundshaking. Less Than Significant With Mitigation.

Mitigation Measure 3.5-1: The Sanitation District will design and construct new facilities in accordance with Sanitation District standards and/or applicable building codes.

Implementation Procedure	Actions	Responsibility	Schedule
1. Conduct design level geotechnical evaluations and include in contract specifications.	Maintain record of contract specifications, including geotechnical evaluation for administrative record.	Sanitation District	During Design.
2. Require compliance with Sanitation District standards and/or applicable building codes in contract specifications.	Maintain record of contract specifications, including geotechnical evaluation for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
3. Construct facilities according to contract specifications.	Maintain record of inspections as appropriate.	Sanitation District	During Construction.

Impact 3.5-2: Project facilities could be placed in areas with the potential for liquefaction. Less Than Significant With Mitigation.

Mitigation Measure 3.5-2: Soil surveys will be conducted to determine the liquefaction potential along the collection system improvement routes. Pipelines will be installed within consolidated, engineered backfill.

Implementation Procedure	Actions	Responsibility	Schedule
1. Conduct design level geotechnical evaluations and include in contract specifications.	Maintain record of contract specifications, including geotechnical evaluation for administrative record.	Sanitation District	During Design.
2. Include requirement for pipelines to be installed within consolidated, engineered backfill, in contract specifications.	Maintain record of contract specifications, including geotechnical evaluation for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
3. Construct facilities according to contract specifications.	Maintain record of inspections as appropriate.	Sanitation District	During Construction.

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Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Impact 3.5-3: Project facilities could be placed in soils susceptible to settlement. Less Than Significant With Mitigation.

Mitigation Measure 3.5-3: Areas of peat bogs will be consolidated before construction or peat material will be removed prior to construction. Pipelines will be installed within consolidated, engineered backfill.

Implementation Procedure	Actions	Responsibility	Schedule
1. Conduct design level geotechnical evaluations and include in contract specifications.	Maintain record of contract specifications, including geotechnical evaluation for administrative record.	Sanitation District	During Design.
2. Include requirement for pipelines to be installed within consolidated, engineered backfill, in contract specifications.	Maintain record of contract specifications, including geotechnical evaluation for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
3. Construct facilities according to contract specifications.	Maintain record of inspections as appropriate.	Sanitation District	During Construction.

Hazards and Hazardous Materials

Impact 3.6-1: Transportation of hazardous materials associated with Project activities could result in a hazards and hazardous materials related impact. Less Than Significant With Mitigation.

Mitigation Measure 3.6-1: Transportation of hazardous materials will be in accordance with all federal, state, and local regulations.

Implementation Procedure	Actions	Responsibility	Schedule
1. Include requirements for hazardous materials transportation in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.

Impact 3.6-2: Storage of hazardous materials associated with Project activities could result in a hazards and hazardous materials related impact. Less Than Significant With Mitigation.

Mitigation Measure 3.6-2: Prior to storage of hazardous materials, a Hazardous Materials Inventory and Business Emergency Plan will be filed with the Orange County Fire Authority.

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Implementation Procedure		Actions	Responsibility	Schedule
1. Include requirement for completing Hazardous Materials Inventory and Business Emergency Plan in contract specifications.		Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
<p>Impact 3.6-3: Accidental spill of hazardous materials associated with Project activities could result in a hazards and hazardous materials related impact. Less Than Significant With Mitigation.</p> <p>Mitigation Measure 3.6-3: In the event of an accidental spill, containment and cleanup will occur in conformance with the spill response and waste disposal procedures identified in the Material Safety Data Sheets (MSDS) and in the Business Emergency Plan.</p>				
Implementation Procedure		Actions	Responsibility	Schedule
1. Include requirement for spill containment and cleanup in contract specifications.		Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
<p>Impact 3.6-4: Improper disposal of hazardous materials could result in a hazards and hazardous materials related impact. Less Than Significant With Mitigation.</p> <p>Mitigation Measure 3.6-4: Disposal of hazardous waste generated as part of construction or operation activities will occur at a properly permitted facility in accordance with federal and state laws.</p>				
Implementation Procedure		Actions	Responsibility	Schedule
1. Include requirements for disposal of hazardous waste in contract specifications.		Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
<p>Impact 3.6-5: Improperly abandoned oil wells may exist within excavation alignments. Less Than Significant With Mitigation.</p> <p>Mitigation Measure 3.6-5a: Prior to construction, the Sanitation District will identify existing and abandoned oil production wells within the project area using California Department of Conservation, California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), District 1 well location maps. Access to identified non-abandoned oil wells will be maintained. Previously abandoned wells identified beneath proposed structures or utility corridors may need to be plugged to current DOGGR specifications including adequate gas venting systems.</p> <p>Mitigation Measure 3.6-5b: Should construction activities uncover previously unidentified oil production wells, the DOGGR will be notified, and the well will be abandoned following DOGGR specifications for well abandonment.</p>				
Implementation Procedure		Actions	Responsibility	Schedule
1. Include in contract specifications.		Maintain record of contract specifications for administrative record.	Sanitation District, DOGGR	Prior to Construction.
2. Construct facilities according to contract specifications.		Maintain record of inspections as appropriate.	Sanitation District	During Construction.

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Impact 3.6-6: Construction activities could encounter areas of contamination, including contamination associated with leaking underground storage tanks. Less Than Significant With Mitigation.

Mitigation Measure 3.6-6: During project design, a database screening would be completed for listing of all known contamination sites, including contamination associated with leaking underground storage tanks. Additionally, soils sampling would be completed for the presence of total recoverable petroleum hydrocarbons (TRPH), volatile organics, and metals. In the event of suspected contamination from adjacent land uses, soil sampling would be completed to verify hazardous substances. Under the Sanitation District’s standard construction specifications, the Sanitation District and its contractors would comply with all applicable regulatory requirements for the assessment, testing, remediation, removal, and disposal of hazardous wastes/materials.

Implementation Procedure	Actions	Responsibility	Schedule
1. Complete database screening.	Maintain record of database screening.	Sanitation District	During Design.
2. Complete soil sampling for TRPH.	Maintain record of soil sampling.	Sanitation District	During Design.
3. Include requirements for assessment, testing, remediation removal, and disposal (if applicable), in the contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	During Design. During Construction.
4. Construct facilities according to contract specifications.	Maintain record of inspections as appropriate.	Sanitation District	During Construction.

Hydrology and Water Quality

Impact 3.7-1: Construction activities could result in erosion and siltation related stormwater impacts to surface water quality. Less Than Significant With Mitigation.

Mitigation Measure 3.7-1: Prior to the initiation of ground-disturbing activities for sewer improvements with surface disturbances of 1 acre or more, the Sanitation District (or its designee) will obtain approval from the State Water Resources Control Board (State Board) under the National Pollutant Discharge Elimination System (NPDES) General Permit for Discharges of Storm Water Associated with Construction Activity (General Permit). This includes submitting a Notice of Intent (NOI) to the State Board and developing and implementing a Storm Water Pollution Prevention Plan (SWPPP). For sewer improvements with less than 1 acre of surface disturbances, the Sanitation District (or its designee) will develop and implement a Stormwater Pollution Control Plan (SWPCP) prior to initiating ground-disturbing activities. The SWPPP or SWPCP will identify potential sources of sediment and other pollutants that could affect the quality of the stormwater discharge, and will specify best management practices (BMPs) to prevent or minimize the introduction of sediment and pollutants into surface waters from a construction site. BMP methods of erosion and sediment control might include straw bales, silt fences, and other control techniques. Monitoring and maintenance requirements will be specified in the SWPPP or SWPCP.

Implementation Procedure	Actions	Responsibility	Schedule
1. Include requirement for stormwater permit in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
2. Include requirement for SWPPP or SWPCP in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

3. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District, SWRCB, RWQCB	During Construction.
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Impact 3.7-2: Project activities within jurisdictional areas, including wetlands, would result in impacts to biological resources. Construction activities could also result in impacts to jurisdictional areas associated with equipment refueling and vehicle use. Less Than Significant With Mitigation.

Mitigation Measure 3.7-2: Prior to initiating activities within Waters of the United States, including jurisdictional wetlands, the Sanitation District (or its designee) will obtain the approved 401 Water Quality Certification from the Regional Water Quality Control Board (Regional Board), the 1600 Streambed Alteration Agreement from California Department of Fish and Game (CDFG), and the 404 Permit from the USACE. Vehicle maintenance and fueling will be restricted from areas within 50 feet of the bank of a jurisdictional area. Following construction within a jurisdictional area, the affected area will be returned to preconstruction grade.

Implementation Procedure	Actions	Responsibility	Schedule
1. Acquire above stated permits if activities will occur within jurisdictional waters or wetlands.	Maintain record of permits for administrative record.	Sanitation District, USACE, RWQCB, CDFG	During Design.
2. Include requirement for permit compliance in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
3. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District, USACE, RWQCB, CDFG	During Construction.

Impact 3.7-3: Construction dewatering discharges could result in impacts to surface water quality. Less Than Significant With Mitigation.

Mitigation Measure 3.7-3: Prior to the initiation of construction dewatering activities the Sanitation District (or its designee) will obtain authorization from the Santa Ana Regional Water Quality Control Board and will comply with the NPDES Permit No. CAG998001, General Waste Discharge Requirements for Discharges to Surface Waters that Pose an Insignificant (De Minimus) Threat to Water Quality, for insignificant discharges to surface water bodies, including but not limited to discharge of dewatered groundwater.

Implementation Procedure	Actions	Responsibility	Schedule
1. Include requirement for construction dewatering permit authorization in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District, RWQCB	Prior to Approval of Plans and Specifications.
2. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District, RWQCB	During Construction.

Land Use and Planning

Impact 3.8-1: Construction activities could impact adjacent property owners, including businesses and places of worship. Less Than Significant With Mitigation.

Mitigation Measure 3.8-1: The Sanitation District will provide notices of construction to adjacent property owners, including businesses and places of worship, prior to initiating construction activities. Notices of construction will include a contact and telephone number of Sanitation District staff that can be contacted regarding questions or concerns about construction activities.

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Implementation Procedure	Actions	Responsibility	Schedule
1. Include the preparation and distribution of notifications prior to construction activities in contract specifications.	Maintain record of notifications.	Sanitation District	Prior to Approval of Plans and Specifications.
2. Contractor provides notification.	Maintain record of notifications.	Sanitation District	Prior to Commencement of Construction Activities.

Impact 3.8-2: Construction activities could affect 24-hour emergency access at adjacent fire stations, police stations, and hospitals. Less Than Significant With Mitigation.

Mitigation Measure 3.8-2: The Sanitation District will coordinate with officials of adjacent fire stations, police stations, and hospitals to ensure that 24-hour emergency access is available.

Implementation Procedure	Actions	Responsibility	Schedule
1. Include 24-hour emergency access in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
2. Coordinate with local authorities.	Maintain record of communication with local authorities.	Sanitation District, Local Authorities	During Construction.
3. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District, Local Authorities	During Construction.

Impact 3.8-3: Construction activities could result in disruption of access to adjacent land uses including schools. Less Than Significant With Mitigation.

Mitigation Measure 3.8-3: To minimize disruption of access to driveways of adjacent land uses including schools during construction, the Sanitation District (or its contractor) will maintain steel trench plates to provide vehicle access across trenches.

Implementation Procedure	Actions	Responsibility	Schedule
1. Include steel trench plates for access to driveways affected by trenches in contract specifications.	Contact local jurisdictions for specific steel trench plating requirements. Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
2. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District	During Construction.

Impact 3.8-4: Construction activities could result in disruption to adjacent businesses. Less Than Significant With Mitigation.

Mitigation Measure 3.8-4: To minimize disruption to adjacent businesses during construction, the Sanitation District will provide temporary signage indicating that businesses are open.

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Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Implementation Procedure	Actions	Responsibility	Schedule
1. Include signage for impacted businesses in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
2. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District	During Construction.

Noise

Impact 3.9-1: Construction activities could result in short-term noise disruptions to surrounding areas. Significant Unavoidable.

Mitigation Measure 3.9-1: To minimize noise disruption during construction, construction activities will generally be scheduled to occur during times allowed by applicable codes, noise ordinances or permits. Additionally, the following mitigations could be implemented as required:

- Noise reduction measures such as sound blankets or temporary sound walls could be used to reduce noise generation from stationary noise generating equipment during construction.
- Stationary noise generating equipment such as generators could be placed within the jacking pits where possible to reduce noise during construction.
- Pile driving activities or other particularly disruptive construction could be limited to specific times agreed to with agencies of jurisdiction or adjacent property owners prior to construction.
- Where appropriate, noise monitoring at the closest sensitive receptors could be conducted and reports submitted to the city of jurisdiction.

Implementation Procedure	Actions	Responsibility	Schedule
1. Include construction restrictions of applicable codes in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
2. Include construction noise mitigation measures in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
3. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District	During Construction.

Impact 3.9-2: Construction activities could expose persons to, or generate, groundborne vibration. Less Than Significant With Mitigation.

Mitigation Measure 3.9-2: Project level review will be completed and will identify specific areas susceptible to groundborne vibration. For such identified areas, construction notification would occur and construction activities would be limited to times allowed by applicable codes, noise ordinances or permits.

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Implementation Procedure	Actions	Responsibility	Schedule
1. Complete project level review and identification of specific areas susceptible to groundborne vibration.	Maintain record of project level review and identification of specific areas susceptible to groundborne vibration for administrative record.	Sanitation District	During Design.
2. Include construction restrictions of applicable codes in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
3. Include construction notification requirements in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
4. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District	During Construction.

Public Services

Impact 3.11-1: Traffic impacts associated with construction activities could impact police departments, fire departments, local service providers, and schools. Less Than Significant With Mitigation.

Mitigation Measure 3.11-1: The contractor will provide a copy of the Traffic Control Plan to the Sheriff’s Department, local police departments, and fire departments prior to construction. The Sanitation District will provide 72-hour notice of construction to the local service providers of individual pipeline segments.

Implementation Procedure	Actions	Responsibility	Schedule
1. Provide Traffic Control Plan to local authorities, service providers, and schools, prior to construction.	Maintain Traffic Control Plan and record of notifications for administrative record.	Sanitation District	Prior to Commencement of Construction.
2. Include 72-hour notice of construction in contract specifications.	Maintain Traffic Control Plan and record of notifications for administrative record.	Sanitation District	During Construction.
3. Contractor provides notification.	Maintain record of notifications.	Sanitation District	Prior to Commencement of Construction Activities.

Impact 3.11-2: Construction activities could impact access to fire stations and emergency medical facilities. Less Than Significant With Mitigation.

Mitigation Measure 3.11-2: Access to fire stations and emergency medical facilities will be maintained on a 24-hour basis, and at least one access to medical facilities will be available at all times during construction. The Sanitation District will notify appropriate officials at the medical facility regarding construction schedule.

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Implementation Procedure	Actions	Responsibility	Schedule
1. Include 24-hour access requirements in construction contract specifications.	Maintain record of contract specifications and notifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
2. Include medical facility notification in construction contract specifications.	Maintain record of contract specifications and notifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
3. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District, Fire Stations, Emergency Medical Facilities	During Construction.

Impact 3.11-3: Open trenches associated with construction activities could result in a safety impact. Less Than Significant With Mitigation.

Mitigation Measure 3.11-3a: Construction areas will be secured or trenches will be backfilled promptly after pipeline installation. If installation is incomplete, steel trench plates will be used to cover open trenches as appropriate for the specific site.

Mitigation Measure 3.11-3b: Construction contractors will ensure that adequate barriers are established to prevent pedestrians from entering the open trenches of an active construction area. Warnings will be posted sufficient distances from the work area to allow pedestrians to cross the street at controlled intersections.

Mitigation Measure 3.11-3c: To ensure aesthetic consistency and public safety, construction contractors will restore disturbed areas along the alignment as mutually agreed by the Sanitation District and local jurisdictions prior to construction.

Implementation Procedure	Actions	Responsibility	Schedule
1. Include site safety measures in construction contract specification.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
2. Include site restoration requirements in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	During Design.
3. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District	During Construction.
4. Restore site according to contract specifications.	Maintain record of site inspections.	Sanitation District	During Construction.

Impact 3.11-4: During construction activities impacts associated with the vandalism of equipment at staging and storage areas could occur. Less Than Significant With Mitigation.

Mitigation Measure 3.11-4: Construction contractors will be responsible for providing appropriate security measures for all equipment staging and/or storage areas needed for sewer improvement projects.

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Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Implementation Procedure	Actions	Responsibility	Schedule
1. Include contractor security responsibility in the construction contract specification.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
2. Implement security measures in contract specifications.	Maintain record of site inspections.	Sanitation District	During Construction.

Impact 3.11-5: Improper disposal of construction refuse would impact public services. Less Than Significant With Mitigation.

Mitigation Measure 3.11-5a: Construction contractors will dispose of construction refuse at approved disposal locations. Contractors will not be permitted to dispose of construction debris in residential or business containers.

Mitigation Measure 3.11-5b: Construction contractors will be required to keep construction and staging areas orderly, free of trash and debris.

Implementation Procedure	Actions	Responsibility	Schedule
1. Include waste disposal methods in construction contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
2. Implement waste disposal methods in contract specifications.	Maintain record of site inspections.	Sanitation District	During Construction.

Impact 3.11-6: Project activities could result in impacts associated with disruptions to existing utilities. Less Than Significant With Mitigation.

Mitigation Measure 3.11-6a: A detailed study identifying utilities along the pipeline routes will be conducted during the design stages of sewer improvement projects. For segments with potential adverse impacts, the following mitigations will be implemented.

- Utility excavation or encroachment permits will be required from the appropriate agencies. These permits include measures to minimize utility disruption. The Sanitation District and its contractors will comply with permit conditions, and such conditions will be included in construction contract specifications.
- Utility locations will be verified through field surveys.
- Detailed specifications will be prepared as part of the design plans to include procedures for the excavation, support, and fill of areas around utility cables and pipes. All affected utility services will be notified of Sanitation District construction plans and schedule. Arrangements will be made with these entities regarding protection, relocation, or temporary disconnection of services.

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Mitigation Measure 3.11-6b: To reduce potential impacts associated with utility conflicts, the following measures will be implemented in conjunction with 3.11-6a.

- Disconnected cables and lines will be promptly reconnected.
- The Sanitation District will observe Department of Health and Safety (DHS) standards, which require a 10-foot horizontal separation between parallel sewer and water mains and 1-foot vertical separation between perpendicular water and sewer line crossings. In the event that the separation requirements cannot be maintained, the Sanitation District will obtain DHS variance through provisions of water encasement, or other means deemed suitable by DHS, and by encasing water mains in protective sleeves where a new sewer force main crosses under or over an existing sewer main.

Mitigation Measure 3.11-6c: The construction contractor will comply with Sanitation District requirements and specifications to protect existing utility lines.

Implementation Procedure	Actions	Responsibility	Schedule
1. Complete underground utility surveys as part of project design.	Maintain utility surveys for the administrative record.	Sanitation District	During Design.
2. Implement mitigation measures listed above.	Maintain all appropriate documentation.	Sanitation District	During Design, During Construction.
3. Obtain permits, as appropriate.	Maintain permits for the administrative record.	Sanitation District, Permitting Agencies	Prior to commencement of construction activities.
4. Include specific requirements related to utilities in construction contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	Prior to approval of plans and specifications.
5. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District	During Construction.

Impact 3.11-7: Projects could affect the compatibility of existing and future projects. Less Than Significant With Mitigation.

Mitigation Measure 3.11-7: The Sanitation District shall coordinate with the Orange County Resources and Development Management Department (RDMD) and other jurisdictions as required to ensure compatibility and joint-use feasibility with existing and future projects.

Implementation Procedure	Actions	Responsibility	Schedule
1. Coordinate with local authorities to ensure project compatibility.	Maintain record of coordination for administrative record.	Sanitation District, RDMD, local jurisdictions, Caltrans	During Design.
2. Include compatibility requirements in contract specifications.	Maintain record of contract specifications for administrative record.	Sanitation District	During Design.

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

3. Construct facilities according to contract specifications.	Maintain record of inspections as appropriate.	Sanitation District	During Construction.
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Transportation and Traffic

Impact 3.12-1: Construction activities will occur within city streets and would impact traffic. Less Than Significant With Mitigation.

Mitigation Measure 3.12-1a: Traffic control plans will be prepared by a qualified professional engineer as required prior to the construction phase of each sewer line project.

Mitigation Measure 3.12-1b: Traffic control plans will consider the ability of alternative routes to carry additional traffic and will identify the least disruptive hours of construction, site truck access routes, and the type and location of warning signs, lights, and other traffic control devices. Consideration will be given to maintaining access to commercial parking lots, private driveways, sidewalks, bikeways, and equestrian trails to the greatest extent feasible.

Mitigation Measure 3.12-1c: Encroachment permits for all work within or adjacent to public rights-of-way will be obtained from each appropriate agency prior to commencement of any construction. Agencies could include California Department of Transportation (Caltrans), RDMD and the various city agencies where work will occur. The Sanitation District will comply with traffic control requirements, as identified by Caltrans and the affected local jurisdictions.

Mitigation Measure 3.12-1d: Traffic control plans will comply with the Work Area Traffic Control Handbook and/or the Manual on Uniform Traffic Control Devices, as determined by each affected local agency, to minimize any traffic and pedestrian hazards that exist during project construction.

Mitigation Measure 3.12-1e: Public roadways will be restored to their existing condition after project construction is completed.

Mitigation Measure 3.12-1f: The Sanitation District will attempt to schedule construction of relief facilities to occur jointly with other public works projects already planned in the affected locations, through careful coordination with all local agencies involved.

Mitigation Measure 3.12-1g: Emergency service purveyors will be contacted and consulted to preclude the creation of unnecessary traffic bottlenecks that will seriously impede response times. Additionally, measures to provide an adequate level of access to private properties will be maintained to allow delivery of emergency services.

Mitigation Measure 3.12-1h: Orange County Transportation Authority (OCTA) will be contacted when construction affects roadways that are part of the OCTA bus transit network. Adequate procedures will be implemented to keep bus routes and station accessible to users.

Mitigation Measure 3.12-1i: Construction traffic, mainly trucks, will be routed in a way to minimize impacts to sensitive neighborhoods. In addition, storage and staging of materials and equipment will be done after obtaining a Temporary Use Permit, when needed.

Mitigation Measure 3.12-1j: An effort will be made to solicit input from residents in the neighborhoods of the proposed improvements. These inputs will be considered in the planning phase through construction to mitigate the residents' concerns.

Mitigation Measure 3.12-1k: For sewer improvements that occur within railroad rights-of-way, the Sanitation District will follow the Southern California Regional Rail Authority (SCRRA) procedures for right-of-way encroachment – SCRRA Form No. 36. The procedures for temporary encroachment calls for: (1) the submittal of a written statement of the reason and location of the encroachment; (2) a completed and executed SCRRA Form No. 6, Right-of-Entry Agreement; (3) plan check, inspection, and flagging fees; and (4) insurance certificates, as described in the Right-of-Entry Agreement. Per SCRRA Form No. 6, the Sanitation District must comply with the rules and regulations of this agreement at all times when working on SCRRA property, including those outlines in the “Rules and Requirements for Construction at Railway Property, SCRRA Form No. 37” and “General Safety Regulations for Construction/Maintenance Activity on Railway Property.”

TABLE A-1

Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Implementation Procedure	Actions	Responsibility	Schedule
1. Contract with qualified traffic control engineer to prepare traffic control plan for each construction project.	Maintain copy of traffic control plan for administrative record.	Sanitation District	During Design.
2. Ensure that issues identified in mitigation measures are included in traffic control plan.	Maintain copy of traffic control plan for administrative record.	Sanitation District	During Design.
3. Include within construction contract specifications the acquisition of all necessary encroachment permits.	Maintain record of contract specifications for administrative record. Maintain permits for the administrative record.	Sanitation District, Caltrans, RDMD, OCTA, Local Jurisdictions	Prior to Approval of Plans and Specifications.
4. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District, Caltrans, RDMD, OCTA, Local Jurisdictions	During Construction.
5. Include application for SCRRA encroachment permit in construction contract specifications.	Maintain record of contract specifications for administrative record. Maintain permits for the administrative record.	Sanitation District, SCRRA	Prior to Approval of Plans and Specifications.

Impact 3.12-2: Construction of collection system improvement projects would include lane closures and limited road closures that would worsen level of service (LOS) along local roadways. Significant Unavoidable.

Mitigation Measure 3.12-2a: Where lane closures are necessary for construction of sewer improvement projects, all construction equipment will be staged within the closed lanes or in staging areas outside of city streets.

Mitigation Measure 3.12-2b: Where lane or road closures are necessary for construction of sewer improvement projects, adequate signage will be provided informing local residents and business owners of construction activities prior to commencement of construction activities.

Mitigation Measure 3.12-2c: Where lane or road closures are necessary for construction of sewer improvement projects, cones and/or traffic guards will be used to clearly indicate the locations and directions of temporarily altered traffic lanes.

Mitigation Measure 3.12-2d: The construction technique for implementation of the proposed sewer lines, such as tunneling, cut-and-cover with partial street closure, or cut-and-cover with full street closure, will include consideration of the ability of the roadway system, both the street in question and alternate routes, to carry existing traffic volumes during project construction. If necessary, adjacent parallel streets will be selected as alternate alignments for the proposed sewer improvements. As required by local jurisdictions, trunk sewers will be jacked under select major intersections to avoid traffic disruption and congestion.

Mitigation Measure 3.12-2e: Public streets generally will be kept operational during construction, particularly in the morning and evening peak hours of traffic. Lane closures will be minimized during peak traffic hours.

Mitigation Measure 3.12-2f: Where road closures are necessary for construction of sewer improvement projects, signage will be posted informing motorists of road closures and delineating suitable detours, both prior to and during the duration of construction activities. Prior to initiating a road closure, coordination with local jurisdictions, including Caltrans, will occur.

TABLE A-1
Mitigation Monitoring and Reporting Program for the Collection System Improvement Plan

Implementation Procedure	Actions	Responsibility	Schedule
1. Include adherence to the traffic control plan in construction contract specifications.	Maintain traffic control plan, permits, and construction schedule and methods for administrative record.	Sanitation District	Prior to Approval of Plans and Specifications.
2. Include coordination with local jurisdictions, signage and notification in construction contract specifications.	Maintain traffic control plan, permits, and construction schedule and methods for administrative record.	Sanitation District, Local Jurisdictions	Prior to Approval of Plans and Specifications.
3. Conduct periodic construction site inspections.	Maintain record of site inspections.	Sanitation District, Local Jurisdictions	During Construction.