



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE

REFER TO FILE: **SM-1**

September 21, 2010

Mr. Anthony Ybarra, City Manager
City of South El Monte
1415 North Santa Anita Avenue
South El Monte, CA 91733-3389

Attention Mr. Bruno Callu

Dear Mr. Ybarra:

**CONSOLIDATED SEWER MAINTENANCE DISTRICT
CONDITION ASSESSMENT PROGRAM REPORT
PROJECT NO. Y0TV0910B**

This letter is to inform you that as part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television inspection of 192,636 feet or 100 percent of the City of South El Monte's sewer system.

The enclosed report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's rating methodology. Included in the report are the following:

- Condition Assessment Report
- Project Overview Map (Enclosure 1)
- Quick Maintenance Rating Report Priority List and Quick Maintenance Rating Map (Enclosure 2)
- High Water Levels List and Map (Enclosure 2)
- Quick Structural Rating Report Priority List and Quick Structural Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

Mr. Anthony Ybarra
September 21, 2010
Page 2

The Condition Assessment Report provides you with details regarding the maintenance and structural condition of your City's sewer mainlines. This information can be included in your agency's Sewer System Management Plan as a reference in Chapter 8.0 System Evaluation and Capacity Assurance Plan. The segments with critical maintenance issues have been cleaned and, in some instances, incorporated into our routine cleaning schedule. In addition, the segments with severe structural defects have either been repaired or will be scheduled for repair as part of the ongoing Accumulative Capital Outlay Project.

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr. Robert Swartz at (626) 300-3367, Monday through Friday, 8 a.m. to 4 p.m., or at rswartz@dpw.lacounty.gov.

Very truly yours,

GAIL FARBER
Director of Public Works



JOHN T. WALKER
Assistant Deputy Director
Sewer Maintenance Division

PK:gy
H:\SM\HOME\GYoung\Memos.Letters\1935.docx

Enc.

bc: JW, KL,RS, FV, File (Project Y0TV0910B), SPINDLE

**CONDITION ASSESSMENT REPORT
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
CONSOLIDATED SEWER MAINTENANCE DISTRICT**

| | | | |
|-------------------|---------------|--------------|----------------|
| PROJECT NAME: | Y0TV0910B | PROJECT MGR: | Kari Eskridge |
| PROJECT DATE: | February 2010 | CONTACT NO: | (626) 300-3390 |
| SUP. DISTRICT(s): | 1 | MAP PAGE(S): | T.G. 636, 637 |
| Report By: | Kari Eskridge | Report Date: | 09/07/2010 |

INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 192,636 feet or 100 percent of the City of South El Monte's sewer system.

The Sewer Condition Assessment Program utilizes the Pipeline Assessment and Certification Program (PACP) Quick Rating methodology to rank the structural and maintenance condition of your system based on industry standards.

PROJECT AREA AND DESCRIPTION

Project Y0TV0910B included sewer lines located in the Cities of South El Monte, Cudahy, Pico Rivera, and Santa Fe Springs and Los Angeles County unincorporated area. Enclosed for your reference is an overview map of the project area in your City (Enclosure 1).

DEFECT GRADE DESCRIPTION

The Quick Rating indicates the number of occurrences for the highest severity grade for each pipe segment for either maintenance or structural defects. A grade of 1 indicates that a pipe segment is in excellent condition with minor defects, while a grade of 5 indicates that a pipe segment may require immediate attention. A detailed breakdown of the five possible defect grades is as follows:

| Grade | Description | Estimate time to Failure |
|--------------|---|--|
| 1: | EXCELLENT: Minor Defects. | Unlikely in the foreseeable future |
| 2: | GOOD: Defects that have not begun to deteriorate. | 20 years or more |
| 3: | FAIR: Moderate defects that will continue to deteriorate. | 10 to 20 years |
| 4: | POOR: Severe defects that will become grade 5 defects within the foreseeable future. | 5 to 10 years |
| 5: | IMMEDIATE ATTENTION: Defects requiring immediate attention. | Has failed or will likely fail within the next 5 years |

MAINTENANCE REPORT

Our inspection revealed that approximately 92.8 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 7.2 percent of the inspected pipe segments within the City of South El Monte area had a PACP maintenance grade of 3, 4 or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our routine cleaning schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2).

Also included on this list are deficiencies discovered inside lateral connections to the mainline. The District does not maintain lateral lines; it is the responsibility of the property owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. A letter will be sent to the lateral owner notifying them of the maintenance issues discovered in their lateral. A sample lateral notice letter is provided in Enclosure 2 for your reference.

In addition, a color-coded map showing the quick maintenance rating for each pipe segment is provided in Enclosure 2.

QUICK MAINTENANCE RATING TABLE

| DEFECT GRADE | PIPE LENGTH (FT) | PERCENT TOTAL INSPECTED PIPE LENGTH | NO. SEGMENTS |
|------------------------|-------------------------|--|---------------------|
| 1: Excellent | 181 | 0.1 | 1 |
| 2: Good | 178,539 | 92.7 | 716 |
| 3: Fair | 7,305 | 3.8 | 28 |
| 4: Poor | 5,765 | 3.0 | 21 |
| 5: Immediate Attention | 846 | 0.4 | 4 |
| TOTAL | 192,636 | 100.0 | 770 |

High Water Levels

Our inspection revealed that approximately 95.3 percent of the system televised has adequate capacity. However, the remaining 4.7 percent of the inspected segments included deficiencies associated with high water levels. Capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line. A sewer pipe can be considered at capacity when 50% of the diameter of sewer pipe is full of water. However, there are particular conditions in which the water level or water mark has reached 50% or greater due to heavy flows in adjoining pipes, a temporary stoppage due to debris in the sewer lines, or a sag in the line. Therefore, additional review of all pipe segments with such high water level concerns was conducted to determine capacity issues, if any. All sewer pipes where Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50% capacity, have been outlined and analyzed on the High Water Level table in Enclosure 2. The nature of these high water level conditions is also summarized on this table.

A map showing the sewer lines with high water levels is provided in Enclosure 2.

Infiltration

Our inspection revealed that infiltration was not detected in any pipe segment in your City's system.

STRUCTURAL REPORT

Our inspection revealed that approximately 94.2 percent of the inspected pipe segments within the City of South El Monte were free of severe structural defects. However, the remaining 5.8 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Structural Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. For Items 1 through 45 in the Quick Structural Rating Report Priority List (Enclosure 3) which require a corrective action, the proposed corrective method will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project. Also included is a color-coded map showing the quick structural rating for each pipe segment.

QUICK STRUCTURAL RATING TABLE

| DEFECT GRADE | PIPE LENGTH (FT) | PERCENT TOTAL INSPECTED PIPE LENGTH | NO. SEGMENTS |
|------------------------|-------------------------|--|---------------------|
| 1: Excellent | 163,947 | 85.1 | 662 |
| 2: Good | 4,678 | 2.4 | 17 |
| 3: Fair | 12,809 | 6.7 | 46 |
| 4: Poor | 8,907 | 4.6 | 37 |
| 5: Immediate Attention | 2,295 | 1.2 | 8 |
| TOTAL | 192,636 | 100.0 | 770 |

ENCLOSURE 1:

Project Overview Map

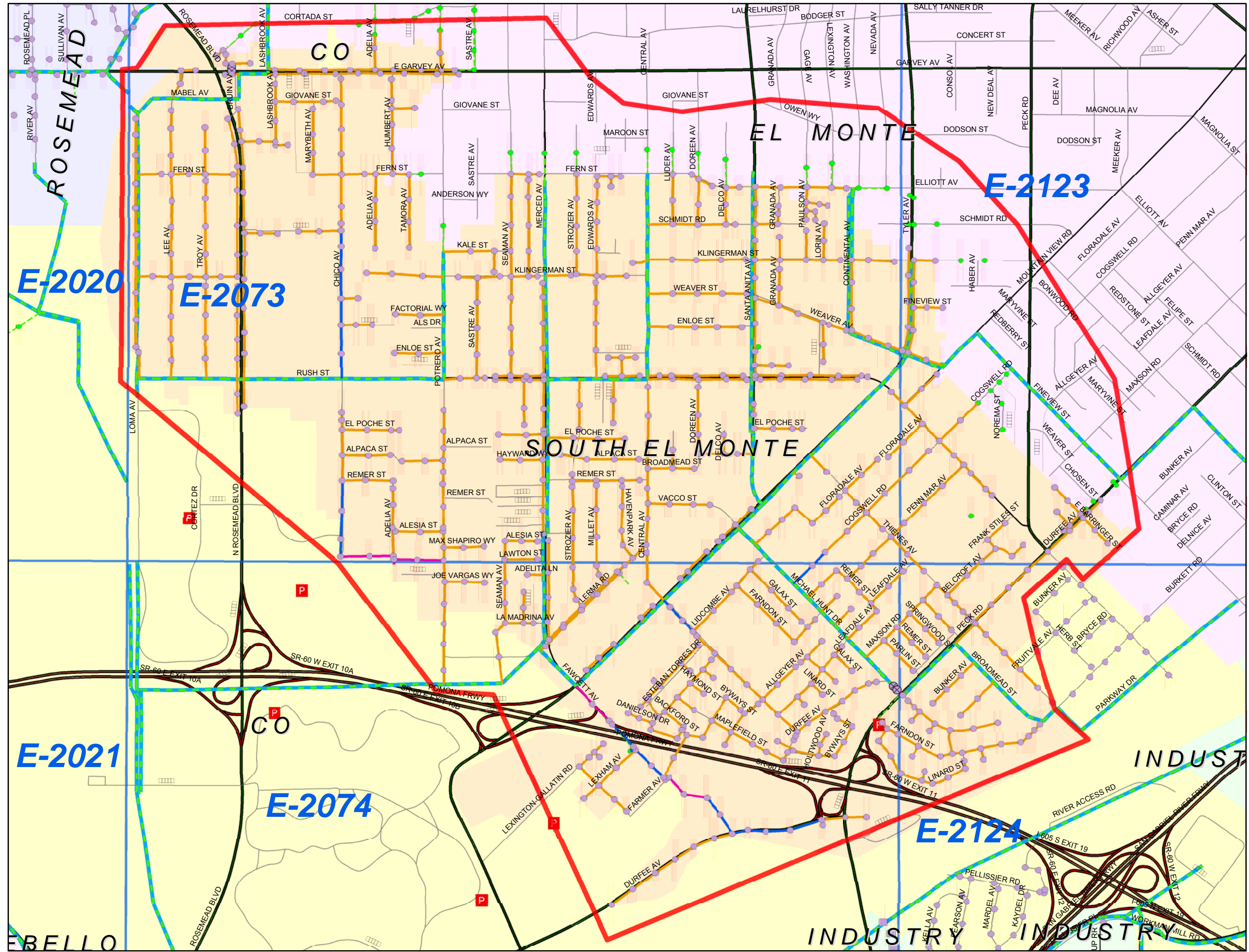
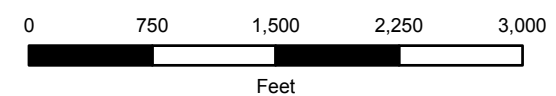
OVERVIEW MAP

South El Monte

CCTV PROJECT

Y0TV0910B

Supervisorial District 1
 Cities of Cudahy, Pico Rivera, Santa Fe Springs, South El Monte & County Unincorporated



Legend

SMD Sanitary Sewers

- Other
- 6
- 8
- 10
- 12
- 15
- 18

SMD Manholes

- Other

Manhole Type

- Standard
- DROP
- Shallow
- Trap
- Siphon

- SMD Pump Stations

- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH

- SMD Operations Maps

- CCTV PROJECT AREA

This map is intended only for internal operations of the Los Angeles County Sewer Maintenance Districts. Los Angeles County expressly disclaims any liability for any inaccuracies which may be present in this map. Data contained in this map is produced in whole or part from the Thomas Bros. Maps digital database. This map is copyrighted, and reproduced with permission granted, by Thomas Bros. Maps. All rights reserved.

SEPTEMBER 2009

Y0TV0910B_OVERVIEW.mdx

ENCLOSURE 2:

- Quick Maintenance Rating Report
Priority List
- Quick Maintenance Rating Map
- High Water Levels
- High Water Levels Map
- Sample Lateral Notice Letter

ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF SOUTH EL MONTE (Y0TV0910B)

as of 05/05/10

| Item No. | QMR | START MH | END MH | STREET | OBSERVATION | Corrective Action Taken (Date Completed) |
|----------|------|-----------|-----------|------------------------|--------------------------------------|---|
| 1 | 5100 | 2074-0045 | 2074-0046 | POMONA FW | High Water Mark (due to pump) | Water Mark, 80% of cross sectional area; no action needed |
| 2 | 5100 | 2074-0056 | 2074-0057 | FAWCETT AV | High Water Level (due to pump) | Water Level, 100% of cross sectional area; no action needed |
| 3 | 5100 | 2074-0056 | 2074-PUMP | LEXHAM AV | High Water Level (due to pump) | Water Level, 100% of cross sectional area; no action needed |
| 4 | 5100 | 2124-0205 | 2074-0206 | SLACK RD | Water Mark | Water Mark, 80% of cross sectional area; no action needed |
| 5 | 4221 | 2073-0385 | 2073-0386 | ALPACA ST | Sag (high water level) | Hydrojet (06/03/2010) |
| 6 | 4131 | 2073-0101 | 2073-0102 | CHICO AV | Sag (high water level) | Hydrojet (06/03/2010) |
| 7 | 4131 | 2073-0261 | 2073-0264 | FERN ST | Roots | Hydrojet (06/03/2010) |
| 8 | 4131 | 2073-0399 | 2073-0400 | MERCED AV | Sag (high water level) | Hydrojet (06/03/2010) |
| 9 | 4131 | 2074-0043 | 2074-0044 | FAWCETT AV | Sag (high water level); rocks | Hydrojet (06/03/2010) |
| 10 | 4131 | 2123-0046 | 2123-0047 | TYLER AV | Roots | Hydrojet (06/22/2010) |
| 11 | 4131 | 2124-0258 | 2124-0259 | LINARD ST | Roots | Hydrojet (06/22/2010) |
| 12 | 4123 | 2073-0162 | 2073-0163 | SEAMAN AV | Sag (high water level) | Hydrojet (06/03/2010) |
| 13 | 4123 | 2074-0086 | 2074-0087 | LIDCOMBE AV | Roots | Hydrojet (06/22/2010) |
| 14 | 4123 | 2074-0156 | 2074-0164 | PENN MAR AV | Roots | Hydrojet (06/22/2010) |
| 15 | 4122 | 2073-0022 | 2073-0023 | LOMA AV | Sag (high water level) | Hydrojet (06/03/2010) |
| 16 | 4122 | 2073-0034 | 2073-0035 | LEE AV | Sag (high water level) | Hydrojet (06/03/2010) |
| 17 | 4122 | 2073-0047 | 2073-TRNK | ROSEMEAD BV | High Water Level (due to trunk line) | Hydrojet (06/03/2010) |
| 18 | 4122 | 2073-0249 | 2073-TRNK | KLINGERMAN ST | Roots | Hydrojet (06/03/2010) |
| 19 | 4122 | 2073-0255 | 2073-0256 | SCHMIDT RD | Roots | Hydrojet (06/03/2010) |
| 20 | 4121 | 2073-0030 | 2073-TRNK | LOMA AV | High Water Level (due to trunk line) | Hydrojet (06/03/2010) |
| 21 | 4121 | 2073-0033 | 2073-TRNK | LEE AV | High Water Level (due to trunk line) | Hydrojet (06/03/2010) |
| 22 | 4121 | 2073-0072 | 2073-0073 | TROY AV | Sag (high water level) | Hydrojet (06/03/2010) |
| 23 | 4121 | 2073-0238 | 2073-TRNK | RUSH ST | Sag (high water level) | Hydrojet (06/03/2010) |
| 24 | 4121 | 2073-0283 | 2073-0284 | GRANADA AV | Roots | Hydrojet (06/03/2010) |
| 25 | 4121 | 2074-0013 | 2074-TRNK | ADELITA LN | High Water Level (due to trunk line) | Hydrojet (06/22/2010) |
| 26 | 3222 | 2074-0086 | 2074-0088 | FARNDON ST | Roots @ 144', 200' | Letter to homeowner; hydrojet (06/22/2010) |
| 27 | 3221 | 2073-0434 | 2073-0435 | MERCED AV | Sag (high water level) | Hydrojet (06/03/2010) |
| 28 | 3221 | 2073-0435 | 2073-0436 | MERCED AV | Sag (high water level) | Hydrojet (06/03/2010) |
| 29 | 3122 | 2073-0352 | 2073-0353 | EASEMENT | Roots @ 163' | Letter to homeowner; hydrojet (06/03/2010) |
| 30 | 3122 | 2073-0398 | 2073-0407 | MERCED AV | Sag (high water level) | Hydrojet (06/03/2010) |
| 31 | 3122 | 2074-0069 | 2074-0214 | EASEMENT | Sag (high water level) | Hydrojet (06/23/2010) |
| 32 | 3122 | 2074-0141 | 2074-0143 | LEAFDALE AV | Sag (high water level) | Hydrojet (06/23/2010) |
| 33 | 3121 | 2073-0011 | 2073-0269 | PAULSON AV | Sag (high water level) | Hydrojet (06/04/2010) |
| 34 | 3121 | 2073-0016 | 2073-TRNK | LEE AV | High Water Level (due to trunk line) | Hydrojet (06/03/2010) |
| 35 | 3121 | 2073-0106 | 2073-0107 | ALLY N/O KLINGERMAN ST | Sag (high water level) | Hydrojet (06/03/2010) |
| 36 | 3121 | 2073-0135 | 2073-0136 | HUMBERT AV | Debris @ 208' | Letter to homeowner, hydrojet (06/03/2010) |
| 37 | 3121 | 2073-0183 | 2073-0318 | SANTA ANITA AV | Roots @ 149' | Letter to homeowner, hydrojet (06/04/2010) |
| 38 | 3121 | 2073-0398 | 2073-0399 | MERCED AV | Sag (high water level) | Hydrojet (06/03/2010) |

ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF SOUTH EL MONTE (Y0TV0910B)

as of 05/05/10

| Item No. | QMR | START MH | END MH | STREET | OBSERVATION | Corrective Action Taken (Date Completed) |
|----------|------|-----------|-----------|------------------|------------------------|---|
| 39 | 3121 | 2073-0408 | 2073-0436 | MERCED AV | Sag (high water level) | Hydrojet (06/03/2010) |
| 40 | 3121 | 2074-0019 | 2074-0020 | MERCED AV | Sag (high water level) | Hydrojet (06/22/2010) |
| 41 | 3121 | 2074-0021 | 2074-0022 | LERMA RD | Sag (high water level) | Hydrojet (06/22/2010) |
| 42 | 3121 | 2074-0089 | 2074-0090 | FARNDON ST | Roots @ 280' | Letter to homeowner, hydrojet (06/22/2010) |
| 43 | 3121 | 2074-0102 | 2074-0103 | PENN MAR AV | Sag (high water level) | Hydrojet (06/22/2010) |
| 44 | 3121 | 2074-0122 | 2074-0123 | HOLTWOOD AV | Sag (high water level) | Hydrojet (06/22/2010) |
| 45 | 3121 | 2074-0141 | 2074-0142 | HAIG ST | Sag (high water level) | Hydrojet (06/23/2010) |
| 46 | 3121 | 2074-0167 | 2074-0168 | EASEMENT | Obstacles: rock @ 85' | Hydrojet (06/24/2010) |
| 47 | 3121 | 2123-0041 | 2123-0046 | TYLER AV | Sag (high water level) | Hydrojet (06/22/2010) |
| 48 | 3121 | 2123-0051 | 2123-0052 | MOUNTAIN VIEW RD | Sag (high water level) | Hydrojet (06/22/2010) |
| 49 | 3121 | 2124-0249 | 2124-0251 | FARNDON ST | Roots | Hydrojet (06/22/2010) |
| 50 | 3121 | 2124-0256 | 2124-0257 | LINARD ST | Roots | Hydrojet (06/22/2010) |
| 51 | 3121 | 2124-0263 | 2124-0264 | FARNDON ST | Roots | Hydrojet (06/22/2010) |
| 52 | 3100 | 2073-0001 | 2073-0009 | GARVEY AV | Water Mark | Water Mark, 50% of cross sectional area; no action needed |
| 53 | 3100 | 2074-0043 | 2074-TRNK | FAWCETT AV | Water Mark | Water Mark, 50% of cross sectional area; no action needed |

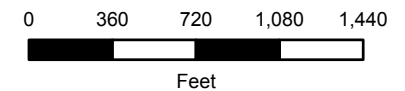
ENCLOSURE 2

CCTV PROJECT

Y0TV0910B

Supervisorial District 1
CITY OF SOUTH EL MONTE

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers QMR

- 1: EXCELLENT
- 2: GOOD
- 3: FAIR
- 4: POOR
- 5: IMMEDIATE ATTENTION

SMD Manholes

- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon

SMD Treatment Plants

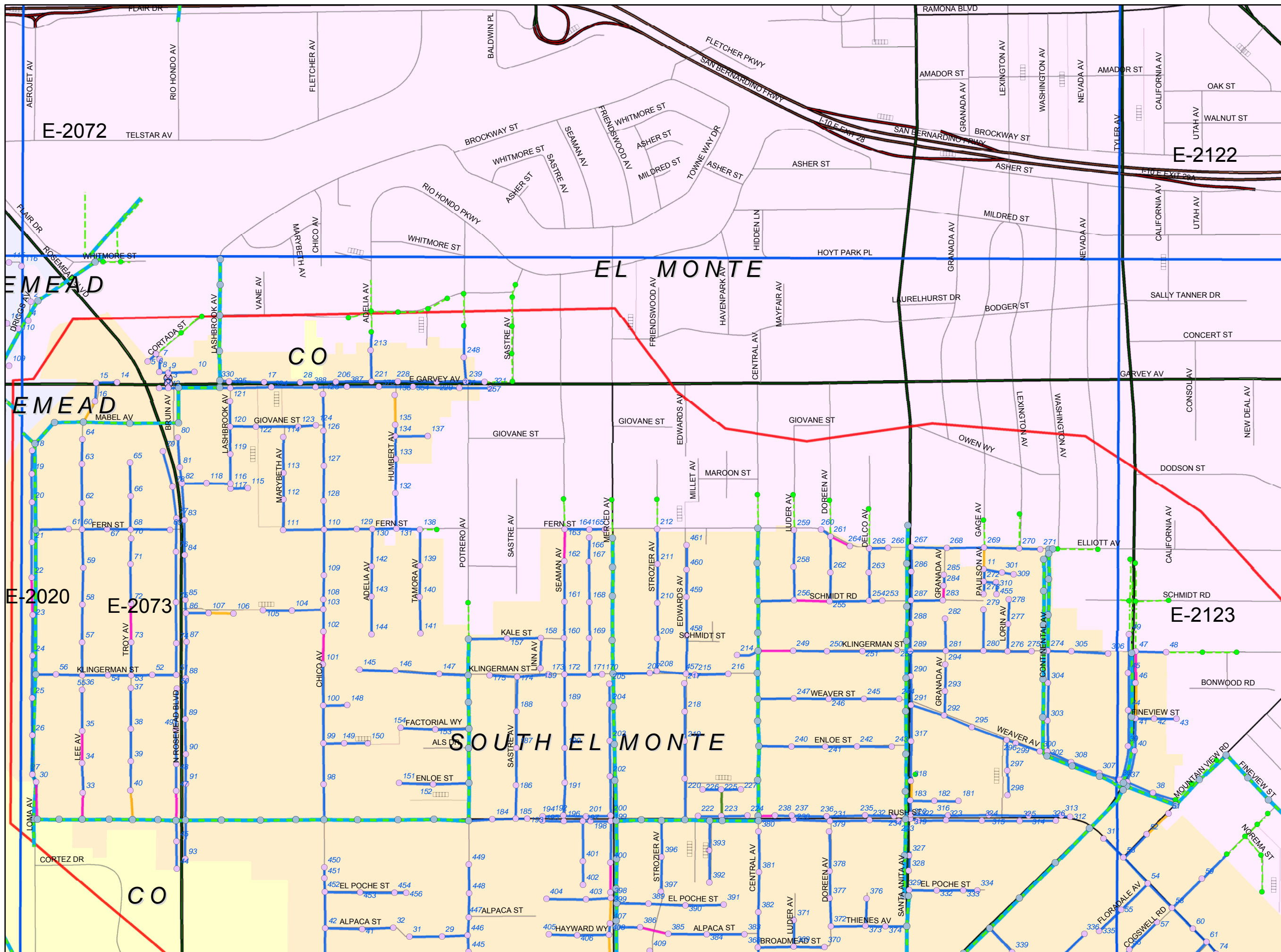
SMD Pump Station

Maintained by Others:

- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

This map is intended only for internal operations of the Los Angeles County Sewer Maintenance Districts. Los Angeles County expressly disclaims any liability for any inaccuracies which may be present in this map. Data contained in this map is produced in whole or part from the Thomas Bros. Maps digital database. This map is copyrighted, and reproduced with permission granted, by Thomas Bros. Maps. All rights reserved.

SEPTEMBER 2010



ENCLOSURE 2 CCTV PROJECT Y0TV0910B

Supervisorial District 1
CITY OF SOUTH EL MONTE

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers

- QMR**
- 1: EXCELLENT
 - 2: GOOD
 - 3: FAIR
 - 4: POOR
 - 5: IMMEDIATE ATTENTION

SMD Manholes

- Other

Manhole Type

- Standard
- DROP
- Shallow
- Trap
- Siphon

WTP SMD Treatment Plants

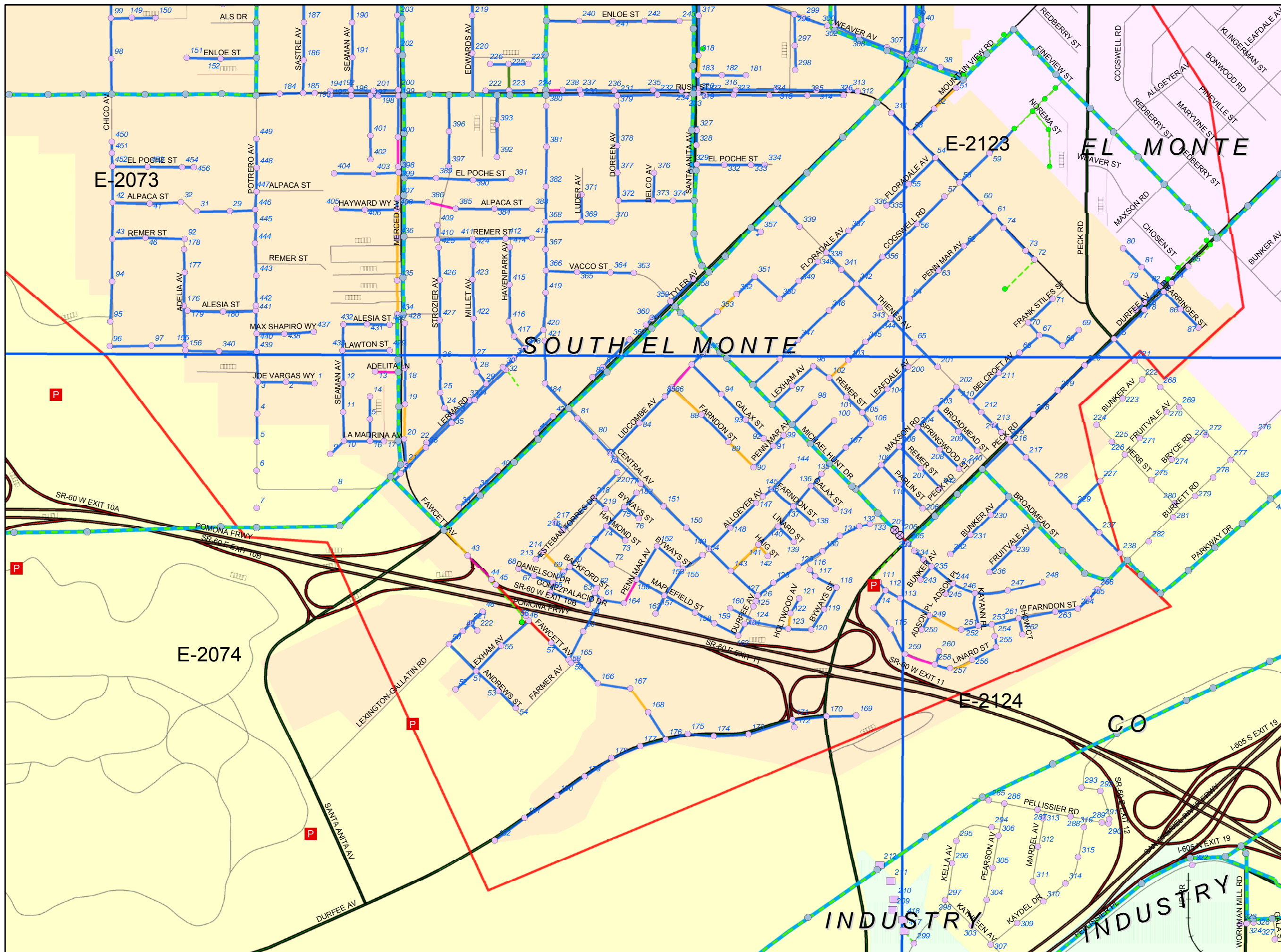
- SMD Pump Station

Maintained by Others:

- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

This map is intended only for internal operations of the Los Angeles County Sewer Maintenance Districts. Los Angeles County expressly disclaims any liability for any inaccuracies which may be present in this map. Data contained in this map is produced in whole or part from the Thomas Bros. Maps digital database. This map is copyrighted, and reproduced with permission granted, by Thomas Bros. Maps. All rights reserved.

SEPTEMBER 2010



ENCLOSURE 2
HIGH WATER LEVELS
CITY OF SOUTH EL MONTE (Y0TV0910B)
as of 05/05/10

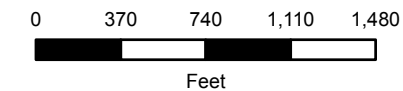
| Item No. | QMR | START MH | END MH | STREET | OBSERVATION | SAG (ft) | |
|----------|------|-----------|-----------|------------------------|---|---|-----|
| 1 | 5100 | 2074-0045 | 2074-0046 | POMONA FW | High Water Level (due to pump) | (50%) : 374' - 401' | |
| 2 | 5100 | 2074-0056 | 2074-0057 | FAWCETT AV | High Water Level (due to pump) | (100%) | |
| 3 | 5100 | 2074-0056 | 2074-PUMP | LEXHAM AV | High Water Level (due to pump) | (100%) | |
| 4 | 5100 | 2124-0205 | 2074-0206 | SLACK RD | High Water Mark (due to trunk line) | (80%) | |
| 5 | 4221 | 2073-0385 | 2073-0386 | ALPACA ST | Sag (high water level) | (50%): 75' - 105' | 30 |
| 6 | 4131 | 2073-0101 | 2073-0102 | CHICO AV | Sag (high water level) | (50%): 92' - 128' | 36 |
| 7 | 4131 | 2073-0399 | 2073-0400 | MERCED AV | Sag (high water level) | (50%): 303' - 316' | 13 |
| 8 | 4131 | 2074-0043 | 2074-0044 | FAWCETT AV | Sag (high water level); high water mark (due to pump) | (30%-80%): 0'-180' | |
| 9 | 4123 | 2073-0162 | 2073-0163 | SEAMAN AV | Sag (high water level) | (50%): 40' - 50'; high water mark | 10 |
| 10 | 4122 | 2073-0022 | 2073-0023 | LOMA AV | Sag (high water level) | (20%-50%): 30' - 90' | 60 |
| 11 | 4122 | 2073-0034 | 2073-0035 | LEE AV | Sag (high water level) | (20% - 50%): 25' - 60' | 35 |
| 12 | 4122 | 2073-0047 | 2073-TRNK | ROSEMEAD BV | High Water Level (due to trunk line) | (25% - 50%): 315' - 348' | |
| 13 | 4121 | 2073-0030 | 2073-TRNK | LOMA AV | High Water Level (due to trunk line) | (25% - 50%): 298'-340' | |
| 14 | 4121 | 2073-0033 | 2073-TRNK | LEE AV | High Water Level (due to trunk line) | (25% - 50%): 256' - 330' | |
| 15 | 4121 | 2073-0072 | 2073-0073 | TROY AV | Sag (high water level) | (50%): 200' - 230' | 30 |
| 16 | 4121 | 2073-0238 | 2073-TRNK | RUSH ST | Sag (high water level) | (50%): 90' - 150' | 60 |
| 17 | 4121 | 2074-0013 | 2074-TRNK | ADELITA LN | High Water Level (due to trunk line) | (50%): 220' - 243' | |
| 18 | 3221 | 2073-0434 | 2073-0435 | MERCED AV | Sag (high water level) | (50%): 40' - 82'; 251' - 346' (near Trunk Line) | 42 |
| 19 | 3221 | 2073-0435 | 2073-0436 | MERCED AV | Sag (high water level) | (50%): 204' - 235'; 285' - 340' | 86 |
| 20 | 3122 | 2073-0398 | 2073-0407 | MERCED AV | Sag (high water level) | (50%): 78'-108'; 170'-185'; 190'-215' | 70 |
| 21 | 3122 | 2074-0069 | 2074-0214 | EASEMENT | Sag (high water level) | (50%): 33'-62'; 122'-178' | 85 |
| 22 | 3122 | 2074-0141 | 2074-0143 | LEAFDALE AV | Sag (high water level) | (50%): 168' - 189'; 240' - 326' | 107 |
| 23 | 3121 | 2073-0011 | 2073-0269 | PAULSON AV | Sag (high water level) | (50%): 40' - 86' | 46 |
| 24 | 3121 | 2073-0016 | 2073-TRNK | LEE AV | High Water Level (due to trunk line) | (50%): 50' - 137' | |
| 25 | 3121 | 2073-0106 | 2073-0107 | ALLY N/O KLINGERMAN ST | Sag (high water level) | (25%): 120' -150' | 30 |
| 26 | 3121 | 2073-0398 | 2073-0399 | MERCED AV | Sag (high water level) | (50%): 2' - 20' | 18 |
| 27 | 3121 | 2073-0408 | 2073-0436 | MERCED AV | Sag (high water level) | (40%-50%): 190' - 214' | 24 |
| 28 | 3121 | 2074-0019 | 2074-0020 | MERCED AV | Sag (high water level) | (40%-50%): 248' - 264' | 18 |
| 29 | 3121 | 2074-0021 | 2074-0022 | LERMA RD | Sag (high water level) | (50%): 140' - 180' | 40 |
| 30 | 3121 | 2074-0102 | 2074-0103 | PENN MAR AV | Sag (high water level) | (50%): 0' - 18' | 18 |
| 31 | 3121 | 2074-0122 | 2074-0123 | HOLTWOOD AV | Sag (high water level) | (50%): 102' - 108' | 6 |
| 32 | 3121 | 2074-0141 | 2074-0142 | HAIG ST | Sag (high water level) | (50%): 135' - 152' | 17 |
| 33 | 3121 | 2123-0041 | 2123-0046 | TYLER AV | Sag (high water level) | (50%): 58' - 90' | 32 |
| 34 | 3121 | 2123-0051 | 2123-0052 | MOUNTAIN VIEW RD | Sag (high water level) | (50%): 286' - 296' | 10 |
| 35 | 3100 | 2073-0001 | 2073-0009 | GARVEY AV | High Water Mark | (25%-50%) | |
| 36 | 3100 | 2074-0043 | 2074-TRNK | FAWCETT AV | High Water Mark | (50%) | |

ENCLOSURE 2

CCTV PROJECT Y0TV0910B

Supervisorial District 1
CITY OF SOUTH EL MONTE

HIGH WATER LEVELS



Legend

High Water Levels

SMD Manholes

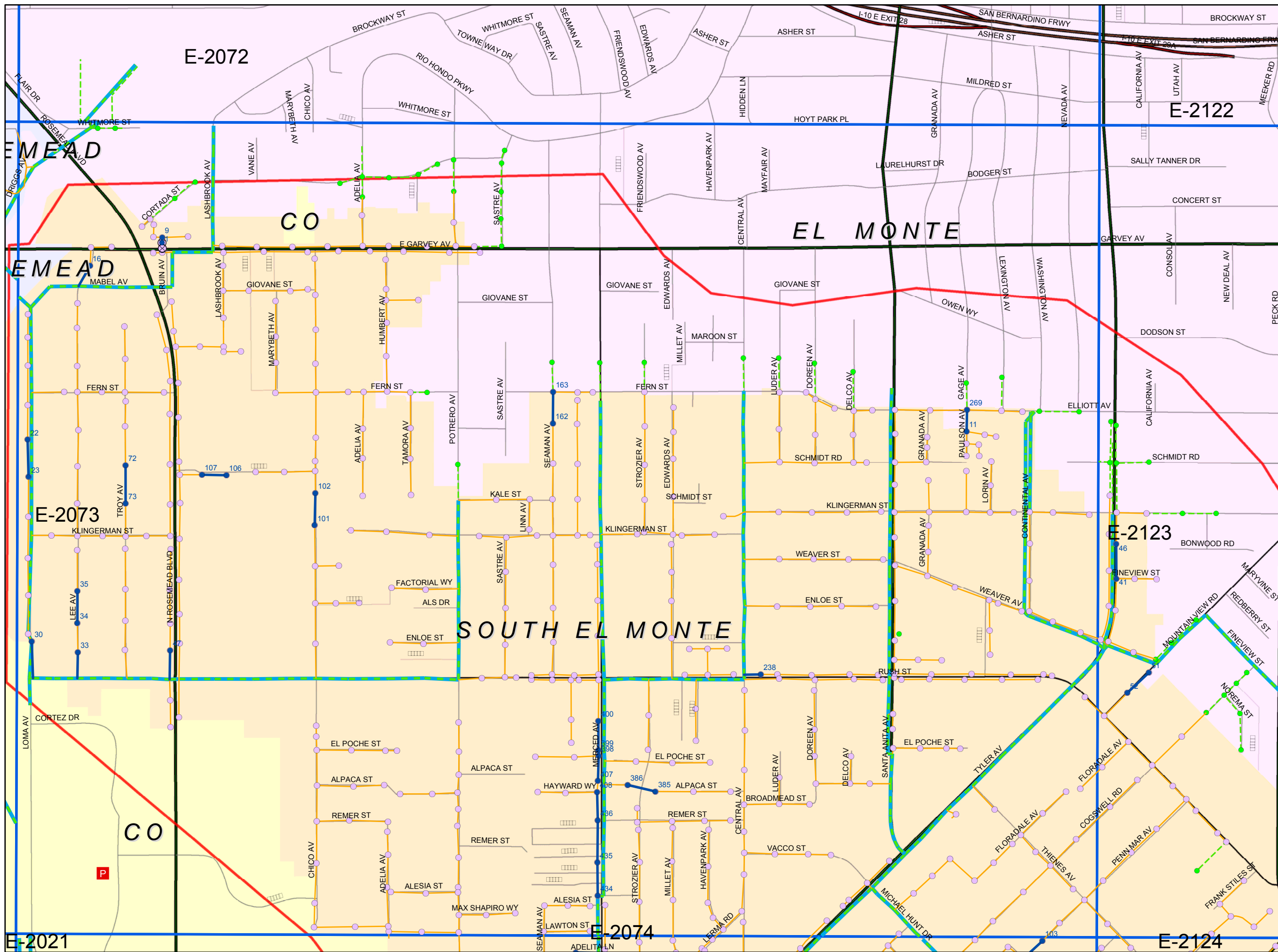
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- MH: High Water Levels
- SMD Treatment Plants
- SMD Pump Station

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

This map is intended only for internal operations of the Los Angeles County Sewer Maintenance Districts. Los Angeles County expressly disclaims any liability for any inaccuracies which may be present in this map. Data contained in this map is produced in whole or part from the Thomas Bros. Maps digital database. This map is copyrighted, and reproduced with permission granted, by Thomas Bros. Maps. All rights reserved.

SEPTEMBER 2010

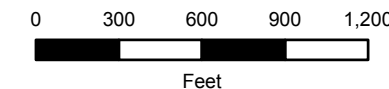


ENCLOSURE 2

CCTV PROJECT Y0TV0910B

Supervisorial District 1
CITY OF SOUTH EL MONTE

HIGH WATER LEVELS



Legend

— High Water Levels

SMD Manholes

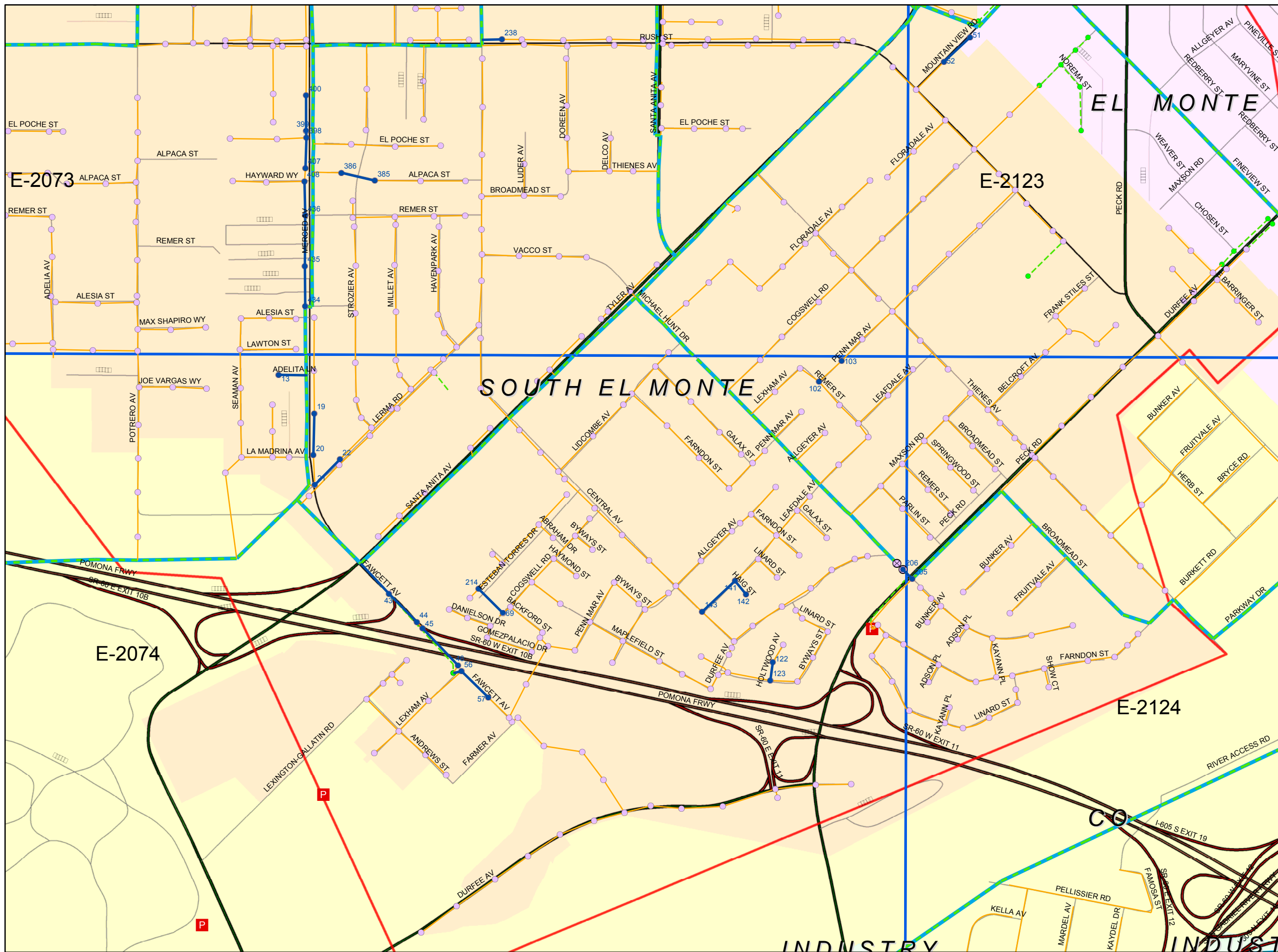
- ⊗ Other
- Manhole Type**
- Standard
- ▲ DROP
- ◻ Shallow
- ◇ Trap
- ⊗ Siphon
- MH: High Water Levels
- WTP SMD Treatment Plants
- P SMD Pump Station

Maintained by Others:

- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- ▭ CCTV PROJECT AREA

This map is intended only for internal operations of the Los Angeles County Sewer Maintenance Districts. Los Angeles County expressly disclaims any liability for any inaccuracies which may be present in this map. Data contained in this map is produced in whole or part from the Thomas Bros. Maps digital database. This map is copyrighted, and reproduced with permission granted, by Thomas Bros. Maps. All rights reserved.

SEPTEMBER 2010





GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

August 19, 2010

Current Property Owner
3476 Marengo Ave
Altadena, CA 91001

Dear Property Owner:

SEWER LATERAL ROOT INTRUSION 3476 MARENGO AVE, ALTADENA, CALIFORNIA 91001

As the agency responsible for the maintenance of the sanitary sewer system in your area, the County of Los Angeles Consolidated Sewer Maintenance District (District) is providing you with this letter informing you that the sewer lateral serving the property located at 3476 Marengo Ave, Altadena, California 91001, requires maintenance and is in violation of **County Code 20.24.080 Maintenance of Sewer Laterals**, which states:

☐ All house laterals, industrial connection sewers, septic tank outlet connections to STEP system, and appurtenances thereto existing as of January 23, 1953, or thereafter constructed, shall be maintained by the owner of the property served in a safe and sanitary condition, and all devices or safeguards which are required by this Division 2 for the operation thereof shall be maintained in good working order.☐

Using closed-circuit television (CCTV) camera technology, the District recently televised the sanitary sewer mainline and discovered the presence of roots in your sewer lateral connection. The intrusion of the roots from your lateral may block the flow of sewage in the mainline sewer causing a sanitary sewer overflow upstream of your property.

Since the CCTV inspection, the sewer mainline has been cleaned and blockages from root growth have been removed; however, the root blockage in your sewer lateral is still present. As the property owner, you are responsible for the entire length of the sewer lateral, which includes the portion that extends beyond the property line into the public right of way. We request that you contact a qualified plumbing contractor to service

IN REPLY PLEASE

REFER TO FILE:

SM-1

Current Property Owner
August 19, 2010
Page 2

your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup. Failure to do so may result in future overflows and subject you to civil prosecution, reimbursement costs, and fines up to \$1,000. Reference 20.24.160 Violation - Penalty; 20.24.170 Continued violations; 20.32.690 Reimbursement for repairs and maintenance following violations.

Prior to your plumbing contractor servicing your lateral, please notify the District's sewer maintenance yard in your area at (626) 446-5227 to arrange for authorization to access the downstream manhole.

During your lateral service, your plumbing contractor must protect the District's sewer mainlines from dislodged roots and other debris by utilizing catcher baskets at the manhole downstream from your lateral connection.

After your lateral has been serviced, please notify the District office, Mr. Fernando Villaluna, Sewer Maintenance Division, at (626) 300-3380 or fvillalun@dpw.lacounty.gov.

For your reference, we have enclosed photos of your lateral connection showing the presence of the root blockage. Also enclosed are some literature on ways of minimizing sewer overflows and damage to your home.

Thank you for helping the Department of Public Works keep the public's sewers clean and in good working order.

Very truly yours,

GAIL FARBER
Director of Public Works

JOHN T. WALKER
Assistant Deputy Director
Sewer Maintenance Division

PK:

Enc.

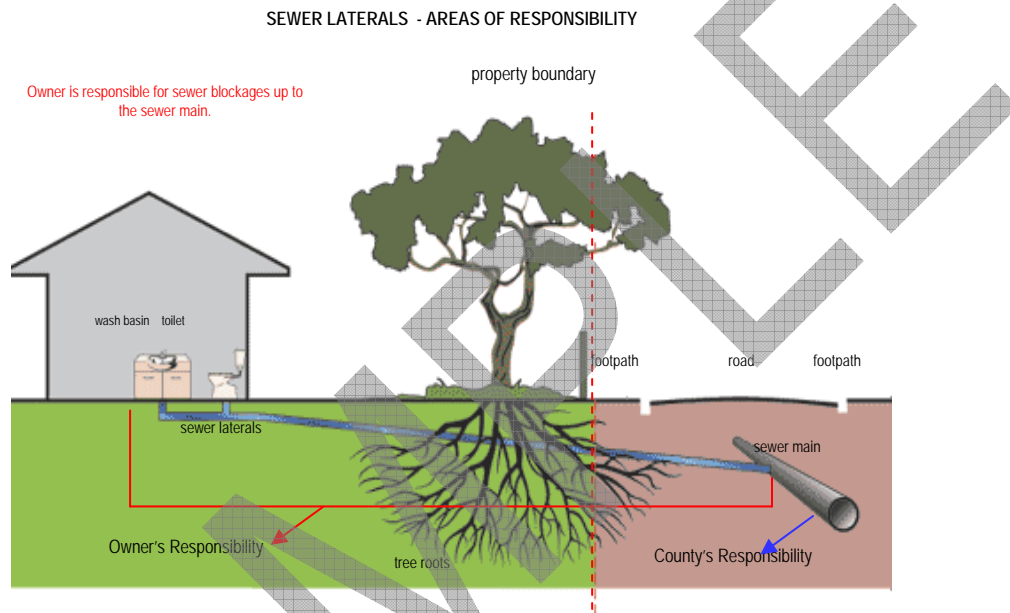
bc: JW, KL, RS, FV, RH, File (Lateral Notice), SPINDLE

3476 MARENGO AVE
ALTADENA
Roots at Lateral Connection



Minimizing Sewer Overflows and Damage to Your Home

The sewer system within the County of Los Angeles Consolidated Sewer Maintenance District (District) is comprised of a series of underground pipes. Many are publicly owned; however, the sewer laterals are entirely owned by the private property owner they serve. The laterals extend from the building to the mainline within the street (or within an easement at the rear of your home). The laterals are typically four inches in diameter while the District's mainline is typically at least eight inches in diameter. The private property owner is responsible for the entire length of the lateral, which includes that portion that may be located within the public right of way (under the asphalt and street landscaping).



Sewer backups can cause tremendous damage to the interior of a home. In order to minimize these, the District provides continual maintenance services for the public sewer mainlines.

Unfortunately, sewer laterals are often not maintained by private property owners until a disaster strikes. Out of sight, out of mind is a typical approach to sewer lateral maintenance and operation by many. It is our hope that we can provide you various means of addressing these issues and thus minimize your risk of an overflow entering your home.

The three methods we suggest are:

1. Maintain your lateral through proper cleaning, repair, and replacement
2. Do not place improper items into the sewer or make improper connections to the sewer
 - a. Keep rainwater out of the sewer lines as it overwhelms the capacity of the sewer lines and may cause sewer spills.
 - b. Do not pour fats, oils, and grease in your drains as these products harden and stick to the inside of the sewer pipes, which build up and may eventually cause a blockage in the sewer pipe.
3. Install a backflow preventer and cleanout in your sewer lateral.

ENCLOSURE 3:

- Quick Structural Rating Report
Priority List
- Quick Structural Rating Map

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF SOUTH EL MONTE (Y0TV0910B)
as of 05/05/10

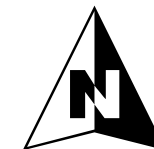
| ITEM NO | QSR | START MH | END MH | STREET | OBSERVATION: LOCATION | PROPOSED CORRECTIVE METHOD | LENGTH OF REPAIR (FT) |
|---------|------|-----------|-----------|------------------------------------|---|---|-----------------------|
| 1 | 5241 | 2073-0369 | 2073-0368 | BROADMEAD ST | Fracture: 9'; hole/joint offset: 18' | Point Repair (East Yard) | |
| 2 | 5233 | 2073-0384 | 2073-0385 | ALPACA ST | Broken: 13', 108'; fractures and cracks | Lining: MH to MH | 350 |
| 3 | 5144 | 2074-0147 | 2074-0148 | ALLGEYER AVE | Broken: 264'; fractures: 150', 205'; cracks | Lining: MH to MH; Top Hat (lateral): 153' | 328 |
| 4 | 5131 | 2073-0091 | 2073-TRNK | ROSEMEAD BLVD | Hole (external patch): 343' | Structural integrity in tact. No action needed. | |
| 5 | 5131 | 2073-0104 | 2073-0105 | EASEMENT S/O FERN ST AND CHICO AVE | Hole with visible void: 98' | Point Repair (East Yard) | |
| 6 | 5131 | 2074-0171 | 2074-0172 | DURFEE AV | Hole (external patch): 9' | Point Repair (East Yard) | |
| 7 | 5100 | 2074-0137 | 2074-0145 | FARNDON ST | Broken: 32' | Structural integrity in tact. No action needed. | |
| 8 | 5100 | 2124-0215 | 2124-0218 | DURFEE RD | Broken: 60' | Point Repair (East Yard) | |
| 9 | 4338 | 2074-0148 | 2074-0149 | ALLGEYER AVE | Fractures: 25', 139', 225' | Lining: MH to MH | 295 |
| 10 | 423C | 2073-0385 | 2073-0386 | ALPACA ST | Fractures: 7', 20' | Structural integrity in tact. No action needed. | |
| 11 | 423A | 2074-0027 | 2073-0422 | MILLET AVE | Fractures: 4', 16' | Structural integrity in tact. No action needed. | |
| 12 | 4234 | 2073-0411 | 2073-0412 | REMER ST | Fractures and cracks | Structural integrity in tact. No action needed. | |
| 13 | 4232 | 2073-0415 | 2073-0416 | HAVENPARK AVE | Fractures: 246', 306' | Structural integrity in tact. No action needed. | |
| 14 | 4200 | 2073-0035 | 2073-0036 | LEE AVE | Fractures: 147', 150' | Structural integrity in tact. No action needed. | |
| 15 | 4200 | 2073-0047 | 2073-TRNK | ROSEMEAD BLVD | Broken/fractures: 308' | Point Repair (East Yard) | |
| 16 | 4200 | 2073-0338 | 2073-0341 | THIENES AV | Fractures: 10' | Structural integrity in tact. No action needed. | |
| 17 | 4200 | 2073-0390 | 2073-0391 | EL POCHE ST | Broken (below flowline): 273' | Point Repair (East Yard) | |
| 18 | 4200 | 2074-0112 | 2074-0114 | LINARD ST | Fractures: 90' | Structural integrity in tact. No action needed. | |
| 19 | 4200 | 2124-0249 | 2124-0250 | ADSON PL | Fractures: 51' | Structural integrity in tact. No action needed. | |
| 20 | 4136 | 2073-0410 | 2073-0411 | REMER ST | Fractures: 39' | Structural integrity in tact. No action needed. | |
| 21 | 4135 | 2073-0414 | 2073-0415 | HAVENPARK AVE | Fractures: 92' | Structural integrity in tact. No action needed. | |
| 22 | 4135 | 2073-0422 | 2073-0423 | MILLET AVE | Fractures: 74' | Structural integrity in tact. No action needed. | |
| 23 | 4134 | 2073-0373 | 2073-0374 | THIENES ST | Broken: 9'; cracks | Lining: MH to MH | 178 |
| 24 | 4133 | 2073-0374 | 2073-TRNK | THIENES ST | Fractures: 50' | Structural integrity in tact. No action needed. | |
| 25 | 4133 | 2074-0027 | 2074-0028 | MILLET AVE | Fractures: 37' | Structural integrity in tact. No action needed. | |
| 26 | 4132 | 2073-0366 | 2073-0367 | CENTRAL AVE | Fractures: 4' | Structural integrity in tact. No action needed. | |
| 27 | 4132 | 2073-0417 | 2073-0418 | HAVENPARK AVE | Fractures: 82' | Structural integrity in tact. No action needed. | |
| 28 | 4132 | 2073-0419 | 2073-0420 | CENTRAL AVE | Fractures: 4' | Structural integrity in tact. No action needed. | |
| 29 | 4132 | 2074-0020 | 2074-0021 | MERCED AVE | Fractures: 88' | Structural integrity in tact. No action needed. | |
| 30 | 4132 | 2074-0030 | 2074-0031 | LERMA RD | Fractures: 48' | Structural integrity in tact. No action needed. | |
| 31 | 4131 | 2074-0109 | 2074-0110 | PARLIN ST | Crack: 201' | Structural integrity in tact. No action needed. | |
| 32 | 4131 | 2074-0112 | 2074-0113 | FARNDON ST | Fractures: 22' | Structural integrity in tact. No action needed. | |
| 33 | 4131 | 2074-0120 | 2074-0123 | BYWAYS ST | Fractures (at flowline): 192'; cracks | Point Repair (East Yard) | |
| 34 | 4131 | 2074-0122 | 2074-0123 | HOLTWOOD AVE | Fractures: 105' | Structural integrity in tact. No action needed. | |
| 35 | 4131 | 2074-0140 | 2074-0141 | LEAFDALE AVE | Fractures: 198', 257' | Structural integrity in tact. No action needed. | |
| 36 | 4121 | 2073-0086 | 2073-0107 | | Fractures: 5', 18' | Lining: MH to MH; CSMD to repair base of MH 107 | 197 |
| 37 | 4111 | 2073-0016 | 2073-TRNK | LEE AVE | Fractures: 85' | Structural integrity in tact. No action needed. | |
| 38 | 4100 | 2073-0375 | 2073-0387 | GARVEY AVE | Hole: 227 | Structural integrity in tact. No action needed. | |
| 39 | 4100 | 2073-0434 | 2073-0435 | MERCED AVE | Fractures (external patch): 337' | Structural integrity in tact. No action needed. | |
| 40 | 4100 | 2074-0023 | 2074-0024 | STROZIER AVE | Fractures: 71' | Structural integrity in tact. No action needed. | |
| 41 | 4100 | 2074-0041 | 2074-TRNK | SANTA ANITA AVE | Fractures: 4' | Structural integrity in tact. No action needed. | |
| 42 | 4100 | 2074-0060 | 2074-0061 | | Fractures: 286' | Structural integrity in tact. No action needed. | |
| 43 | 4100 | 2074-0128 | 2074-0129 | DURFEE AVE | Fractures: 8' | Structural integrity in tact. No action needed. | |
| 44 | 4100 | 2123-0076 | 2123-0083 | DURFEE AVE | Fractures: 294' | Structural integrity in tact. No action needed. | |
| 45 | 4100 | 2124-0207 | 2074-0108 | REMER ST | Fractures: 206' | Structural integrity in tact. No action needed. | |

ENCLOSURE 3

CCTV PROJECT Y0TV0910B

Supervisorial District 1
CITY OF SOUTH EL MONTE

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

- QSR**
- 1: EXCELLENT (Green line)
 - 2: GOOD (Blue line)
 - 3: FAIR (Yellow line)
 - 4: POOR (Pink line)
 - 5: IMMEDIATE ATTENTION (Red line)

SMD Manholes

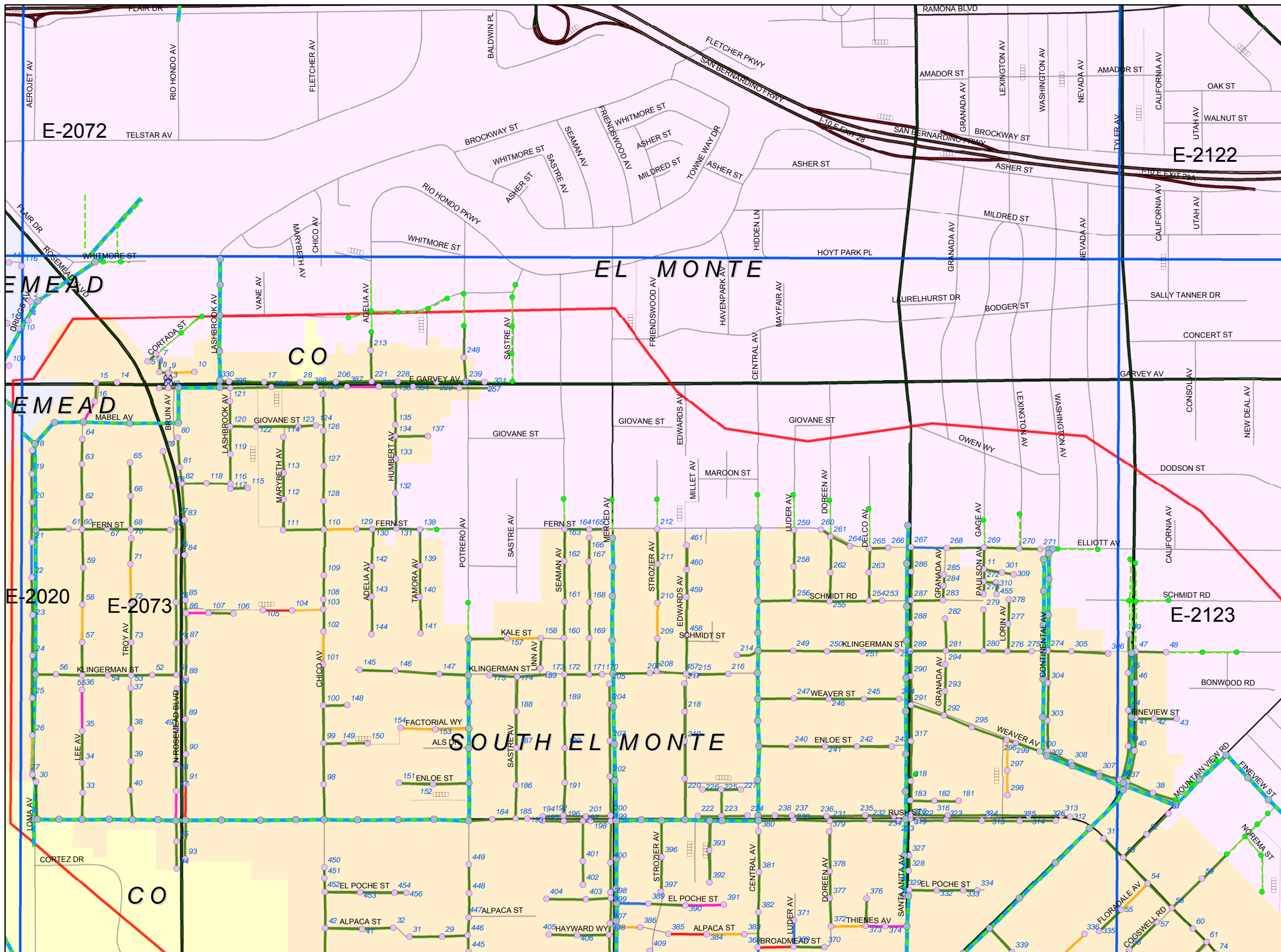
- Other (Circle with dot)
- Manhole Type**
 - Standard (Purple circle)
 - DROP (Purple triangle)
 - Shallow (Purple square)
 - Trap (Purple diamond)
 - Siphon (Purple circle with cross)
- WTP SMD Treatment Plants (Red square with WTP)
- SMD Pump Station (Red square with P)

Maintained by Others:

- Trunk Sewerlines (Thick green line)
- Non SMD Sanitary Sewers (Dashed green line)
- Non SMD Maintained MH (Green circle)
- SMD Operations Maps (Blue outline)
- CCTV PROJECT AREA (Red outline)

This map is intended only for internal operations of the Los Angeles County Sewer Maintenance Districts. Los Angeles County expressly disclaims any liability for any inaccuracies which may be present in this map. Data contained in this map is produced in whole or part from the Thomas Bros. Maps digital database. This map is copyrighted, and reproduced with permission granted, by Thomas Bros. Maps. All rights reserved.

SEPTEMBER 2010



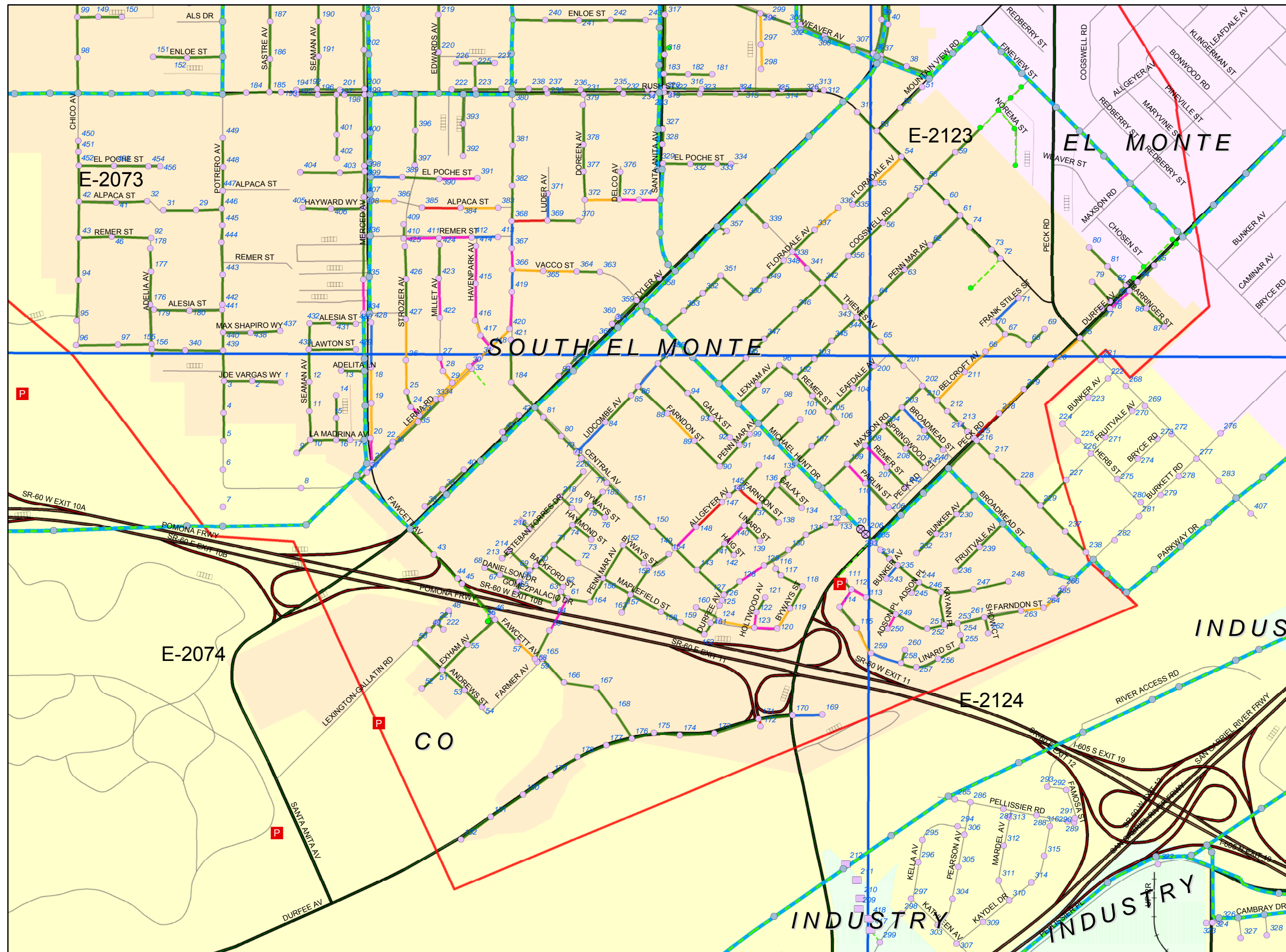
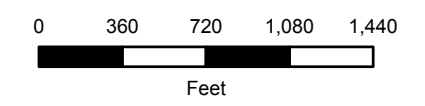
ENCLOSURE 3

CCTV PROJECT

Y0TV0910B

Supervisorial District 1
CITY OF SOUTH EL MONTE

QUICK STRUCTURAL RATING (QSR)



Legend

- SMD Sanitary Sewers QSR**
- 1: EXCELLENT
 - 2: GOOD
 - 3: FAIR
 - 4: POOR
 - 5: IMMEDIATE ATTENTION

SMD Manholes

- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon

- WTP SMD Treatment Plants
- P SMD Pump Station

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

This map is intended only for internal operations of the Los Angeles County Sewer Maintenance Districts. Los Angeles County expressly disclaims any liability for any inaccuracies which may be present in this map. Data contained in this map is produced in whole or part from the Thomas Bros. Maps digital database. This map is copyrighted, and reproduced with permission granted, by Thomas Bros. Maps. All rights reserved.
SEPTEMBER 2010

ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100302 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 476 | PSR: 120465 |
| Total Pipe Length: 326 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.02.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: BROADMEAD ST | Flow Control: N Not Controlled | Start MH: 2073-0368 |
| City: SEM | Year Renewed | End MH: 2073-0369 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 309.85 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 326 |
| Drain. Area: 0368 2073-0369 2073 | Lining Method: |
| | Category: |

Remark:: **MH ☐S REVERSED ON MAP**

| 1:775 | position | observation | MPEG | photo | grade |
|-------|----------|---|----------|---------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0369 | | 8236 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 4.92 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:00:49 | 8237 | |
| | 56.58 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:02:18 | 8238 | |
| | 85.77 | Crack Circumferential, from 04 to 12 o'clock, within 8 inch: YES | 00:03:12 | 8239, b | S 1 |
| | 104.25 | Crack Multiple, from 07 to 12 o'clock, within 8 inch: YES | 00:03:50 | 8241, b | S 3 |
| | 108.31 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:04:06 | 8243 | |
| | 113.90 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:22 | 8244 | |
| | 161.35 | Crack Multiple, from 07 to 03 o'clock, within 8 inch: YES | 00:05:45 | 8245, b | S 3 |
| | 162.53 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:06:08 | 8247 | |
| | 164.95 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:06:20 | 8248 | |
| | 200.42 | Crack Circumferential, from 04 to 05 o'clock, within 8 inch: YES | 00:07:27 | 8249, b | S 1 |
| | 206.62 | Crack Multiple, from 12 to 05 o'clock, within 8 inch: YES | 00:07:49 | 8251, b | S 3 |
| | 216.70 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:08:17 | 8253 | |
| | 219.37 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:08:29 | 8254 | |
| | 220.95 | Fracture Longitudinal, at 03 o'clock, within 8 inch: YES | 00:08:43 | 8255, b | S 3 |
| | 223.19 | Fracture Circumferential, from 12 to 12 o'clock, within 8 inch: YES | 00:09:02 | 8257, b | S 2 |
| | 227.03 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:09:38 | 8259, b | S 3 |
| | 227.03 | Fracture Circumferential, from 03 to 06 o'clock, within 8 inch: YES | 00:10:13 | 8261, b | S 2 |
| | 270.84 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:11:40 | 8263 | |
| | 273.43 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:11:53 | 8264 | |
| | 293.09 | Water Level, Sag in pipe, 15 ☐ of cross sectional area | 00:12:33 | | M 2 |
| | 308.46 | Joint Offset Medium | 00:13:13 | 8265 | S 1 |
| | 309.85 | Survey Abandoned, Remark: CAMARA BLOCKE AT JOIN | 00:16:38 | 8266, b | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 3522 | 2300 | 22 | 6 | 28 | 2.2 | 2 | 2.15 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100301 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 484 | PSR: 120481 |
| Total Pipe Length: 397 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.01 2010 | Pre-Cleaned: J Jetting | Map Grid #: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: ALPACA ST | Flow Control: N Not Controlled | Start MH: 2073-0384 |
| City: SEM | Year Renewed: | End MH: 2073-0385 |
| Location Code: C Light Highway | Tape/Media #: | pipe length: 110.29 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 397 |
| Drain. Area: 0384 2073-0385 2073 | Lining Method: |
| | Category: |

Remark: **MH #'S REVERSED ON MAP**

| 1:275 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|---------|-------|
| | 0.00 | Downstream Manhole, Survey Begins 2073-0385 | | 8381 | |
| | 0.00 | Water Level, 5 of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 10 # of cross sectional area | | | M 2 |
| | 13.42 | Broken Soil Visible, from 06 to 11 o'clock, within 8 inch: YES | 00:01:08 | 8382, b | S 5 |
| | 13.54 | Crack Multiple, from 04 to 08 o'clock, within 8 inch: YES | 00:01:27 | 8384, b | S 3 |
| | 31.23 | Crack Multiple, from 03 to 04 o'clock, within 8 inch: YES | 00:02:22 | 8386, b | S 3 |
| | 34.28 | Crack Multiple, from 12 to 03 o'clock, within 8 inch: YES | 00:02:45 | 8388, b | S 3 |
| | 39.06 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:03:16 | 8390 | |
| | 62.67 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:21 | 8391 | |
| | 108.64 | Broken, from 04 to 08 o'clock, within 8 inch: YES | 00:05:58 | 8392, b | S 5 |
| | 110.29 | Survey Abandoned, Remark: BROKEN PIPE | 00:07:13 | 8394 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 5233 | 2200 | 19 | 4 | 23 | 3.8 | 2 | 3.29 |



Inspection report

| | | | | | |
|--------------------------|-------------------------------|-----------------------------|----------------------------------|---|----------------------------|
| Date: 20100302 | P.O. #: YOTV080910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 472 | PSR: 120481 |
| Total Pipe Length: | Survey Customer: | System Owner: SEM | Clean Date: 03.02.2010 | Pre-Cleaned: H Heavy Cleaning | Map Grid #: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: ALPACA ST | Flow Control: N Not Controlled | Start MH: 2073-0385 |
| City: SEM | Year Renewed: | End MH: 2073-0384 |
| Location Code: C Light Highway | Tape/Media #: | pipe length: 235.99 ft |

| | |
|---|---|
| Reason for inspection: A Maintenance Related | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: REVERSED |
| Drain. Area: 0385/2073-0384-2073 | Lining Method: |
| | Category: |

Remark:: **MH #'S REVERSED ON MAP**

| 1:462 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|---------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0384 | | 8155 | |
| | 0.00 | Water Level, 5' of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5' of cross sectional area | | | M 2 |
| | 4.30 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:00:46 | 8156 | |
| | 23.80 | Crack Multiple, from 03 to 05 o'clock, within 8 inch: YES | 00:01:34 | 8157, b | S 3 |
| | 32.79 | Crack Multiple, from 04 to 08 o'clock, within 8 inch: YES | 00:02:11 | 8159, b | S 3 |
| | 41.71 | Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES | 00:02:48 | 8161, b | S 3 |
| | 52.09 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:03:23 | 8163 | |
| | 63.93 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:03:53 | 8164 | |
| | 74.04 | Crack Multiple, from 03 to 05 o'clock, within 8 inch: YES | 00:04:22 | 8165, b | S 3 |
| | 75.15 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:37 | 8167 | |
| | 76.73 | Crack Multiple, from 02 to 05 o'clock, within 8 inch: YES | 00:04:49 | 8168, b | S 3 |
| | 83.77 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:05:19 | 8170 | |
| | 88.16 | Crack Multiple, from 03 to 08 o'clock, within 8 inch: YES | 00:05:37 | 8171, b | S 3 |
| | 97.30 | Crack Longitudinal, at 04 o'clock, within 8 inch: YES | 00:06:20 | 8173, b | S 2 |
| | 112.12 | Crack Circumferential, from 12 to 05 o'clock, within 8 inch: YES | 00:07:03 | 8175, b | S 1 |
| | 131.42 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:07:49 | 8177 | |
| | 135.36 | Water Level, Sag in pipe, 20' of cross sectional area | 00:08:08 | | M 2 |
| | 141.84 | Crack Circumferential, from 01 to 04 o'clock, within 8 inch: YES | 00:08:25 | 8178, b | S 1 |
| | 144.90 | Crack Multiple, from 02 to 04 o'clock, within 8 inch: YES | 00:08:43 | 8180, b | S 3 |
| | 151.86 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:09:13 | 8182 | |
| | 159.41 | Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES | 00:09:37 | 8183, b | S 3 |
| | 168.38 | Crack Multiple, from 04 to 05 o'clock, within 8 inch: YES | 00:10:19 | 8185, b | S 3 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|--------------------------|-------------------------------|-----------------------------|----------------------------------|---|----------------------------|
| Date: 20100302 | P.O. #: YOTV080910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 472 | PSR: 120481 |
| Total Pipe Length: | Survey Customer: | System Owner: SEM | Clean Date: 03.02.2010 | Pre-Cleaned: H Heavy Cleaning | Map Grid #: 2073 |

| 1:462 | position | observation | MPEG | photo | grade |
|-------|---------------|--|----------|---------|-------|
| | 202.60 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:11:45 | 8187 | |
| | <u>203.98</u> | Crack Circumferential, from 07 to 12 o'clock, within 8 inch: YES | 00:11:58 | 8188, b | S 1 |
| | 214.32 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:12:35 | 8190 | |
| | 225.89 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:13:09 | 8191 | |
| | 231.44 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:13:32 | 8192 | |
| | <u>233.04</u> | Crack Circumferential, from 12 to 06 o'clock, within 8 inch: YES | 00:13:44 | 8193, b | S 1 |
| | <u>235.44</u> | Broken, from 08 to 12 o'clock, within 8 inch: YES | 00:14:06 | 8195, b | S 5 |
| | 235.99 | Survey Abandoned, Remark: REVERSED COMPLETED | 00:15:22 | 8197, b | |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100413 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1515 | PSR: 120245 |
| Total Pipe Length: 328 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04.13.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2074 |

| | | |
|---------------------------------------|---------------------------------------|----------------------------|
| Street: ALLGEYER AV | Flow Control: N Not Controlled | Start MH: 2074-0147 |
| City: SEM | Year Renewed | End MH: 2074-0148 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 328 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 328 |
| Drain. Area: 0147 2074-0148 2074 | Lining Method: |
| | Category: |

Remark:: **NONE**

| 1:594 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2074-0147 | | 26422 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 ☐ of cross sectional area | 00:00:50 | | M 2 |
| | 3.00 | Vermin Cockroach, within 8 inch: YES | 00:00:54 | 26423, b | M 1 |
| | 5.91 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:01:16 | 26425 | |
| | 8.66 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:01:31 | 26426 | |
| | 13.43 | Crack Longitudinal, at 03 o'clock, within 8 inch: YES | 00:01:49 | 26427, b | S 2 |
| | 16.49 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:02:20 | 26429, b | S 3 |
| | 38.00 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:03:16 | 26431 | |
| | 43.83 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:03:33 | 26432 | |
| | 93.57 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:09 | 26433 | |
| | 99.56 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:05:33 | 26434 | |
| | 124.68 | Crack Multiple, from 02 to 05 o'clock, within 8 inch: YES | 00:06:20 | 26435, b | S 3 |
| | 149.36 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:07:11 | 26437 | |
| | 150.96 | Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:07:26 | 26438, b | S 4 |
| | 152.15 | Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: brocken | 00:07:57 | 26440 | M 2 |
| | 153.18 | Fracture Multiple, from 07 to 11 o'clock, within 8 inch: YES | 00:08:04 | 26441, b | S 4 |
| | 159.79 | Crack Multiple, from 10 to 04 o'clock, within 8 inch: YES | 00:08:32 | 26443, b | S 3 |
| | 186.96 | Fracture Longitudinal, at 04 o'clock, within 8 inch: YES | 00:09:43 | 26445, b | S 3 |
| | 198.26 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:10:14 | 26447 | |
| | 204.05 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:10:31 | 26448 | |
| | 205.18 | Fracture Multiple, from 04 to 09 o'clock, within 8 inch: YES | 00:10:49 | 26449, b | S 4 |
| | 208.60 | Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES | 00:11:21 | 26451, b | S 4 |
| | 242.97 | Crack Longitudinal, at 03 o'clock, within 8 inch: YES | 00:12:33 | 26453, b | S 2 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100413 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1515 | PSR: 120245 |
| Total Pipe Length: 328 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04.13.2010 | Pre-Cleaned: J Jetting | Map Grid #: 2074 |

| 1:594 | position | observation | MPEG | photo | grade |
|-------|---------------|--|----------|----------|-------|
| | <u>254.07</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:13:01 | 26455 | |
| | <u>255.58</u> | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:13:11 | 26456, b | S 3 |
| | <u>256.41</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:13:34 | 26458 | |
| | <u>261.12</u> | Fracture Longitudinal, at 04 o'clock, within 8 inch: YES | 00:13:49 | 26459, b | S 3 |
| | <u>264.06</u> | Broken Soil Visible, from 05 to 08 o'clock, within 8 inch: YES | 00:14:08 | 26461, b | S 5 |
| | <u>281.99</u> | Crack Longitudinal, at 09 o'clock, within 8 inch: YES | 00:16:24 | 26463, b | S 2 |
| | <u>306.82</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:17:12 | 26465 | |
| | <u>309.26</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:17:23 | 26466 | |
| | <u>320.55</u> | Crack Longitudinal, at 03 o'clock, within 8 inch: YES | 00:17:48 | 26467, b | S 2 |
| | <u>328.00</u> | Downstream Manhole, Survey Ends 2074-0148 | 00:18:27 | 26469 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 5144 | 2311 | 47 | 7 | 54 | 3.13 | 1.75 | 2.84 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100430 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1926 | PSR: 120767 |
| Total Pipe Length: 303 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04.30.2010 | Pre-Cleaned: J Jetting | Map Grid #: 2073 |

| | | |
|---|---------------------------------------|-------------------------------|
| Street: ROSEMEAD BV | Flow Control: N Not Controlled | Start MH: 2073-0091 |
| City: SEM | Year Renewed: | End MH: 2073-TRNK |
| Location Code: B Main Highway - Suburban Rural | Tape/Media #: | pipe length: 352.43 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 303 |
| Drain. Area: 0091 2073-TRNK 2073 | Lining Method: |
| | Category: |

Remark.: **NONE**

| 1:875 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|-------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0091 | | 12 | |
| | 0.00 | Water Level, 5' of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 15' of cross sectional area | | | M 2 |
| | 112.85 | Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES | 00:03:39 | 13 | |
| | 191.14 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:06:07 | 14 | |
| | 233.22 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:07:22 | 15 | |
| | 333.84 | Crack Longitudinal, at 02 o'clock, within 8 inch: YES | 00:10:29 | 16, b | S 2 |
| | 337.32 | Fracture Longitudinal, at 08 o'clock, within 8 inch: YES | 00:10:47 | 18, b | S 3 |
| | 343.35 | Broken Soil Visible, from 12 to 02 o'clock, within 8 inch: YES | 00:11:15 | 20, b | S 5 |
| | 352.43 | Downstream Manhole, Survey Ends 2073-TRNK | 00:12:21 | 22 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 5131 | 2200 | 10 | 4 | 14 | 3.33 | 2 | 2.8 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100219 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 258 | PSR: 120783 |
| Total Pipe Length: 290 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 02:19 2010 | Pre-Cleaned: J Jetting | Map Grid #: 2073 |

| | | |
|---|---------------------------------------|----------------------------|
| Street: | Flow Control: N Not Controlled | Start MH: 2073-0104 |
| City: SEM | Year Renewed | End MH: 2073-0105 |
| Location Code: D Easement Right of Way | Tape/Media # | pipe length: 99 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 290 |
| Drain. Area: 0104:2073-0105:2073 | Lining Method: |
| | Category: |

Remark: **MH #'S REVERSED ON MAP**

| 1:250 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|---------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0105 | | 4593 | |
| | 0.00 | Water Level, 5' of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 10' of cross sectional area | | | M 2 |
| | 5.90 | Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES | 00:00:58 | 4594 | |
| | 33.00 | Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES | 00:02:12 | 4595 | |
| | 79.05 | Crack Longitudinal, at 12 o'clock, within 8 inch: YES | 00:03:51 | 4596, b | S 2 |
| | 80.10 | Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES | 00:04:16 | 4598 | |
| | 95.77 | Crack Multiple, from 09 to 02 o'clock, within 8 inch: YES | 00:05:03 | 4599, b | S 3 |
| | 98.77 | Hole Void Visible, from 02 to 09 o'clock, within 8 inch: YES | 00:07:40 | 4601, b | S 5 |
| | 99.00 | Survey Abandoned, Remark: PIPE BROKEN | 00:07:08 | 11, b | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 5131 | 2200 | 10 | 4 | 14 | 3.33 | 2 | 2.8 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|--------------------------|-----------------------------|--------------------------------|----------------------------------|----------------------------------|-----------------------|
| Date: 20100219 | P.O. #: YOTV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 256 | PSR: 120783 |
| Total Pipe Length: | Survey Customer: | System Owner: LACDPW | Clean Date: 02:19 2010 | Pre-Cleaned: J Jetting | Map Grid #: |

| | | |
|---|---------------------------------------|-------------------------------|
| Street: | Flow Control: N Not Controlled | Start MH: 2073-0105 |
| City: SEM | Year Renewed | End MH: 2073-0104 |
| Location Code: D Easement Right of Way | Tape/Media #: | pipe length: 188.44 ft |

| | |
|---|---|
| Reason for inspection: | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: REVERSED |
| Drain. Area: 0105 2073-0104 2073 | Lining Method: |
| | Category: |

Remark: **REVERSED**

| 1:475 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|---------|-------|
| | 0.00 | Downstream Manhole, Survey Begins 2073-0104 | | 4560 | |
| | 0.00 | Water Level, 5' of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 10' of cross sectional area | | | M 2 |
| | 31.50 | Crack Longitudinal, at 03 o'clock, within 8 inch: YES | 00:02:11 | 4561, b | S 2 |
| | 37.36 | Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: YES | 00:02:39 | 4563 | |
| | 47.45 | Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES | 00:03:05 | 4564 | |
| | 94.50 | Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES | 00:04:56 | 4565 | |
| | 111.22 | Water Mark, 20' of cross sectional area | 00:06:22 | | M 2 |
| | 128.40 | Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES | 00:07:00 | 4566 | |
| | 175.56 | Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES | 00:08:36 | 4567 | |
| | 188.44 | Survey Abandoned, Remark: REVERSED COMPLETED | 00:09:37 | 4568, b | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 2100 | 2300 | 2 | 6 | 8 | 2 | 2 | 2 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|---------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100427 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1889 | PSR: 120266 |
| Total Pipe Length: 67 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04 27 2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2074 |

| | | |
|---|---------------------------------------|------------------------------|
| Street: DURFEE AV | Flow Control: N Not Controlled | Start MH: 2074-0171 |
| City: SEM | Year Renewed | End MH: 2074-0172 |
| Location Code: D Easement Right of Way | Tape/Media ☐ | pipe length: 64.21 ft |

| | |
|--|---|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 67 |
| Drain. Area: 0171 2074-0172 2074 | Lining Method: |
| | Category: |

Remark.: **BROKEN PIPE**

| 1:175 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|-------|-------|
| | | Upstream Manhole, Survey Begins 2074-0172 | | 1 | |
| | 0.00 | | | | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 5.32 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:00:53 | 2, b | S 3 |
| | 9.14 | Broken Void Visible, from 07 to 12 o'clock, within 8 inch: YES | 00:01:20 | 4, b | S 5 |
| | 64.21 | Downstream Manhole, Survey Ends 2074-0171 | 00:03:54 | 6 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 5131 | 2200 | 8 | 4 | 12 | 4 | 2 | 3 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100413 | P.O.☐: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1509 | PSR: 120237 |
| Total Pipe Length: 262 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04.13.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2074 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: FARNDON ST | Flow Control: N Not Controlled | Start MH: 2074-0137 |
| City: SEM | Year Renewed | End MH: 2074-0145 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 262.45 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 262 |
| Drain. Area: 0137 2074-0145 2074 | Lining Method: |
| | Category: |

Remark.: **NONE**

| 1:650 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2074-0145 | | 26362 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 of cross sectional area | | | M 2 |
| | 32.14 | Broken Soil Visible, from 01 to 04 o'clock, within 8 inch: YES | 00:02:16 | 26363, b | S 5 |
| | 75.29 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:03:42 | 26365 | |
| | 132.75 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:23 | 26366 | |
| | 180.89 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:06:49 | 26367 | |
| | 262.45 | Downstream Manhole, Survey Ends 2074-0137 | 00:09:20 | 26368 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 5100 | 2200 | 5 | 4 | 9 | 5 | 2 | 3 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100429 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: B FUGATE | section number: 1870 | PSR: 115988 |
| Total Pipe Length: 322 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04 29 2010 | Pre-Cleaned: J Jetting | Map Grid #: 2124 |

| | | |
|--|---------------------------------------|------------------------------|
| Street: DURFEE RD | Flow Control: N Not Controlled | Start MH: 2124-0215 |
| City: SEM | Year Renewed: | End MH: 2124-0218 |
| Location Code: A Main Highway - Urban | Tape/Media #: | pipe length: 330.6 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 322 |
| Drain. Area: 0215 2124-0218 2124 | Lining Method: |
| | Category: |

Remark: **MH'S REVERSED ON DATABASE**

| 1:825 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|-------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2124-0218 | | 31 | |
| | 0.00 | Water Level, 5' of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5' of cross sectional area | | | M 2 |
| | 59.38 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:02:40 | 32 | |
| | 60.83 | Broken, from 09 to 04 o'clock, within 8 inch: YES | 00:03:00 | 33, b | S 5 |
| | 60.83 | Roots Fine Joint, from 01 to 04 o'clock, within 8 inch: YES | 00:03:25 | 35, b | |
| | 74.24 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:04:17 | 37 | |
| | 74.83 | Roots Fine Joint, from 03 to 04 o'clock, within 8 inch: YES | 00:04:25 | 38, b | |
| | 124.00 | Roots Fine Joint, from 08 to 10 o'clock, within 8 inch: YES | 00:06:21 | 40, b | |
| | 180.85 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:08:32 | 42 | |
| | 195.43 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:09:10 | 43 | |
| | 261.80 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:11:37 | 44 | |
| | 330.60 | Downstream Manhole, Survey Ends 2124-0215 | 00:14:45 | 45 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 5100 | 2200 | 5 | 4 | 9 | 5 | 2 | 3 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100413 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1516 | PSR: 120246 |
| Total Pipe Length: 273 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04.13.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2074 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: ALLGEYER AV | Flow Control: N Not Controlled | Start MH: 2074-0148 |
| City: SEM | Year Renewed | End MH: 2074-0149 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 295.69 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 273 |
| Drain. Area: 0148 2074-0149 2074 | Lining Method: |
| | Category: |

Remark:: **NONE**

| 1:561 | position | observation | MPEG | photo | grade |
|-------|-----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2074-0148 | | 26470 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 2.79 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:00:51 | 26471, b | S 3 |
| | 24.40 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:01:39 | 26473 | |
| | 25.19 | Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:01:55 | 26474, b | S 4 |
| | 26.01 | Roots Fine Joint, at 04 o'clock, within 8 inch: YES | 00:02:22 | 26476, b | |
| | 33.43 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:02:58 | 26478 | |
| | 65.05 | Crack Longitudinal, at 09 o'clock, within 8 inch: YES | 00:04:01 | 26479, b | S 2 |
| | 73.18 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:25 | 26481 | |
| | 78.98 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:04:43 | 26482 | |
| | 100.37 | Crack Longitudinal, at 04 o'clock, within 8 inch: YES | 00:05:34 | 26483, b | S 2 |
| | 132.24 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:06:36 | 26485 | |
| | 138.00 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:06:53 | 26486 | |
| | 139.34 | Fracture Multiple, from 03 to 10 o'clock, within 8 inch: YES | 00:07:05 | 26487, b | S 4 |
| | 142.85 | Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES | 00:07:26 | 26489, b | S 3 |
| | 176.43 | Crack Longitudinal, at 10 o'clock, within 8 inch: YES | 00:08:36 | 26491, b | S 2 |
| | 183.14 | Crack Multiple, from 07 to 10 o'clock, within 8 inch: YES | 00:08:59 | 26493, b | S 3 |
| | 186.72 S1 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start | 00:09:21 | 26495, b | S 3 |
| | 191.09 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:09:40 | 26497 | |
| | 197.07 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:09:58 | 26498 | |
| | 204.47 F1 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end | 00:10:17 | 26499 | S 3 |
| | 225.47 | Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES | 00:11:09 | 26500, b | S 4 |
| | 228.96 | Crack Multiple, from 04 to 08 o'clock, within 8 inch: YES | 00:11:33 | 26502, b | S 3 |



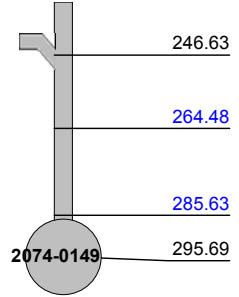
National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100413 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1516 | PSR: 120246 |
| Total Pipe Length: 273 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04.13.2010 | Pre-Cleaned: J Jetting | Map Grid #: 2074 |

| 1:561 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 246.63 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:12:16 | 26504 | |
| | 264.48 | Water Level, 20 % of cross sectional area | 00:12:55 | | M 2 |
| | 285.63 | Crack Longitudinal, at 12 o'clock, within 8 inch: YES | 00:13:43 | 26505, b | S 2 |
| | 295.69 | Downstream Manhole, Survey Ends 2074-0149 | 00:14:25 | 26507 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4338 | 2300 | 44 | 6 | 50 | 2.93 | 2 | 2.78 |





Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100301 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: B.FUGATE | section number: 485 | PSR: 120482 |
| Total Pipe Length: 305 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.01 2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: ALPACA ST | Flow Control: N Not Controlled | Start MH: 2073-0385 |
| City: SEM | Year Renewed | End MH: 2073-0386 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 264.33 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 305 |
| Drain. Area: 0385 2073-0386 2073 | Lining Method: |
| | Category: |

Remark:: **Cracks**

| 1:561 | position | observation | MPEG | photo | grade |
|-------|------------------|--|----------|---------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0385 | | 8395 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 10 ☐ of cross sectional area | | | M 2 |
| | 7.58 | Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:01:20 | 8396, b | S 4 |
| | 7.97 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:01:52 | 8398 | |
| | 18.66 | Crack Multiple, from 09 to 04 o'clock, within 8 inch: YES | 00:02:41 | 8399, b | S 3 |
| | 19.73 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:02:56 | 8401 | |
| | 20.41 | Fracture Multiple, from 12 to 03 o'clock, within 8 inch: YES | 00:03:06 | 8402, b | S 4 |
| | 29.25 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:03:36 | 8404 | |
| | 29.25 | Fracture Longitudinal, at 04 o'clock, within 8 inch: YES | 00:03:45 | 8405, b | S 3 |
| | 35.76 S1 | Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES, start | 00:04:14 | 8407, b | S 3 |
| | 71.33 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:05:39 | 8409 | |
| | 77.06 | Water Level, Sag in pipe, 70 ☐ of cross sectional area | 00:07:31 | 8410 | M 4 |
| | 77.06 | Camera Underwater | 00:07:35 | 8411 | M 4 |
| | 80.95 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:07:54 | 8412 | |
| | 106.51 | Water Level, 5 ☐ of cross sectional area | 00:08:54 | 8413 | M 2 |
| | 131.39 F1 | Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES, end | 00:09:40 | 8414 | S 3 |
| | 180.75 | Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES | 00:11:16 | 8415, b | S 3 |
| | 222.73 | Crack Circumferential, from 08 to 01 o'clock, within 8 inch: YES | 00:13:03 | 8417, b | S 1 |
| | 222.83 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:13:17 | 8419 | |
| | 222.93 | Crack Circumferential, from 12 to 03 o'clock, within 8 inch: YES | 00:13:29 | 8420, b | S 1 |
| | 225.36 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:13:42 | 8422 | |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100301 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: B.FUGATE | section number: 485 | PSR: 120482 |
| Total Pipe Length: 305 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.01.2010 | Pre-Cleaned: J Jetting | Map Grid #: 2073 |

| 1:561 | position | observation | MPEG | photo | grade |
|-------|---------------|--|----------|---------|-------|
| | <u>238.28</u> | Crack Circumferential, from 09 to 02 o'clock, within 8 inch: YES | 00:14:14 | 8423, b | S 1 |
| | <u>248.58</u> | Crack Multiple, from 04 to 09 o'clock, within 8 inch: YES | 00:14:49 | 8425, b | S 3 |
| | <u>252.76</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:15:11 | 8427 | |
| | <u>259.56</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:15:36 | 8428 | |
| | <u>264.33</u> | Downstream Manhole, Survey Ends 2073-0386 | 00:16:12 | 8429 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 423D | 4223 | 80 | 14 | 94 | 2.86 | 2.8 | 2.85 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100309 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 625 | PSR: 120403 |
| Total Pipe Length: 371 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.09.2010 | Pre-Cleaned: J Jetting | Map Grid #: 2074 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: MILLET AV | Flow Control: N Not Controlled | Start MH: 2074-0027 |
| City: SEM | Year Renewed: | End MH: 2073-0422 |
| Location Code: C Light Highway | Tape/Media #: | pipe length: 340.15 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 371 |
| Drain. Area: 0027 2074-0422 2073 | Lining Method: |
| | Category: |

Remark:: **MH #'S REVERSED ON MAP**

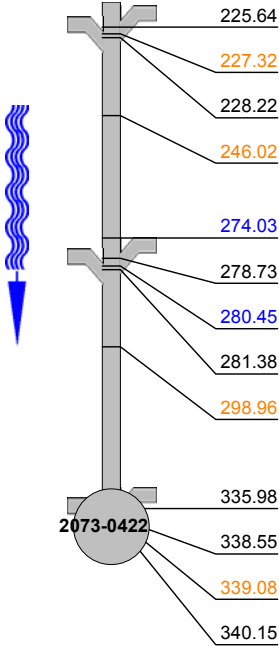
| 1:528 | position | observation | MPEG | photo | grade |
|-------|----------|---|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0422 | | 10528 | |
| | 0.00 | Water Level, 10 % of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 15 % of cross sectional area | | | M 2 |
| | 4.01 | Fracture Multiple, from 06 to 09 o'clock, within 8 inch: YES | 00:00:53 | 10529, b | S 4 |
| | 4.78 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:01:11 | 10531 | |
| | 4.78 | Crack Multiple, from 08 to 12 o'clock, within 8 inch: YES | 00:01:19 | 10532, b | S 3 |
| | 6.53 | Crack Multiple, from 11 to 02 o'clock, within 8 inch: YES | 00:01:38 | 10534, b | S 3 |
| | 7.81 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:02:02 | 10536 | |
| | 8.77 | Fracture Circumferential, from 07 to 09 o'clock, within 8 inch: YES | 00:02:14 | 10537, b | S 2 |
| | 12.92 | Crack Multiple, from 07 to 10 o'clock, within 8 inch: YES | 00:02:38 | 10539, b | S 3 |
| | 16.89 | Fracture Multiple, from 07 to 04 o'clock, within 8 inch: YES | 00:03:11 | 10541, b | S 4 |
| | 25.01 | Fracture Circumferential, from 04 to 08 o'clock, within 8 inch: YES | 00:03:55 | 10543, b | S 2 |
| | 58.11 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:05:09 | 10545 | |
| | 60.62 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:23 | 10546 | |
| | 78.22 | Crack Longitudinal, at 09 o'clock, within 8 inch: YES | 00:06:13 | 10547, b | S 2 |
| | 114.17 | Fracture Longitudinal, at 09 o'clock, within 8 inch: YES | 00:07:36 | 10549, b | S 3 |
| | 115.05 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:07:54 | 10551 | |
| | 116.85 | Crack Longitudinal, at 03 o'clock, within 8 inch: YES | 00:08:07 | 10552, b | S 2 |
| | 117.75 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:08:25 | 10554 | |
| | 131.38 | Crack Circumferential, from 07 to 11 o'clock, within 8 inch: YES | 00:09:11 | 10555, b | S 1 |
| | 163.34 | Crack Longitudinal, at 03 o'clock, within 8 inch: YES | 00:10:24 | 10557, b | S 2 |
| | 168.49 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:10:48 | 10559 | |
| | 170.96 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:11:00 | 10560 | |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100309 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 625 | PSR: 120403 |
| Total Pipe Length: 371 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.09.2010 | Pre-Cleaned: J Jetting | Map Grid #: 2074 |

| 1:528 | position | observation | MPEG | photo | grade |
|-------|---------------------|--|----------|----------|-------|
| | 225.64 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:12:55 | 10561 | |
| | 227.32 | Crack Multiple, from 12 to 05 o'clock, within 8 inch: YES | 00:13:13 | 10562, b | S 3 |
| | 228.22 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:13:27 | 10564 | |
| | 246.02 | Crack Multiple, from 03 to 06 o'clock, within 8 inch: YES | 00:14:21 | 10565, b | S 3 |
| | 274.03 | Crack Longitudinal, at 03 o'clock, within 8 inch: YES | 00:15:34 | 10567, b | S 2 |
| | 278.73 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:15:58 | 10569 | |
| | 280.45 | Crack Longitudinal, at 03 o'clock, within 8 inch: YES | 00:16:09 | 10570, b | S 2 |
| | 281.38 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:16:24 | 10572 | |
| | 298.96 S1 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start | 00:17:05 | 10573, b | S 3 |
| | 335.98 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:18:48 | 10575 | |
| | 2073-0422 338.55 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:19:06 | 10576 | |
| | 339.08 F1 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end | 00:19:14 | 10577 | S 3 |
| | 340.15 | Downstream Manhole, Survey Ends 2074-0027 | 00:19:33 | 10578 | |





Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100308 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 609 | PSR: 120507 |
| Total Pipe Length: 330 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.08.2010 | Pre-Cleaned: J Jetting | Map Grid #: 2073 |

| | | |
|---------------------------------------|---------------------------------------|------------------------------|
| Street: REMER ST | Flow Control: N Not Controlled | Start MH: 2073-0411 |
| City: SEM | Year Renewed: | End MH: 2073-0412 |
| Location Code: C Light Highway | Tape/Media #: | pipe length: 297.1 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 330 |
| Drain. Area: 0411 2073-0412 2073 | Lining Method: |
| | Category: |

Remark.: **NONE**

| 1:725 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0412 | | 10266 | |
| | 0.00 | Water Level, 5 of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 of cross sectional area | | | M 2 |
| | 5.44 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:00:41 | 10267 | |
| | 56.01 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:02:14 | 10268 | |
| | 75.91 | Fracture Multiple, from 03 to 05 o'clock, within 8 inch: YES | 00:02:57 | 10269, b | S 4 |
| | 76.87 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:03:09 | 10271 | |
| | 158.38 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:39 | 10272 | |
| | 208.06 | Fracture Multiple, from 03 to 05 o'clock, within 8 inch: YES | 00:07:17 | 10273, b | S 4 |
| | 209.00 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:07:29 | 10275 | |
| | 228.76 | Crack Multiple, from 11 to 04 o'clock, within 8 inch: YES | 00:08:16 | 10276, b | S 3 |
| | 229.42 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:08:36 | 10278 | |
| | 257.84 | Crack Multiple, from 05 to 01 o'clock, within 8 inch: YES | 00:10:44 | 10279, b | S 3 |
| | 276.24 | Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES | 00:11:34 | 10281, b | S 3 |
| | 293.99 | Crack Multiple, from 06 to 02 o'clock, within 8 inch: YES | 00:12:29 | 10283, b | S 3 |
| | 297.10 | Downstream Manhole, Survey Ends 2073-0411 | 00:13:09 | 10285 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4234 | 2200 | 20 | 4 | 24 | 3.33 | 2 | 3 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100308 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 613 | PSR: 120512 |
| Total Pipe Length: 316 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.08.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: HAVENPARK AV | Flow Control: N Not Controlled | Start MH: 2073-0415 |
| City: SEM | Year Renewed | End MH: 2073-0416 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 332.93 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 316 |
| Drain. Area: 0415 2073-0416 2073 | Lining Method: |
| | Category: |

Remark.: **NONE**

| 1:825 | position | observation | MPEG | photo | grade |
|-------|---------------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0415 | | 10328 | |
| | <u>0.00</u> | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | <u>0.00</u> | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 27.57 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:01:35 | 10329 | |
| | 29.69 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:01:46 | 10330 | |
| | <u>47.40</u> | Crack Longitudinal, at 10 o'clock, within 8 inch: YES | 00:02:32 | 10331, b | S 2 |
| | <u>79.27</u> | Crack Circumferential, from 09 to 11 o'clock, within 8 inch: YES | 00:03:54 | 10333, b | S 1 |
| | 84.31 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:04:16 | 10335 | |
| | <u>85.48</u> | Crack Circumferential, from 02 to 05 o'clock, within 8 inch: YES | 00:04:28 | 10336, b | S 1 |
| | 86.67 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:41 | 10338 | |
| | 137.18 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:06:39 | 10339 | |
| | <u>138.97</u> | Crack Multiple, from 02 to 04 o'clock, within 8 inch: YES | 00:06:50 | 10340, b | S 3 |
| | 139.90 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:07:03 | 10342 | |
| | <u>161.25</u> | Crack Multiple, from 09 to 05 o'clock, within 8 inch: YES | 00:07:57 | 10343, b | S 3 |
| | 194.50 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:09:31 | 10345 | |
| | 196.88 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:09:43 | 10346 | |
| | <u>246.63</u> | Fracture Multiple, from 08 to 11 o'clock, within 8 inch: YES | 00:12:14 | 10347, b | S 4 |
| | 247.69 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:12:26 | 10349 | |
| | 250.12 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:12:39 | 10350 | |
| | 304.71 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:14:57 | 10351 | |
| | <u>306.31</u> | Fracture Multiple, from 12 to 06 o'clock, within 8 inch: YES | 00:15:12 | 10352, b | S 4 |
| | 307.19 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:15:29 | 10354 | |
| | 332.93 | Downstream Manhole, Survey Ends 2073-0416 | 00:16:48 | 10355 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4232 | 2200 | 18 | 4 | 22 | 2.57 | 2 | 2.44 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100212 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 133 | PSR: 120826 |
| Total Pipe Length: 376 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 02.12.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: LEE AV | Flow Control: N Not Controlled | Start MH: 2073-0035 |
| City: SEM | Year Renewed | End MH: 2073-0036 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 269.54 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 376 |
| Drain. Area: 0035 2073-0036 2073 | Lining Method: |
| | Category: |

Remark:: **MH 3" SEVERSED ON MAP**

| 1:675 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|---------|-------|
| | 0.00 | Downstream Manhole, Survey Begins 2073-0035 | | 2196 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 50.92 | Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES | 00:02:34 | 2197 | |
| | 53.33 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:02:44 | 2198 | |
| | 110.17 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:04:29 | 2199 | |
| | 129.85 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:13 | 2200 | |
| | 147.93 | Fracture Multiple, from 07 to 11 o'clock, within 8 inch: YES | 00:05:56 | 2201, b | S 4 |
| | 149.33 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:06:17 | 2203 | |
| | 149.33 | Water Level, Sag in pipe, 25 ☐ of cross sectional area | 00:06:25 | | M 2 |
| | 150.34 | Fracture Multiple, from 07 to 01 o'clock, within 8 inch: YES | 00:06:31 | 2204, b | S 4 |
| | 181.87 | Water Level, 5 ☐ of cross sectional area | 00:08:29 | | M 2 |
| | 206.18 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:09:14 | 2206 | |
| | 222.14 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:09:49 | 2207 | |
| | 262.51 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:11:04 | 2208 | |
| | 264.82 | Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES | 00:11:14 | 2209 | |
| | 269.54 | Upstream Manhole, Survey Ends 2073-0036 | 00:11:45 | 2210 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4200 | 2400 | 8 | 8 | 16 | 4 | 2 | 2.67 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100212 | P.O.☐: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 139 | PSR: 120840 |
| Total Pipe Length: 268 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 02:12 2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---|---------------------------------------|-------------------------------|
| Street: ROSEMEAD BV | Flow Control: N Not Controlled | Start MH: 2073-0047 |
| City: SEM | Year Renewed | End MH: 2073-TRNK |
| Location Code: B Main Highway - Suburban Rural | Tap/Media ☐ | pipe length: 349.69 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 268 |
| Drain. Area: 0047 2073-TRNK 2073 | Lining Method: |
| | Category: |

Remark.: **NONE**

| 1:875 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|---------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0047 | | | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 21.19 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:01:19 | 2272 | |
| | 87.57 | Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES | 00:03:34 | 2273 | |
| | 126.94 | Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES | 00:04:48 | 2274 | |
| | 156.16 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:42 | 2275 | |
| | 308.51 | Fracture Multiple, from 01 to 05 o'clock, within 8 inch: YES | 00:12:39 | 2276, b | S 4 |
| | 309.11 | Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:13:06 | 2278, b | S 4 |
| | 310.82 | Water Level, Sag in pipe, 25 of cross sectional area | 00:11:52 | | M 2 |
| | 320.86 | Camera Underwater | 00:14:52 | | M 4 |
| | 344.66 | Water Level, 15 ☐ of cross sectional area | 00:15:47 | | M 2 |
| | 349.69 | Downstream Manhole, Survey Ends 2073-TRNK | 00:16:10 | 2280 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4200 | 4124 | 8 | 12 | 20 | 4 | 2.4 | 2.86 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100406 | P.O.☐: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1346 | PSR: 120549 |
| Total Pipe Length: 205 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04.06.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: THIENES AV | Flow Control: N Not Controlled | Start MH: 2073-0338 |
| City: SEM | Year Renewed | End MH: 2073-0341 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 203.21 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 205 |
| Drain. Area: 0338 2073-0341 2073 | Lining Method: |
| | Category: |

Remark.: **NONE**

| 1:500 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0338 | | 23788 | |
| | 0.00 | Water Level, 10 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 10 ☐ of cross sectional area | | | M 2 |
| | 10.53 | Fracture Multiple, from 06 to 10 o'clock, within 8 inch: YES | 00:01:10 | 23789, b | S 4 |
| | 10.81 | Fracture Multiple, from 05 to 08 o'clock, within 8 inch: YES | 00:01:35 | 23791, b | S 4 |
| | 91.59 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:03:59 | 23793 | |
| | 114.15 | Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES | 00:04:43 | 23794 | |
| | 187.68 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:06:47 | 23795 | |
| | 203.21 | Downstream Manhole, Survey Ends 2073-0341 | 00:07:33 | 23796 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4200 | 2200 | 8 | 4 | 12 | 4 | 2 | 3 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100301 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 489 | PSR: 120488 |
| Total Pipe Length: 349 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.01 2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: EL POCHE ST | Flow Control: N Not Controlled | Start MH: 2073-0390 |
| City: SEM | Year Renewed | End MH: 2073-0391 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 342.57 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 349 |
| Drain. Area: 0390 2073-0391 2073 | Lining Method: |
| | Category: |

Remark:: **MH ☐S REVERSED ON MAP**

| 1:850 | position | observation | MPEG | photo | grade |
|-------|---------------|--|----------|---------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0390 | | 8471 | |
| | <u>0.00</u> | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | <u>0.00</u> | Water Mark, 10 ☐ of cross sectional area | | | M 2 |
| | <u>14.83</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:01:15 | 8472 | |
| | <u>20.41</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:01:31 | 8473 | |
| | <u>34.82</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:02:04 | 8474 | |
| | <u>40.69</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:02:21 | 8475 | |
| | <u>94.27</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:03:59 | 8476 | |
| | <u>117.79</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:43 | 8477 | |
| | <u>165.26</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:06:06 | 8478 | |
| | <u>173.72</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:06:26 | 8479 | |
| | <u>188.16</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:06:57 | 8480 | |
| | <u>193.90</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:07:14 | 8481 | |
| | <u>247.46</u> | Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES | 00:08:49 | 8482 | |
| | <u>268.22</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:09:34 | 8483 | |
| | <u>273.61</u> | Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES | 00:09:57 | 8484, b | S 4 |
| | <u>275.15</u> | Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES | 00:10:26 | 8486, b | S 4 |
| | <u>312.69</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:12:00 | 8488 | |
| | <u>327.35</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:12:32 | 8489 | |
| | <u>332.88</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:12:49 | 8490 | |
| | <u>335.48</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:13:01 | 8491 | |
| | <u>337.78</u> | Tap Break-In Active, at 10 o'clock, 4", within 8 inch: YES | 00:13:12 | 8492 | |
| | <u>342.57</u> | Upstream Manhole, Survey Ends 2073-0391 | 00:13:43 | 8493 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4200 | 2200 | 8 | 4 | 12 | 4 | 2 | 3 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100423 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: B FUGATE | section number: 1800 | PSR: 120326 |
| Total Pipe Length: 190 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04 23 2010 | Pre-Cleaned: J Jetting | Map Grid #: 2074 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: LINARD ST | Flow Control: N Not Controlled | Start MH: 2074-0112 |
| City: SEM | Year Renewed: | End MH: 2074-0114 |
| Location Code: C Light Highway | Tape/Media #: | pipe length: 224.77 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 190 |
| Drain. Area: 0112 2074-0114 2074 | Lining Method: |
| | Category: |

Remark: **MH S REVERSED ON DATABASE**

| 1:550 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Downstream Manhole, Survey Begins 2074-0112 | | 30796 | |
| | 0.00 | Water Level, 5' of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5' of cross sectional area | | | M 2 |
| | 90.57 | Fracture Multiple, from 09 to 02 o'clock, within 8 inch: YES | 00:04:17 | 30797, b | S 4 |
| | 92.03 | Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES | 00:05:22 | 30799 | |
| | 92.03 | Fracture Multiple, from 08 to 04 o'clock, within 8 inch: YES | 00:05:32 | 30800, b | S 4 |
| | 145.57 | Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES | 00:07:20 | 30802 | |
| | 208.74 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:09:24 | 30803 | |
| | 224.77 | Upstream Manhole, Survey Ends 2074-0114 | 00:10:19 | 30804 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4200 | 2200 | 8 | 4 | 12 | 4 | 2 | 3 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100422 | P.O.☐: Y0TV0910B | Weather: 1 Dry | Surveyed By: B FUGATE | section number: 1818 | PSR: 116020 |
| Total Pipe Length: 152 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04 22 2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2124 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: ADSON PL | Flow Control: N Not Controlled | Start MH: 2124-0249 |
| City: SEM | Year Renewed | End MH: 2124-0250 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 177.55 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 152 |
| Drain. Area: 0249 2124-0250 2124 | Lining Method: |
| | Category: |

Remark:: **MH S REVERSED ON DATABASE**

| 1:450 | position | observation | MPEG | photo | grade |
|-------|---------------|--|----------|----------|-------|
| | 0.00 | Downstream Manhole, Survey Begins 2124-0249 | | 30990 | |
| | <u>0.00</u> | Water Level, 5 of cross sectional area | | | M 2 |
| | <u>0.00</u> | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | <u>20.41</u> | Roots Fine Joint, at 12 o'clock, within 8 inch: YES | 00:01:40 | 30991, b | |
| | <u>44.22</u> | Roots Fine Joint, at 12 o'clock, within 8 inch: YES | 00:02:26 | 30993, b | |
| | <u>51.50</u> | Fracture Multiple, from 08 to 03 o'clock, within 8 inch: YES | 00:02:52 | 30995, b | S 4 |
| | <u>54.32</u> | Fracture Multiple, from 12 to 02 o'clock, within 8 inch: YES | 00:03:15 | 30997, b | S 4 |
| | <u>71.23</u> | Roots Fine Joint, at 01 o'clock, within 8 inch: YES | 00:03:55 | 30999, b | |
| | <u>74.54</u> | Roots Fine Joint, at 04 o'clock, within 8 inch: YES | 00:04:08 | 31001, b | |
| | <u>76.87</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:19 | 31003 | |
| | <u>79.49</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:04:30 | 31004 | |
| | <u>86.10</u> | Roots Fine Joint, at 11 o'clock, within 8 inch: YES | 00:04:47 | 31005, b | |
| | <u>89.02</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:02 | 31007 | |
| | <u>91.44</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:05:13 | 31008 | |
| | <u>138.29</u> | Roots Fine Joint, at 01 o'clock, within 8 inch: YES | 00:06:36 | 31009, b | |
| | <u>164.43</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:07:26 | 31011 | |
| | <u>170.26</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:07:43 | 31012 | |
| | <u>172.78</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:07:54 | 31013 | |
| | <u>177.55</u> | Upstream Manhole, Survey Ends 2124-0250 | 00:08:20 | 31014 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4200 | 2200 | 8 | 4 | 12 | 4 | 2 | 3 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|---------------------------|
| Date: 20100309 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 618 | PSR: 120506 |
| Total Pipe Length: 308 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.09.2010 | Pre-Cleaned: J Jetting | Map Grid ☐ 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: REMER ST | Flow Control: N Not Controlled | Start MH: 2073-0410 |
| City: SEM | Year Renewed | End MH: 2073-0411 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 319.77 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 308 |
| Drain. Area: 0410 2073-0411 2073 | Lining Method: |
| | Category: |

Remark:: **NONE**

| 1:800 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0410 | | 10406 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 17.00 | Water Level, Sag in pipe, 10 ☐ of cross sectional area | 00:01:47 | | M 2 |
| | 24.51 | Crack Multiple, from 12 to 03 o'clock, within 8 inch: YES | 00:02:14 | 10407, b | S 3 |
| | 33.34 | Water Level, Sag in pipe, 25 ☐ of cross sectional area | 00:02:46 | | M 2 |
| | 39.83 | Crack Multiple, from 08 to 02 o'clock, within 8 inch: YES | 00:03:06 | 10409, b | S 3 |
| | 39.83 | Fracture Multiple, from 11 to 03 o'clock, within 8 inch: YES | 00:03:14 | 10411, b | S 4 |
| | 70.13 | Crack Circumferential, from 11 to 03 o'clock, within 8 inch: YES | 00:04:32 | 10413, b | S 1 |
| | 82.98 | Water Level, 5 ☐ of cross sectional area | 00:05:06 | 10415 | M 2 |
| | 98.13 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:05:39 | 10416 | |
| | 115.79 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:06:19 | 10417 | |
| | 131.52 | Tap Break-In Active, at 02 o'clock, 4", within 8 inch: YES | 00:06:55 | 10418 | |
| | 166.41 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:08:08 | 10419 | |
| | 173.69 | Crack Multiple, from 10 to 05 o'clock, within 8 inch: YES | 00:08:30 | 10420, b | S 3 |
| | 176.68 | Water Level, Sag in pipe, 10 ☐ of cross sectional area | 00:08:51 | | M 2 |
| | 194.63 | Crack Multiple, from 08 to 01 o'clock, within 8 inch: YES | 00:09:35 | 10422, b | S 3 |
| | 209.11 | Water Level, 5 ☐ of cross sectional area | 00:10:16 | | M 2 |
| | 246.81 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:11:28 | 10424 | |
| | 267.36 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:12:13 | 10425 | |
| | 280.95 | Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES | 00:12:46 | 10426, b | S 3 |
| | 314.05 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:13:58 | 10428, b | S 3 |
| | 315.16 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:14:18 | 10430 | |
| | 316.83 | Crack Longitudinal, at 03 o'clock, within 8 inch: YES | 00:14:34 | 10431, b | S 2 |
| | 319.77 | Downstream Manhole, Survey Ends 2073-0411 | 00:15:00 | 10433 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4136 | 2700 | 25 | 14 | 39 | 2.78 | 2 | 2.44 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100308 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 612 | PSR: 120511 |
| Total Pipe Length: 260 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.08.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---------------------------------------|---------------------------------------|----------------------------|
| Street: HAVENPARK AV | Flow Control: N Not Controlled | Start MH: 2073-0414 |
| City: SEM | Year Renewed | End MH: 2073-0415 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 338 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 260 |
| Drain. Area: 0414:2073-0415:2073 | Lining Method: |
| | Category: |

Remark:: **NONE**

| 1:825 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0414 | | 10298 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 6.52 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:00:46 | 10299 | |
| | 9.02 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:00:58 | 10300 | |
| | 40.95 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:02:07 | 10301 | |
| | 43.15 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:02:19 | 10302 | |
| | 92.57 | Fracture Multiple, from 06 to 12 o'clock, within 8 inch: YES | 00:04:08 | 10303, b | S 4 |
| | 94.00 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:04:27 | 10305 | |
| | 95.17 | Fracture Longitudinal, at 04 o'clock, within 8 inch: YES | 00:04:39 | 10306, b | S 3 |
| | 96.50 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:58 | 10308 | |
| | 149.85 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:06:51 | 10309, b | S 3 |
| | 150.86 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:07:24 | 10311 | |
| | 153.27 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:07:38 | 10312 | |
| | 202.84 | Crack Circumferential, from 07 to 10 o'clock, within 8 inch: YES | 00:09:28 | 10313, b | S 1 |
| | 203.86 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:09:42 | 10315 | |
| | 206.34 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:09:57 | 10316 | |
| | 260.81 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:11:56 | 10317 | |
| | 262.89 | Crack Multiple, from 03 to 06 o'clock, within 8 inch: YES | 00:12:10 | 10318, b | S 3 |
| | 263.35 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:12:20 | 10320 | |
| | 313.61 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:14:14 | 10321 | |
| | 316.29 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:14:26 | 10322 | |
| | 329.89 | Crack Multiple, from 10 to 04 o'clock, within 8 inch: YES | 00:15:03 | 10323, b | S 3 |
| | 334.03 | Crack Multiple, from 01 to 04 o'clock, within 8 inch: YES | 00:15:25 | 10325, b | S 3 |
| | 338.00 | Downstream Manhole, Survey Ends 2073-0415 | 00:15:54 | 10327 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4135 | 2200 | 20 | 4 | 24 | 2.86 | 2 | 2.67 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100309 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 621 | PSR: 120404 |
| Total Pipe Length: 358 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.09.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: MILLET AV | Flow Control: N Not Controlled | Start MH: 2073-0422 |
| City: SEM | Year Renewed | End MH: 2073-0423 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 341.75 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 358 |
| Drain. Area: 0422 2073-0423 2073 | Lining Method: |
| | Category: |

Remark:: **MH ☐'S REVERSED ON MAP**

| 1:759 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0423 | | 10457 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 18.66 | Fracture Longitudinal, at 10 o'clock, within 8 inch: YES | 00:01:19 | 10458, b | S 3 |
| | 19.67 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:01:30 | 10460 | |
| | 22.06 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:01:44 | 10461 | |
| | 66.77 | Water Level, 10 ☐ of cross sectional area | 00:03:06 | | M 2 |
| | 72.73 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:03:23 | 10462 | |
| | 74.57 | Fracture Multiple, from 01 to 05 o'clock, within 8 inch: YES | 00:03:44 | 10463, b | S 4 |
| | 75.29 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:01 | 10465 | |
| | 109.04 | Crack Multiple, from 03 to 06 o'clock, within 8 inch: YES | 00:05:15 | 10466, b | S 3 |
| | 130.12 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:06:08 | 10468 | |
| | 131.57 | Crack Longitudinal, at 12 o'clock, within 8 inch: YES | 00:06:21 | 10469, b | S 2 |
| | 132.44 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:06:34 | 10471 | |
| | 182.96 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:08:07 | 10472 | |
| | 184.60 | Crack Multiple, from 01 to 05 o'clock, within 8 inch: YES | 00:08:22 | 10473, b | S 3 |
| | 185.37 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:08:34 | 10475 | |
| | 240.10 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:10:12 | 10476 | |
| | 242.76 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:10:29 | 10477 | |
| | 245.25 | Water Level, 10 ☐ of cross sectional area | 00:10:42 | | M 2 |
| | 264.72 | Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES | 00:11:25 | 10478, b | S 3 |
| | 293.49 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:12:34 | 10480 | |
| | 295.94 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:12:48 | 10481 | |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100309 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 621 | PSR: 120404 |
| Total Pipe Length: 358 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.09.2010 | Pre-Cleaned: J Jetting | Map Grid #: 2073 |

| 1:759 | position | observation | MPEG | photo | grade | | |
|-------|----------|--|---|--|---|------|------|
| | | <p style="color: orange;">Crack Multiple, from 02 to 05 o'clock, within 8 inch: YES</p> <p style="color: blue;">Crack Longitudinal, at 04 o'clock, within 8 inch: YES</p> <p>Downstream Manhole, Survey Ends 2073-0422</p> | <p style="color: orange;">00:13:41</p> <p style="color: blue;">00:14:45</p> <p>00:15:19</p> | <p style="color: orange;">10482, b</p> <p style="color: blue;">10484, b</p> <p>10486</p> | <p style="color: orange;">S 3</p> <p style="color: blue;">S 2</p> | | |
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4135 | 2400 | 23 | 8 | 31 | 2.88 | 2 | 2.58 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100330 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1157 | PSR: 120472 |
| Total Pipe Length: 182 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03 30 2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: THIENES ST | Flow Control: N Not Controlled | Start MH: 2073-0373 |
| City: SEM | Year Renewed | End MH: 2073-0374 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 179.31 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 182 |
| Drain. Area: 0373 2073-0374 2073 | Lining Method: |
| | Category: |

Remark.: **NONE**

| 1:450 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0373 | | 20511 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 9.65 | Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES | 00:01:17 | 20512, b | S 4 |
| | 16.86 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:02:07 | 20514 | |
| | 55.17 | Crack Multiple, from 12 to 03 o'clock, within 8 inch: YES | 00:03:19 | 20515, b | S 3 |
| | 68.82 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:03:57 | 20517 | |
| | 120.23 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:05:26 | 20518 | |
| | 125.89 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:41 | 20519 | |
| | 136.37 | Water Level, Sag in pipe, 10 ☐ of cross sectional area | 00:06:06 | | M 2 |
| | 142.85 | Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES | 00:06:33 | 20520, b | S 3 |
| | 171.51 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:07:44 | 20522 | |
| | 173.16 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:08:03 | 20523, b | S 3 |
| | 173.17 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:08:32 | 20525 | |
| | 178.07 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:08:56 | 20526, b | S 3 |
| | 179.31 | Downstream Manhole, Survey Ends 2073-0374 | 00:09:29 | 20528 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4134 | 2300 | 16 | 6 | 22 | 3.2 | 2 | 2.75 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100330 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1159 | PSR: 767267 |
| Total Pipe Length: 195 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03 30 2010 | Pre-Cleaned: J Jetting | Map Grid #: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: THIENES ST | Flow Control: N Not Controlled | Start MH: 2073-0374 |
| City: SEM | Year Renewed: | End MH: 2073-TRNK |
| Location Code: C Light Highway | Tape/Media #: | pipe length: 177.78 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 195 |
| Drain. Area: 0374:2073-TRNK:2073 | Lining Method: |
| | Category: |

Remark.: **NONE**

| 1:450 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0374 | | 20543 | |
| | 0.00 | Water Level, 5' of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5' of cross sectional area | | | M 2 |
| | 22.95 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:01:25 | 20544, b | S 3 |
| | 35.27 | Crack Longitudinal, at 04 o'clock, within 8 inch: YES | 00:02:08 | 20546, b | S 2 |
| | 47.42 | Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES | 00:02:49 | 20548, b | S 3 |
| | 48.51 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:03:01 | 20550 | |
| | 50.23 | Fracture Multiple, from 04 to 06 o'clock, within 8 inch: YES | 00:03:14 | 20551, b | S 4 |
| | 51.15 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:03:30 | 20553 | |
| | 109.11 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:05:10 | 20554 | |
| | 111.45 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:21 | 20555 | |
| | 171.48 | Crack Multiple, from 10 to 05 o'clock, within 8 inch: YES | 00:07:11 | 20556, b | S 3 |
| | 177.78 | Downstream Manhole, Survey Ends 2073-TRNK | 00:08:11 | 20558 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4133 | 2200 | 15 | 4 | 19 | 3 | 2 | 2.71 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|---------------------------|
| Date: 20100309 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 626 | PSR: 120345 |
| Total Pipe Length: 117 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.09.2010 | Pre-Cleaned: J Jetting | Map Grid ☐ 2074 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: MILLET AV | Flow Control: N Not Controlled | Start MH: 2074-0027 |
| City: SEM | Year Renewed | End MH: 2074-0028 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 125.39 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 117 |
| Drain. Area: 0027 2074-0028 2074 | Lining Method: |
| | Category: |

Remark.: **NONE**

| 1:325 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2074-0027 | | 10579 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 10 ☐ of cross sectional area | | | M 2 |
| | 9.84 | Crack Longitudinal, at 12 o'clock, within 8 inch: YES | 00:01:02 | 10580, b | S 2 |
| | 37.74 | Fracture Multiple, from 02 to 05 o'clock, within 8 inch: YES | 00:02:23 | 10582, b | S 4 |
| | 38.59 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:02:41 | 10584 | |
| | 76.95 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:04:26 | 10585 | |
| | 90.89 | Crack Multiple, from 01 to 06 o'clock, within 8 inch: YES | 00:05:09 | 10586, b | S 3 |
| | 91.59 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:24 | 10588 | |
| | 101.37 | Crack Multiple, from 06 to 11 o'clock, within 8 inch: YES | 00:05:57 | 10589, b | S 3 |
| | 118.90 | Water Level, 15 ☐ of cross sectional area | 00:06:50 | | M 2 |
| | 121.18 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:07:07 | 10591, b | S 3 |
| | 125.39 | Downstream Manhole, Survey Ends 2074-0028 | 00:07:47 | 10593 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4133 | 2300 | 15 | 6 | 21 | 3 | 2 | 2.63 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100302 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 474 | PSR: 120462 |
| Total Pipe Length: 193 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.02.2010 | Pre-Cleaned: J Jetting | Map Grid #: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: CENTRAL AV | Flow Control: N Not Controlled | Start MH: 2073-0366 |
| City: SEM | Year Renewed: | End MH: 2073-0367 |
| Location Code: C Light Highway | Tape/Media #: | pipe length: 142.34 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 193 |
| Drain. Area: 0366 2073-0367 2073 | Lining Method: |
| | Category: |

Remark:: **MH #'S REVERSED ON MAP**

| 1:350 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|---------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0367 | | 8207 | |
| | 0.00 | Water Level, 10' of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 10' of cross sectional area | | | M 2 |
| | 4.36 | Fracture Multiple, from 01 to 05 o'clock, within 8 inch: YES | 00:00:56 | 8208, b | S 4 |
| | 6.39 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:01:18 | 8210 | |
| | 20.03 | Crack Circumferential, from 09 to 04 o'clock, within 8 inch: YES | 00:01:58 | 8211, b | S 1 |
| | 47.97 | Crack Circumferential, from 08 to 04 o'clock, within 8 inch: YES | 00:03:11 | 8213, b | S 1 |
| | 57.00 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:03:47 | 8215 | |
| | 59.45 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:03:58 | 8216 | |
| | 65.33 | Crack Multiple, from 11 to 04 o'clock, within 8 inch: YES | 00:04:17 | 8217, b | S 3 |
| | 109.13 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:05:52 | 8219, b | S 3 |
| | 113.96 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:06:24 | 8221 | |
| | 116.57 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:06:37 | 8222 | |
| | 142.34 | Downstream Manhole, Survey Ends 2073-0366 | 00:07:46 | 8223 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4132 | 2200 | 12 | 4 | 16 | 2.4 | 2 | 2.29 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100308 | P.O.☐: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 615 | PSR: 120514 |
| Total Pipe Length: 208 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.08.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: HAVENPARK AV | Flow Control: N Not Controlled | Start MH: 2073-0417 |
| City: SEM | Year Renewed | End MH: 2073-0418 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 141.13 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 208 |
| Drain. Area: 0417 2073-0418 2073 | Lining Method: |
| | Category: |

Remark.: **NONE**

| 1:350 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0417 | | 10366 | |
| | 0.00 | Water Level, 10 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 10 ☐ of cross sectional area | | | M 2 |
| | 6.22 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:00:46 | 10367 | |
| | 72.90 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:02:49 | 10368 | |
| | 82.53 | Fracture Multiple, from 03 to 06 o'clock, within 8 inch: YES | 00:03:13 | 10369, b | S 4 |
| | 86.33 | Fracture Longitudinal, at 09 o'clock, within 8 inch: YES | 00:03:32 | 10371, b | S 3 |
| | 87.55 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:03:43 | 10373 | |
| | 92.84 | Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES | 00:04:04 | 10374, b | S 3 |
| | 141.13 | Downstream Manhole, Survey Ends 2073-0418 | 00:05:49 | 10376 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4132 | 2200 | 10 | 4 | 14 | 3.33 | 2 | 2.8 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100308 | P.O.☐: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 616 | PSR: 120401 |
| Total Pipe Length: 337 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.08.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: CENTRAL AV | Flow Control: N Not Controlled | Start MH: 2073-0419 |
| City: SEM | Year Renewed | End MH: 2073-0420 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 321.43 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 337 |
| Drain. Area: 0419 2073-0420 2073 | Lining Method: |
| | Category: |

Remark.: **NONE**

| 1:800 | position | observation | MPEG | photo | grade |
|-------|----------|---|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0419 | | 10377 | |
| | 0.00 | Water Level, 15 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 20 ☐ of cross sectional area | | | M 2 |
| | 4.28 | Fracture Multiple, from 06 to 06 o'clock, within 8 inch: YES | 00:00:47 | 10378, b | S 4 |
| | 5.11 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:01:05 | 10380 | |
| | 11.70 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:01:25 | 10381 | |
| | 45.72 | Crack Multiple, from 01 to 06 o'clock, within 8 inch: YES | 00:02:42 | 10382, b | S 3 |
| | 62.54 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:03:28 | 10384 | |
| | 73.07 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:00 | 10385 | |
| | 115.62 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:05:28 | 10386 | |
| | 122.09 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:47 | 10387 | |
| | 173.01 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:07:33 | 10388 | |
| | 175.49 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:07:50 | 10389 | |
| | 230.53 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:09:43 | 10390 | |
| | 232.86 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:09:58 | 10391 | |
| | 234.39 | Fracture Circumferential, from 04 to 05 o'clock, within 8 inch: YES | 00:10:11 | 10392, b | S 2 |
| | 283.83 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:12:01 | 10394 | |
| | 289.10 | Crack Circumferential, from 06 to 08 o'clock, within 8 inch: YES | 00:12:19 | 10395, b | S 1 |
| | 293.31 | Crack Circumferential, from 12 to 12 o'clock, within 8 inch: YES | 00:12:37 | 10397, b | S 1 |
| | 313.33 | Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES | 00:13:55 | 10399, b | S 3 |
| | 321.43 | Downstream Manhole, Survey Ends 2073-0420 | 00:14:44 | 10401 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4132 | 2200 | 14 | 4 | 18 | 2.33 | 2 | 2.25 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100310 | P.O.☐: Y0TV0910B | Weather: 1 Dry | Surveyed By: B.FUGATE | section number: 657 | PSR: 120453 |
| Total Pipe Length: 229 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.10.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2074 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: MERCED AV | Flow Control: N Not Controlled | Start MH: 2074-0020 |
| City: SEM | Year Renewed | End MH: 2074-0021 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 335.56 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 229 |
| Drain. Area: 0020 2074-0021 2074 | Lining Method: |
| | Category: |

Remark.: **Cracks**

| 1:825 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2074-0020 | | 11503 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 82.70 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:04:10 | 11504 | |
| | 88.34 | Fracture Multiple, from 04 to 09 o'clock, within 8 inch: YES | 00:04:34 | 11505, b | S 4 |
| | 136.05 | Crack Longitudinal, at 09 o'clock, within 8 inch: YES | 00:06:19 | 11507, b | S 2 |
| | 136.63 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:06:32 | 11509 | |
| | 191.05 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:08:27 | 11510 | |
| | 203.88 | Crack Multiple, from 11 to 05 o'clock, within 8 inch: YES | 00:09:00 | 11511, b | S 3 |
| | 241.10 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:10:20 | 11513 | |
| | 307.18 | Crack Multiple, from 07 to 12 o'clock, within 8 inch: YES | 00:12:43 | 11514, b | S 3 |
| | 335.56 | Downstream Manhole, Survey Ends 2074-0021 | 00:14:04 | 11516 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4132 | 2200 | 12 | 4 | 16 | 3 | 2 | 2.67 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100309 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 630 | PSR: 120349 |
| Total Pipe Length: 127 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.09.2010 | Pre-Cleaned: J Jetting | Map Grid #: 2074 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: LERMA RD | Flow Control: N Not Controlled | Start MH: 2074-0030 |
| City: SEM | Year Renewed: | End MH: 2074-0031 |
| Location Code: C Light Highway | Tape/Media #: | pipe length: 113.61 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 127 |
| Drain. Area: 0030 2074-0031 2074 | Lining Method: |
| | Category: |

Remark:: **MH #'S REVERSED ON MAP**

| 1:300 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2074-0031 | | 10626 | |
| | 0.00 | Water Level, 15' of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 20' of cross sectional area | | | M 2 |
| | 27.85 | Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES | 00:01:51 | 10627, b | S 3 |
| | 40.73 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:02:27 | 10629 | |
| | 43.28 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:02:40 | 10630 | |
| | 48.92 | Fracture Multiple, from 03 to 05 o'clock, within 8 inch: YES | 00:02:59 | 10631, b | S 4 |
| | 89.23 | Crack Multiple, from 12 to 03 o'clock, within 8 inch: YES | 00:04:26 | 10633, b | S 3 |
| | 97.93 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:04:54 | 10635 | |
| | 100.45 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:07 | 10636 | |
| | 113.61 | Downstream Manhole, Survey Ends 2074-0030 | 00:05:51 | 10637 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4132 | 2200 | 10 | 4 | 14 | 3.33 | 2 | 2.8 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100428 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: B FUGATE | section number: 1851 | PSR: 120320 |
| Total Pipe Length: 240 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04 28 2010 | Pre-Cleaned: J Jetting | Map Grid #: 2074 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: PARLIN ST | Flow Control: N Not Controlled | Start MH: 2074-0109 |
| City: SEM | Year Renewed: | End MH: 2074-0110 |
| Location Code: C Light Highway | Tape/Media #: | pipe length: 294.74 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 240 |
| Drain. Area: 0109 2074-0110 2074 | Lining Method: |
| | Category: |

Remark: **MH'S REVERSED ON DATABASE**

| 1:725 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|-------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2074-0110 | | 9 | |
| | 0.00 | Water Level, 5' of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5' of cross sectional area | | | M 2 |
| | 38.77 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:01:33 | 23 | |
| | 51.89 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:02:04 | 24 | |
| | 90.86 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:03:26 | 25 | |
| | 100.09 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:03:53 | 26 | |
| | 142.46 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:39 | 27 | |
| | 148.29 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:05:58 | 28 | |
| | 193.97 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:07:27 | 29 | |
| | 199.80 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:07:47 | 30 | |
| | 201.35 | Fracture Multiple, from 11 to 12 o'clock, within 8 inch: YES | 00:08:07 | 31, b | S 4 |
| | 292.99 | Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:11:27 | 33, b | S 3 |
| | 294.74 | Downstream Manhole, Survey Ends 2074-0109 | 00:12:04 | 35 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4131 | 2200 | 7 | 4 | 11 | 3.5 | 2 | 2.75 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100415 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1591 | PSR: 120334 |
| Total Pipe Length: 209 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04.15 2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2074 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: BYWAYS ST | Flow Control: N Not Controlled | Start MH: 2074-0120 |
| City: SEM | Year Renewed | End MH: 2074-0123 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 221.29 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 209 |
| Drain. Area: 0120 2074-0123 2074 | Lining Method: |
| | Category: |

Remark:: **A THE FLOW**

| 1:550 | position | observation | MPEG | photo | grade |
|-------|---------------|--|----------|----------|-------|
| | 0.00 | Downstream Manhole, Survey Begins 2074-0123 | | 28064 | |
| | <u>0.00</u> | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | <u>0.00</u> | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 6.04 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:00:54 | 28065 | |
| | 22.31 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:01:25 | 28066 | |
| | 51.69 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:02:14 | 28067 | |
| | 60.72 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:02:32 | 28068 | |
| | 96.98 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:03:43 | 28069 | |
| | 102.69 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:01 | 28070 | |
| | 162.62 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:37 | 28071 | |
| | 182.01 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:06:12 | 28072 | |
| | <u>192.37</u> | Fracture Multiple, from 04 to 07 o'clock, within 8 inch: YES | 00:06:53 | 28073, b | S 4 |
| | 201.16 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:07:24 | 28075 | |
| | <u>212.36</u> | Crack Multiple, from 07 to 10 o'clock, within 8 inch: YES | 00:07:51 | 28076, b | S 3 |
| | 221.29 | Upstream Manhole, Survey Ends 2074-0120 | 00:08:25 | 28078 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4131 | 2200 | 7 | 4 | 11 | 3.5 | 2 | 2.75 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100415 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1593 | PSR: 120336 |
| Total Pipe Length: 142 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04.15.2010 | Pre-Cleaned: J Jetting | Map Grid #: 2074 |

| | | |
|---------------------------------------|---------------------------------------|------------------------------|
| Street: HOLTWOOD AV | Flow Control: N Not Controlled | Start MH: 2074-0122 |
| City: SEM | Year Renewed: | End MH: 2074-0123 |
| Location Code: C Light Highway | Tape/Media #: | pipe length: 135.5 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 142 |
| Drain. Area: 0122 2074-0123 2074 | Lining Method: |
| | Category: |

Remark.: **A THE FLOW**

| 1:350 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Downstream Manhole, Survey Begins 2074-0123 | | 28092 | |
| | 0.00 | Water Level, 5' of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5' of cross sectional area | | | M 2 |
| | 50.79 | Crack Longitudinal, at 09 o'clock, within 8 inch: YES | 00:02:00 | 28093, b | S 2 |
| | 104.53 | Fracture Longitudinal, at 03 o'clock, within 8 inch: YES | 00:03:58 | 28095, b | S 3 |
| | 105.50 | Fracture Multiple, from 10 to 02 o'clock, within 8 inch: YES | 00:04:35 | 28097, b | S 4 |
| | 106.91 | Water Level, Sag in pipe, 50' of cross sectional area | 00:04:55 | | M 3 |
| | 113.58 | Water Level, 10' of cross sectional area | 00:05:26 | | M 2 |
| | 135.50 | Upstream Manhole, Survey Ends 2074-0122 | 00:06:21 | 28099 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4131 | 3123 | 9 | 9 | 18 | 3 | 2.25 | 2.57 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100413 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1511 | PSR: 120239 |
| Total Pipe Length: 244 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04.13 2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2074 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: LEAFDALE AV | Flow Control: N Not Controlled | Start MH: 2074-0140 |
| City: SEM | Year Renewed | End MH: 2074-0141 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 260.22 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 244 |
| Drain. Area: 0140 2074-0141 2074 | Lining Method: |
| | Category: |

Remark.: **NONE**

| 1:650 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2074-0140 | | 26380 | |
| | 0.00 | Water Level, 10 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 10 ☐ of cross sectional area | | | M 2 |
| | 43.97 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:02:13 | 26381 | |
| | 98.43 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:04:05 | 26382 | |
| | 110.12 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:35 | 26383 | |
| | 152.21 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:56 | 26384 | |
| | 171.12 | Water Level, Sag in pipe, 25 of cross sectional area | 00:06:38 | | M 2 |
| | 179.27 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:06:59 | 26385 | |
| | 198.62 | Crack Multiple, from 04 to 08 o'clock, within 8 inch: YES | 00:07:53 | 26386 | S 3 |
| | 215.44 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:08:50 | 26387 | |
| | 220.50 | Water Level, 10 ☐ of cross sectional area | 00:09:06 | | M 2 |
| | 257.70 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:10:23 | 26388 | |
| | 257.70 | Fracture Multiple, from 10 to 03 o'clock, within 8 inch: YES | 00:10:38 | 26389, b | S 4 |
| | 260.22 | Downstream Manhole, Survey Ends 2074-0141 | 00:11:15 | 26391 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4131 | 2400 | 7 | 8 | 15 | 3.5 | 2 | 2.5 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100430 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: B FUGATE | section number: 1935 | PSR: 120762 |
| Total Pipe Length: 200 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04.30.2010 | Pre-Cleaned: J Jetting | Map Grid #: 2073 |

| | | |
|--|---------------------------------------|-------------------------------|
| Street: 0 | Flow Control: N Not Controlled | Start MH: 2073-0086 |
| City: SEM | Year Renewed: | End MH: 2073-0107 |
| Location Code: D Easement: Right of Way | Tape/Media #: | pipe length: 197.66 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 200 |
| Drain. Area: 0086:2073-0107:2073 | Lining Method: |
| | Category: |

Remark: **MH'S REVERSED ON DATABASE**

| 1:500 | position | observation | MPEG | photo | grade |
|-------|----------|---|----------|-------|-------|
| | 0.00 | Downstream Manhole, Survey Begins 2073-0086 | | 15 | |
| | 0.00 | Water Level, 5' of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5' of cross sectional area | | | M 2 |
| | 5.54 | Fracture Multiple, from 01 to 10 o'clock, within 8 inch: YES | 00:01:08 | 16, b | S 4 |
| | 18.17 | Fracture Circumferential, from 12 to 12 o'clock, within 8 inch: YES | 00:01:59 | 18, b | S 2 |
| | 197.66 | Upstream Manhole, Survey Ends 2073-0107 | 00:08:10 | 20 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4121 | 2200 | 6 | 4 | 10 | 3 | 2 | 2.5 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100429 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1918 | PSR: 120924 |
| Total Pipe Length: 215 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04 29 2010 | Pre-Cleaned: J Jetting | Map Grid #: 2073 |

| | | |
|-----------------------------------|---------------------------------------|-------------------------------|
| Street: LEE AV | Flow Control: N Not Controlled | Start MH: 2073-0016 |
| City: SEM | Year Renewed: | End MH: 2073-TRNK |
| Location Code: PSR #120924 | Tape/Media #: | pipe length: 138.85 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 215 |
| Drain. Area: 0016 2073-TRNK 2073 | Lining Method: |
| | Category: |

Remark.: **SAG WATER 50 #**

| 1:350 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|-------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0016 | | 61 | |
| | 0.00 | Water Level, 5 # of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 # of cross sectional area | | | M 2 |
| | 3.18 | Tap Break-In Active, at 10 o'clock, 4", within 8 inch: YES | 00:00:48 | 62 | |
| | 74.77 | Water Level, 15 # of cross sectional area | 00:03:56 | | M 2 |
| | 84.84 | Fracture Multiple, from 10 to 02 o'clock, within 8 inch: YES | 00:04:34 | 63, b | S 4 |
| | 84.84 | Water Level, Sag in pipe, 50 # of cross sectional area | 00:04:41 | | M 3 |
| | 137.15 | Crack Circumferential, from 12 to 12 o'clock, within 8 inch: YES | 00:07:20 | 65, b | S 1 |
| | 138.85 | Upstream Manhole, Survey Ends 2073-TRNK | 00:07:44 | 67 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4111 | 3123 | 5 | 9 | 14 | 2.5 | 2.25 | 2.33 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100401 | P.O.☐: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1227 | PSR: 120475 |
| Total Pipe Length: 291 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04.01 2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: GARVEY AV | Flow Control: N Not Controlled | Start MH: 2073-0375 |
| City: SEM | Year Renewed | End MH: 2073-0387 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 348.47 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 291 |
| Drain. Area: 0375 2073-0387 2073 | Lining Method: |
| | Category: |

Remark.: **A THE FLOW**

| 1:850 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Downstream Manhole, Survey Begins 2073-0387 | | 21751 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 227.21 | Hole, at 02 o'clock, within 8 inch: YES | 00:07:21 | 21752, b | S 4 |
| | 324.13 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:10:32 | 21754 | |
| | 348.47 | Upstream Manhole, Survey Ends 2073-0375 | 00:11:51 | 21755 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4100 | 2200 | 4 | 4 | 8 | 4 | 2 | 2.67 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100426 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1683 | PSR: 120415 |
| Total Pipe Length: 307 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04 26 2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2073 |

| | | |
|---|---------------------------------------|-------------------------------|
| Street: MERCED AV | Flow Control: N Not Controlled | Start MH: 2073-0434 |
| City: SEM | Year Renewed | End MH: 2073-0435 |
| Location Code: B Main Highway - Suburban Rural | Tape/Media ☐ | pipe length: 340.74 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 307 |
| Drain. Area: 0434 2073-0435 2073 | Lining Method: |
| | Category: |

Remark:: **MH ☐'S REVERSED ON MAP**

| 1:850 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2073-0435 | | 29303 | |
| | 0.00 | Water Level, 20 of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 25 of cross sectional area | | | M 2 |
| | 3.89 | Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES | 00:01:22 | 29304 | |
| | 39.98 | Water Level, Sag in pipe, 50 ☐ of cross sectional area | 00:02:35 | | M 3 |
| | 72.68 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:17 | 29305 | |
| | 82.06 | Water Level, 25 of cross sectional area | 00:05:01 | | M 2 |
| | 129.69 | Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES | 00:06:46 | 29306 | |
| | 141.45 | Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES | 00:07:17 | 29307 | |
| | 228.60 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:09:56 | 29308 | |
| | 243.28 | Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES | 00:10:29 | 29309 | |
| | 276.15 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:11:31 | 29310 | |
| | 286.82 | Water Level, Sag in pipe, 50 ☐ of cross sectional area | 00:12:08 | | M 3 |
| | 337.42 | Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES | 00:14:11 | 29311, b | S 4 |
| | 339.43 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:14:27 | 29313 | |
| | 340.74 | Downstream Manhole, Survey Ends 2073-0434 | 00:15:19 | 29314 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4100 | 3223 | 4 | 12 | 16 | 4 | 2.4 | 2.67 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100310 | P.O.☐: Y0TV0910B | Weather: 1 Dry | Surveyed By: B.FUGATE | section number: 661 | PSR: 120457 |
| Total Pipe Length: 110 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 03.10.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2074 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: STROZIER AV | Flow Control: N Not Controlled | Start MH: 2074-0023 |
| City: SEM | Year Renewed | End MH: 2074-0024 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 134.69 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 110 |
| Drain. Area: 0023 2074-0024 2074 | Lining Method: |
| | Category: |

Remark.: **Against the flow**

| 1:350 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Downstream Manhole, Survey Begins 2074-0023 | | 11547 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 10 ☐ of cross sectional area | | | M 2 |
| | 71.43 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:02:31 | 11548 | |
| | 71.81 | Fracture Multiple, from 09 to 04 o'clock, within 8 inch: YES | 00:02:40 | 11549, b | S 4 |
| | 82.12 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:03:16 | 11551 | |
| | 128.76 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:04:55 | 11552 | |
| | 134.69 | Upstream Manhole, Survey Ends 2074-0024 | 00:05:34 | 11553 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4100 | 2200 | 4 | 4 | 8 | 4 | 2 | 2.67 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|---------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100427 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1885 | PSR: 120359 |
| Total Pipe Length: 62 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04 27 2010 | Pre-Cleaned: J Jetting | Map Grid #: 2074 |

| | | |
|---|---------------------------------------|----------------------------|
| Street: SANTA ANITA AV | Flow Control: N Not Controlled | Start MH: 2074-0041 |
| City: SEM | Year Renewed: | End MH: 2074-TRNK |
| Location Code: B Main Highway - Suburban Rural | Tape/Media #: | pipe length: 12 ft |

| | |
|--|---|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 62 |
| Drain. Area: 0041 2074-TRNK 2074 | Lining Method: |
| | Category: |

Remark: **A THE FLOW**

| 1:50 | position | observation | MPEG | photo | grade |
|------|----------|--|---|--|--|
| | | <p>Downstream Manhole, Survey Begins 2074-TRNK</p> <p>Water Level, 5 <input type="checkbox"/> of cross sectional area</p> <p>Water Mark, 5 <input type="checkbox"/> of cross sectional area</p> <p>Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES</p> <p>Upstream Manhole, Survey Ends 2074-0041</p> | <p></p> <p></p> <p>00:01:07</p> <p>00:01:47</p> | <p>31</p> <p></p> <p>32, b</p> <p>34</p> | <p></p> <p>M 2</p> <p>M 2</p> <p>S 4</p> |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4100 | 2200 | 4 | 4 | 8 | 4 | 2 | 2.67 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100420 | P.O. #: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1766 | PSR: 120381 |
| Total Pipe Length: 294 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04 20 2010 | Pre-Cleaned: J Jetting | Map Grid #: 2074 |

| | | |
|---|---------------------------------------|------------------------------|
| Street: | Flow Control: N Not Controlled | Start MH: 2074-0060 |
| City: SEM | Year Renewed | End MH: 2074-0061 |
| Location Code: D Easement Right of Way | Tape/Media # | pipe length: 289.8 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 294 |
| Drain. Area: 0060 2074-0061 2074 | Lining Method: |
| | Category: |

Remark:: **MH #'S REVERSED ON MAP**

| 1:725 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2074-0061 | | 30588 | |
| | 0.00 | Water Level, 10' of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 10' of cross sectional area | | | M 2 |
| | 41.64 | Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES | 00:02:03 | 30589 | |
| | 43.95 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:02:13 | 30590 | |
| | 141.10 | Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES | 00:04:56 | 30591 | |
| | 143.83 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:05:06 | 30592 | |
| | 251.66 | Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES | 00:08:26 | 30593 | |
| | 254.19 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:08:38 | 30594 | |
| | 286.05 | Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES | 00:09:43 | 30595, b | S 4 |
| | 289.80 | Downstream Manhole, Survey Ends 2074-0060 | 00:10:38 | 30597 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4100 | 2200 | 4 | 4 | 8 | 4 | 2 | 2.67 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100414 | P.O.☐: Y0TV0910B | Weather: 1 Dry | Surveyed By: J SALAS | section number: 1579 | PSR: 120227 |
| Total Pipe Length: 269 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04.14.2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2074 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: DURFEE AV | Flow Control: N Not Controlled | Start MH: 2074-0128 |
| City: SEM | Year Renewed | End MH: 2074-0129 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 299.01 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 269 |
| Drain. Area: 0128 2074-0129 2074 | Lining Method: |
| | Category: |

Remark:: **MH ☐'S REVERSED ON MAP**

| 1:750 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2074-0129 | | 27927 | |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 10 ☐ of cross sectional area | | | M 2 |
| | 8.88 | Fracture Multiple, from 03 to 06 o'clock, within 8 inch: YES | 00:00:55 | 27928, b | S 4 |
| | 10.23 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:01:08 | 27930 | |
| | 40.17 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:02:03 | 27931 | |
| | 61.19 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:02:42 | 27932 | |
| | 85.09 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:03:31 | 27933 | |
| | 109.04 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:04:21 | 27934 | |
| | 136.15 | Water Level, 15 ☐ of cross sectional area | 00:05:16 | | M 2 |
| | 158.82 | Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES | 00:05:58 | 27935 | |
| | 160.85 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:06:10 | 27936 | |
| | 197.22 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:07:23 | 27937 | |
| | 198.31 | Water Level, 10 ☐ of cross sectional area | 00:07:31 | | M 2 |
| | 208.99 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:07:52 | 27938 | |
| | 243.31 | Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES | 00:09:02 | 27939 | |
| | 266.76 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:09:49 | 27940 | |
| | 293.82 | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:10:58 | 27941 | |
| | 299.01 | Downstream Manhole, Survey Ends 2074-0128 | 00:11:39 | 27942 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4100 | 2400 | 4 | 8 | 12 | 4 | 2 | 2.4 |



National Plant Services
 1461 HARBOR AVENUE
 LONG BEACH 90813 CA
 Tel: (562) 436-7600, Fax:

Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------|
| Date: 20100428 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: B FUGATE | section number: 1854 | PSR: 116258 |
| Total Pipe Length: 243 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04 28 2010 | Pre-Cleaned: J Jetting | Map Grid ☐: 2123 |

| | | |
|--|---------------------------------------|-------------------------------|
| Street: DURFEE AV | Flow Control: N Not Controlled | Start MH: 2123-0076 |
| City: SEM | Year Renewed | End MH: 2123-0083 |
| Location Code: A Main Highway - Urban | Tape/Media ☐ | pipe length: 295.52 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 243 |
| Drain. Area: 0076 2123-0083 2123 | Lining Method: |
| | Category: |

Remark:: **MH S REVERSED ON DATABASE**

| 1:725 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|-------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2123-0083 | | | 85 |
| | 0.00 | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | 0.00 | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | 21.77 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:01:15 | | 86 |
| | 72.79 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:03:09 | | 87 |
| | 120.02 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:04:49 | | 88 |
| | 170.84 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:06:50 | | 89 |
| | 215.83 | Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES | 00:08:40 | | 90 |
| | 248.39 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:09:51 | | 91 |
| | 290.08 | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:11:23 | | 92 |
| | 290.86 | Roots Fine Joint, from 12 to 03 o'clock, within 8 inch: YES | 00:11:32 | | 93, b |
| | 294.35 | Fracture Multiple, from 07 to 05 o'clock, within 8 inch: YES | 00:11:55 | 95, b | S 4 |
| | 295.52 | Downstream Manhole, Survey Ends 2123-0076 | 00:12:24 | | 97 |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4100 | 2200 | 4 | 4 | 8 | 4 | 2 | 2.67 |



Inspection report

| | | | | | |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|---------------------------|
| Date: 20100427 | P.O.☐ Y0TV0910B | Weather: 1 Dry | Surveyed By: B FUGATE | section number: 1848 | PSR: 120319 |
| Total Pipe Length: 279 | Survey Customer: LACDPW | System Owner: SEM | Clean Date: 04 27 2010 | Pre-Cleaned: J Jetting | Map Grid ☐ 2124 |

| | | |
|---------------------------------------|---------------------------------------|-------------------------------|
| Street: REMER ST | Flow Control: N Not Controlled | Start MH: 2124-0207 |
| City: SEM | Year Renewed | End MH: 2074-0108 |
| Location Code: C Light Highway | Tape/Media ☐ | pipe length: 293.58 ft |

| | |
|--|--|
| Reason for inspection: F Routine Assessment | Dia/Height: C Circular 8 8 |
| Use of Sewer: SS Sanitary | Material: VCP Pipe Length: 279 |
| Drain. Area: 0207 2124-0108 2074 | Lining Method: |
| | Category: |

Remark.: **NONE**

| 1:725 | position | observation | MPEG | photo | grade |
|-------|---------------|--|----------|----------|-------|
| | 0.00 | Upstream Manhole, Survey Begins 2124-0207 | | 31609 | |
| | <u>0.00</u> | Water Level, 5 ☐ of cross sectional area | | | M 2 |
| | <u>0.00</u> | Water Mark, 5 ☐ of cross sectional area | | | M 2 |
| | <u>30.90</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:01:20 | 31610 | |
| | <u>36.93</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:01:38 | 31611 | |
| | <u>86.10</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:03:07 | 31612 | |
| | <u>88.82</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:03:20 | 31613 | |
| | <u>137.70</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:04:49 | 31614 | |
| | <u>140.42</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:05:02 | 31615 | |
| | <u>189.50</u> | Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES | 00:06:34 | 31616 | |
| | <u>192.32</u> | Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES | 00:06:47 | 31617 | |
| | <u>206.50</u> | Fracture Multiple, from 11 to 01 o'clock, within 8 inch: YES | 00:07:24 | 31618, b | S 4 |
| | <u>293.58</u> | Downstream Manhole, Survey Ends 2074-0108 | 00:10:06 | 31620 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 4100 | 2200 | 4 | 4 | 8 | 4 | 2 | 2.67 |