



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

June 23, 2011

IN REPLY PLEASE
REFER TO FILE **SM-1**

Mr. Allan Rigg, Director of Public Works
City of Palos Verdes Estates
340 Palos Verdes Drive West
Palos Verdes Estates, CA 90274

Attention Ms. Floriza Rivera

Dear Mr. Rigg:

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORTS PROJECT NOS. Y0TV0809C AND Y0TV0809D

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 111,785 feet or approximately 39.8 percent of the City of Palos Verdes Estates' sewer system as part of Project Nos. Y0TV0809C and Y0TV0809D.

The enclosed reports outline the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's rating methodology. Included in the reports 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) (not included for Project No. Y0TV0809D)
- Quick Structural Rating Report Priority List and Quick Structural Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

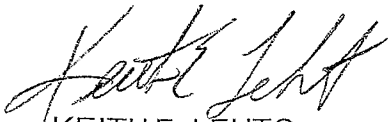
Mr Allan Rigg
June 23, 2011
Page 2

The Condition Assessment Report provides 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 where warranted. In addition, the segments with severe structural defects have either been repaired or will be scheduled for repair as part of our ongoing Accumulative Capital Outlay Program.

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 rswartz@dpw.lacounty.gov.

Very truly yours,

GAIL FARBER
Director of Public Works



KEITHE LEHTO
Assistant Deputy Director
Sewer Maintenance Division

HK.gy
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Enc.

bc Programs Development (PILKER)
KL, MM, RS, FV, **File** (Project Y0TV0809C and Y0TV0809D), SPINDLE

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

PROJECT NAME: Y0TV0809C	PROJECT MGR: Kari Eskridge
PROJECT DATE: 08/10/09	CONTACT NO: (626) 300-3390
SUP. DISTRICT(S): 4	MAP PAGE(S): 1597,1544,1543,1490 □1498
Report By: Hanna Kebede	Report Date: 06/07/2011

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 85,278 feet or approximately 30.4 percent of the City of Palos Verdes Estates 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 Y0TV0809C included sewer lines located in the in the Cities of Glendora, Palos Verdes Estates, Rancho Palos Verdes and San Dimas and Unincorporated County of Los Angeles area. Enclosed for your reference is an overview map of the project area within 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 87.0 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 13.0 percent of the inspected pipe segments within the City of Palos Verdes Estates 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	444	0.5	3
2: Good	73,780	86.5	405
3: Fair	3,945	4.6	24
4: Poor	6,296	7.4	34
5: Immediate Attention	813	1.0	5
TOTAL	85,278	100.0	471

High Water Levels

Our inspection revealed that approximately 97.7 percent of the system televised has adequate capacity. However, the remaining 2.3 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.

In addition, a separate analysis was conducted to determine the presence of infiltration in the inspected lines. Our analysis did not reveal any lines impacted with infiltration issues.

STRUCTURAL REPORT

Our inspection revealed that approximately 92.9 percent of the inspected pipe segments within the City of Palos Verdes Estates were free of severe structural defects. However, the remaining 7.1 percent of the inspected pipe segments had a PACP structural grade of 4 and 5 as indicated in the Quick Structural Rating Table shown below. The segments have been placed on a priority list based on the severity and the need for action. For Items 1 through 31 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. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. Copies of the actual inspection report for these 31 segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	73,456	86.2	411
2: Good	3,139	3.7	16
3: Fair	2,587	3.0	13
4: Poor	4,811	5.6	25
5: Immediate Attention	1,285	1.5	6
TOTAL	85,278	100.0	471

CCTV INSPECTION PROJECTS

The Sewer Condition Assessment Program has performed the following closed-circuit television (CCTV) inspection of the sewer lines within the City of Palos Verdes Estates.

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2006-2007	Y0TV0607D	169,162	60.2	COMPLETE
2008-2009	Y0TV0809C	85,279	30.4	COMPLETE
2008-2009	Y0TV0809D	26,507	9.4	COMPLETE
TOTAL		280,948	100.0	

ENCLOSURE 1:

Project Overview Map

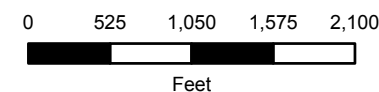
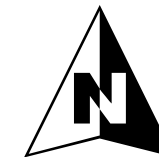
OVERVIEW MAP

CCTV PROJECT

Y0TV0809C

PALOS VERDES ESTATES

Cities of
Glendora, San Dimas,
Rancho Palos Verdes,
Palos Verdes Estates &
County Unincorporated



Legend

— SMD Sanitary Sewers

SMD Manholes

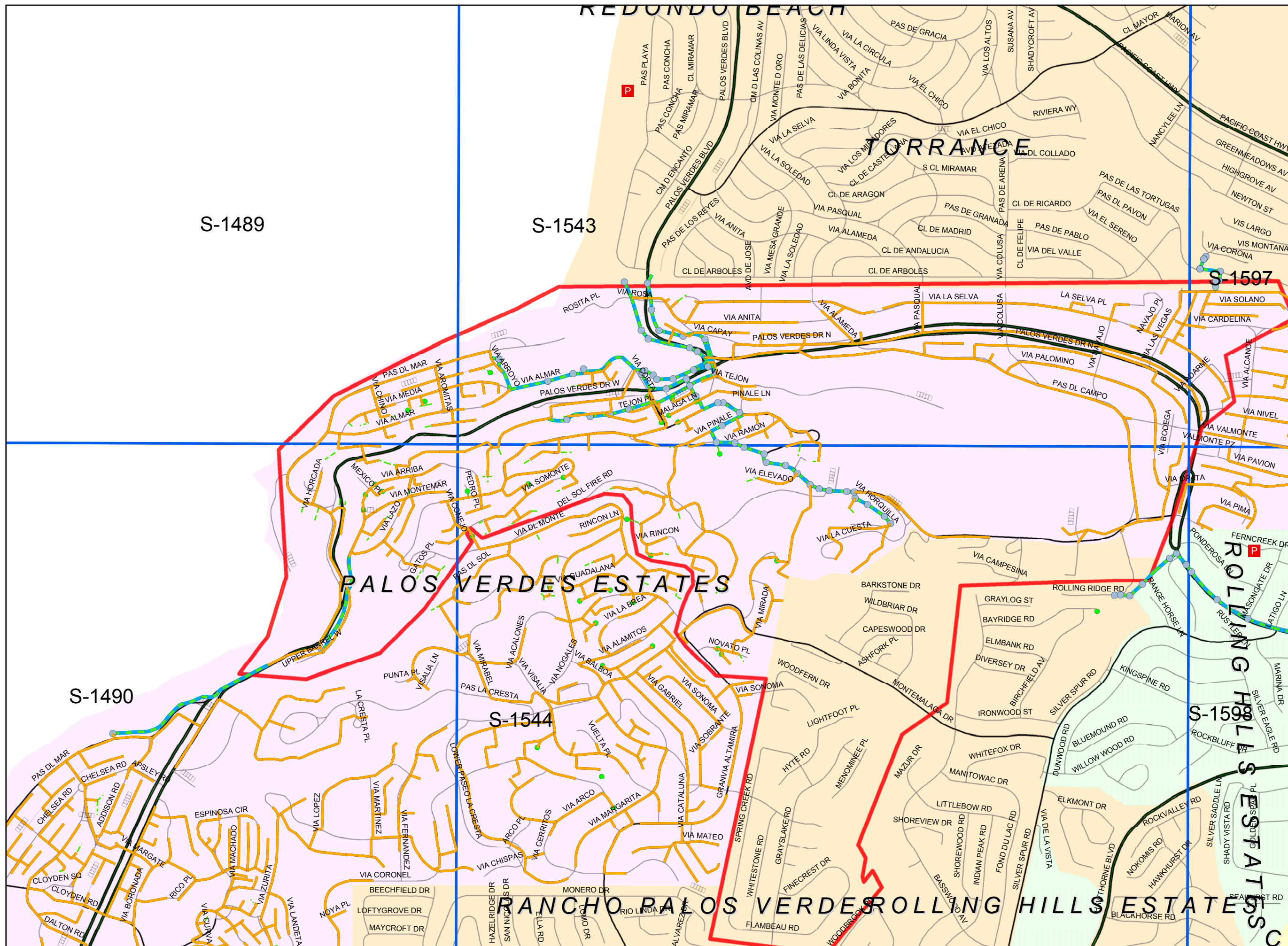
- Other
- Standard
- ▲ DROP
- Shallow
- ◇ Trap
- ⊗ Siphon
- P SMD Pump Stations
- WTP SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0809C

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.

FEBRUARY 2011



ENCLOSURE 2:

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

ENCLOSURE 2
 QUICK MAINTENANCE REPORT PRIORITY LIST
 CITY OF PALOS VERDES ESTATES (Y0TV0809C)
 as of 08/10/09

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken	Completed Date
1	5143	1543-0213	1543-0212	EASMENT BY PALOS VERDES DR N	Root ball	Rodder	07/12/2010
2	5122	1544-0995	1544-0994	EASMENT BY VIA PANORAMA	Root ball	Millcutter	07/23/2010
3	5121	1543-0230	1543-0251	EASMENT BY VIA ANITA	Root ball	Rodder	07/12/2010
4	5121	1544-1021	1544-0876	EASMENT BY VIA DEL MONTE	Root ball	Rodder	01/06/2011
5	5100	1544-0891	1544-0892	EASMENT BY VIA SOMONTE	Roots; deposits	Rodder	07/26/2010
6	4331	1543-C0	1543-0177	VIA CORTA	Root ball	Rodder	04/28/2010
7	4321	1543-0068	1543-0067	PASEO DEL CAMPO	Root ball	Hydrojet	07/09/2010
8	4221	1543-0047	1543-0048	EASMENT BY PALOS VERDES DR N	Roots (Lateral: 67' □ 227')	Lateral notice will be sent to property owner.	
9	4200	1543-0227	1543-0228	VIA ANITA	Roots (Lateral: 38' □ 1 94')	Lateral notice will be sent to property owner.	
10	413C	1543-0202	1543-0257	EASMENT BY PALOS VERDES DR N	Root ball	Hydrojet	07/12/2010
11	4131	1543-0198	1543-0199	VIA TEJON	Roots Ball	Hydrojet	04/28/2010
12	4131	1543-0211	1543-0212	EASMENT BY PALOS VERDES DR N	Roots	Rodder	07/12/2010
13	4131	1489-0027	1489-0028	EASMENT BY VIA MEDIA	Alignment Left	No action needed	
14	4131	1490-0423	1544-1040	EASMENT BY PALOS VERDES DR W	Obstacles (rocks)	Hydrojet	07/09/2010
15	412F	1544-0919	1544-0918	VIA RINCON	Camera underwater	Hydrojet	07/12/2010
16	4121	1543-0102	1543-0103	EASMENT BY VIA LA SELVA	Root ball	Hydrojet	07/09/2010
17	4121	1597-0037	1543-0104	VIA LA SELVA	Root ball	Hydrojet	07/09/2010
18	4121	1597-0080	1543-0107	VIA CARDELINA	Root ball	Hydrojet	07/09/2010
19	4121	1597-0031	1597-0032	PALOS VERDES DR N	Root ball	Hydrojet	07/09/2010
20	4121	1597-0078	1597-0077	EASMENT BY VIA ARDILLA	High water level (75□); camera underwater	Hydrojet	07/09/2010
21	4121	1543-0028	1543-0029	EASMENT BY PALOS VERDES DR N	Root ball	Hydrojet	07/09/2010
22	4121	1543-0009	1543-0007	PALOS VERDES DR N	Root ball	Hydrojet	07/09/2010
23	4121	1543-0226	1543-0227	VIA ANITA	Root ball	Hydrojet	04/23/2010
24	4121	1543-0235	1543-0236	VIA LA SELVA	Root ball	Hydrojet	04/28/2010
25	4121	1543-0237	1543-0238	VIA LA SELVA	Root ball	Hydrojet	04/23/2010
26	4121	1543-0197	1543-0198	VIA TEJON	Root ball	Rodder	04/23/2010
27	4121	1543-0214	1543-0215	EASMENT BY PALOS VERDES DR N	Root ball	Hydrojet	07/12/2010
28	4121	1490-0429	1490-0430	EASMENT BY VIA DEL MONTE	Root ball	Hydrojet	01/06/2011
29	4121	1544-1007	1544-0807	EASMENT BY VIA RINCON	Alignment Left	No action needed	
30	4121	1490-0331	1490-0332	PALOS VERDES DR W	Root ball	Hydrojet	07/12/2010
31	4121	1544-CO	1544-0995	EASMENT BY VIA PANORAMA	Obstacles	Rodder	04/26/2010
32	4121	1490-0346	1490-0347	PASEO DEL MAR	Root ball	Rodder	04/23/2010
33	4121	1489-0013	1489-0012	EASMENT BY VIA ALMAR	Root ball	Rodder	07/26/2010
34	411C	1543-0228	1543-0258	VIA ANITA	Root ball	Hydrojet	04/23/2010
35	4111	1597-0072	1597-0073	EASMENT BY VIA SOLANO	Root ball	Hydrojet	01/06/2011
36	4100	1489-0021	1489-0020	EASMENT BY PALOS VERDES DR W	Root ball (Lateral: 84')	Lateral notice will be sent to property owner.	
37	4100	1543-0220	1543-0221	EASMENT BY VIA CAPAY	Root ball (Lateral: 187')	Lateral notice will be sent to property owner.	
38	4100	1543-0229	1543-0262	EASMENT BY VIA ANITA	Root ball (Lateral: 46')	Lateral notice will be sent to property owner.	
39	4100	1543-0251	1543-0263	VIA ANITA	Root ball (Lateral: 66')	Lateral notice will be sent to property owner.	
40	3G21	1543-0238	1543-0259	VIA CAPAY	Root ball	Rodder	07/12/2010

ENCLOSURE 2
 QUICK MAINTENANCE REPORT PRIORITY LIST
 CITY OF PALOS VERDES ESTATES (Y0TV0809C)
 as of 08/10/09

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken	Completed Date
41	3B21	1543-0216	1543-0217	EASMENT BY VIA CAPAY	Roots	Rodder	07/12/2010
42	3200	1490-0422	1490-0423	EASMENT BY PALOS VERDES DR W	Obstacles (rocks)	Hydrojet	01/06/2011
43	312E	1490-0384	1490-0385	VIA ARRIBA	Water mark (50□)	No action needed.	
44	3122	1544-0985	1544-0984	EASMENT BY DEL SOLFIRE RD	Roots	Hydrojet	01/06/2011
45	3121	1489-C.O.	1489-0025	EASMENT BY VIA MEDIA	Roots	Hydrojet	04/23/2010
46	3121	1544-0805	1544-0806	VIA RINCON	Roots	Hydrojet	07/12/2010
47	3121	1543-0149	1543-0150	VIA DEL MONTE	Root ball	Hydrojet	07/12/2010
48	3121	1490-0407	1490-L.H.	VIA ARRIBA	Deposits	Hydrojet	07/12/2010
49	3121	1543-0118	1543-0119	EASMENT BY PALOS VERDES DR W	Roots	Rodder	07/12/2010
50	3121	1544-0875	1544-0876	EASMENT BY VIA DEL MONTE	Deposits	Hydrojet	01/06/2011
51	3121	1544-0967	1544-0968	EASMENT BY VIA DEL MONTE	Roots	Hydrojet	01/06/2011
52	3121	1543-0144	1543-0146	VIA ARROYO	Water sag (50□)	Hydrojet	01/07/2011
53	3111	1490-0409	1490-0421	EASMENT BY PALOS VERDES DR W	Water mark (40□)	No action needed.	
54	3100	1490-0407	1490-0408	VIA ARRIBA	Water mark (40□)	No action needed.	
55	3200	1543-0252	1543-0159	EASMENT BY VIA DEL MONTE	Water mark (50□)	No action needed.	
56	3100	1490-0383	1490-0384	VIA ARRIBA	Water mark (50□)	No action needed.	
57	3100	1490-0447	1490-L.H.	VIA ARRIBA	Water mark (40□)	No action needed.	
58	3100	1490-0385	1490-L.H.	VIA ARRIBA	Water mark (40□)	No action needed.	
59	3100	1490-0447	1490-L.H.S	VIA ARRIBA	Water mark (50□)	No action needed.	
60	3100	1490-0447	1490-L.H.N	VIA ARRIBA	Water mark (50□)	No action needed.	
61	3100	1543-0115	1543-0116	EASMENT BY PALOS VERDES DR W	Water mark (50□)	No action needed.	
62	3100	1543-0116	1543-0117	EASMENT BY PALOS VERDES DR W	Water mark (50□)	No action needed.	
63	3100	1544-0875	1543-0115	EASMENT BY VIA DEL MONTE	Water mark (50□)	No action needed.	



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

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

May 26, 2011

IN REPLY PLEASE

REFER TO FILE:

SM-1

Glenn Jeanes
1570 Morada Place
Altadena, CA 91001

Dear Mr. Jeanes:

SEWER LATERAL ROOT INTRUSION 1570 MORADA PLACE, 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 1570 Morada Place, 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

Glenn Jeanes
May 26, 2011
Page 2

your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup.

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 fvillaluna@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

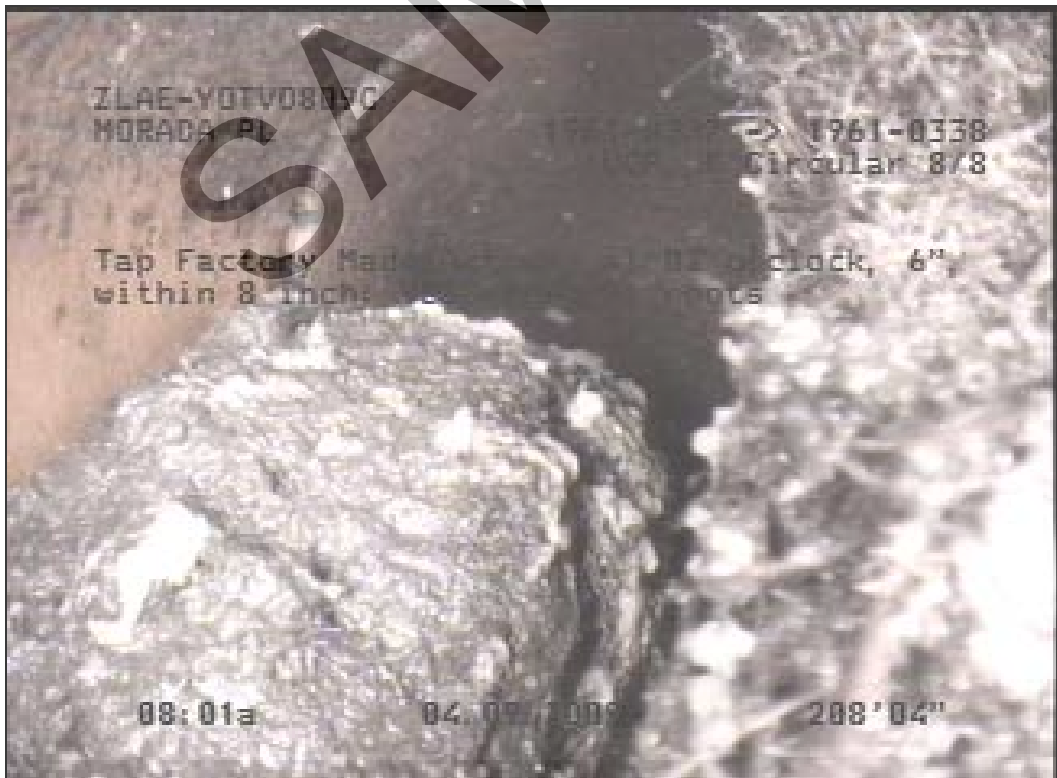
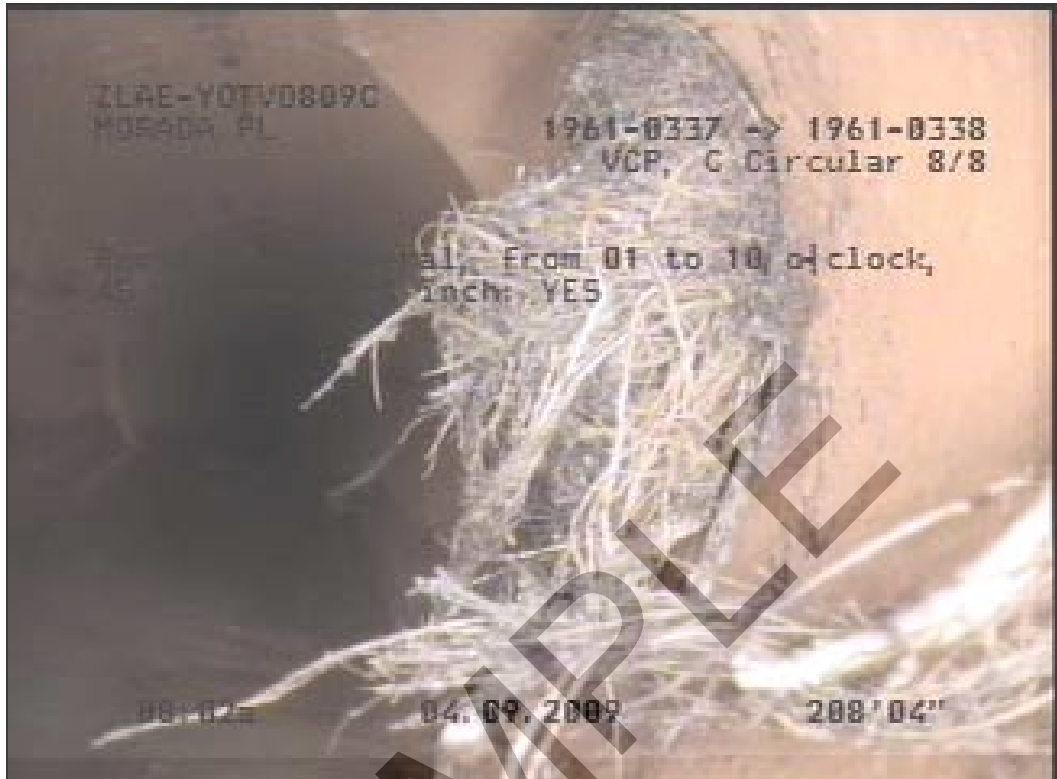
KEITH LEHTO
Assistant Deputy Director
Sewer Maintenance Division

EL:

Enc.

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

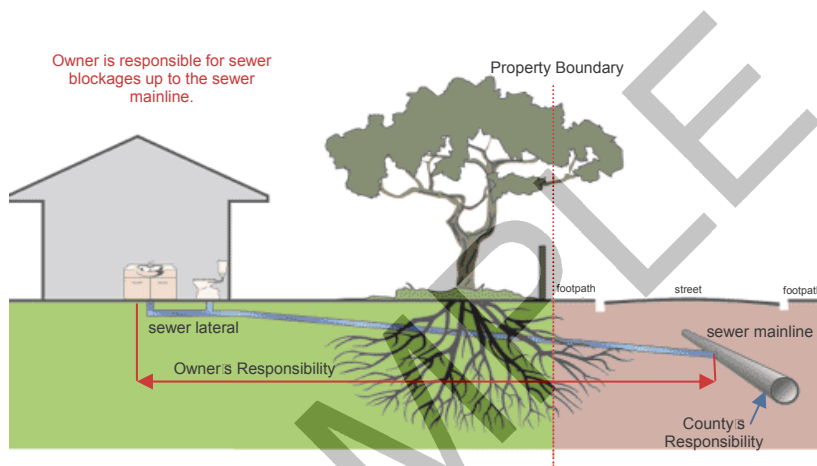
**1570 MORADA PLACE
ALTADENA**
Roots at Lateral Connection



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 LATERALS – AREAS OF RESPONSIBILITY



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 2
HIGH WATER LEVELS
CITY OF PALOS VERDES ESTATES (Y0TV0809C)

as of 08/10/09

Item No.	QMR	Start MH	End MH	Street	Observation	Capacity (Location)
1	3100	1490-0383	1490-0384	VIA ARRIBA	Water Mark	50%(0'-85')
2	3121	1543-0144	1543-0146	VIA ARROYO	Water Sag	50%(81'-100')
3	312E	1490-0384	1490-0385	VIA ARRIBA	Water Mark	50%(0'-207')
4	3100	1490-0407	1490-0408	VIA ARRIBA	Water Mark	40%(0'-237')
5	3200	1543-0252	1543-0159	EASMENT BY VIA DEL MONTE	Water Mark	50%(0'-194')
6	3100	1490-0447	1490-L.H.	VIA ARRIBA	Water Mark	40%(0'-117')
7	3100	1490-0385	1490-L.H.	VIA ARRIBA	Water Mark	40%(0'-110')
8	3100	1490-0447	1490-L.H.S	VIA ARRIBA	Water Mark	50%(0'-98')
9	3100	1490-0447	1490-L.H.N	VIA ARRIBA	Water Mark	50%(0'-101')
10	3111	1490-0409	1490-0421	EASMENT BY PALOS VERDES DR W	Water Mark	40%(0'-168')
11	3100	1543-0115	1543-0116	EASMENT BY PALOS VERDES DR W	Water Mark	40%(0'-70')
12	3100	1543-0116	1543-0117	EASMENT BY PALOS VERDES DR W	Water Mark	40%(0'-190')
13	3100	1544-0875	1543-0115	EASMENT BY VIA DEL MONTE	Water Mark	50%(0'-129')

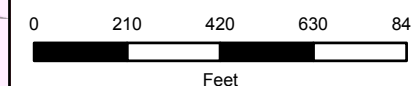
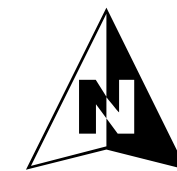
ENCLOSURE 2

CCTV PROJECT

Y0TV0809C

PALOS VERDES
ESTATES

QUICK
MAINTENANCE
RATING
(QMR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

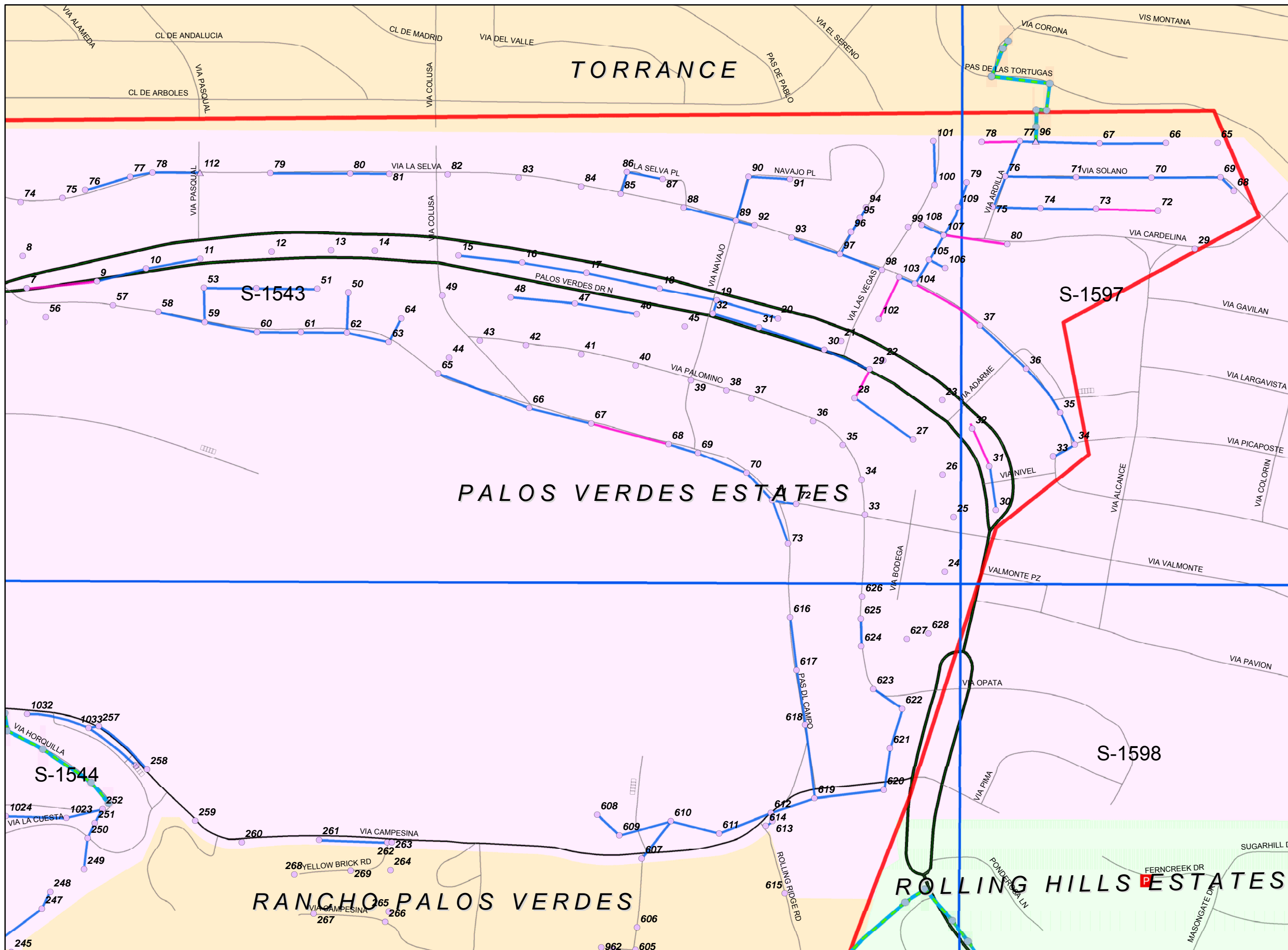
- Other (Circle with cross)
- Manhole Type
 - Standard (Purple circle)
 - DROP (Purple triangle)
 - Shallow (Purple square)
 - Trap (Purple diamond)
 - Siphon (Purple circle with cross)
 - SMD Pump Stations (Red square with 'P')
 - SMD Treatment Plants (Black square with 'WTP')

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)
- Y0TV0809C (Red outline)

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FEBRUARY 2011

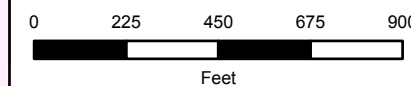
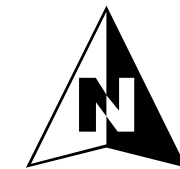


TORRANCE

PALOS VERDES ESTATES

ROLLING HILLS ESTATES

RANCHO PALOS VERDES



Legend

SMD Sanitary Sewers

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

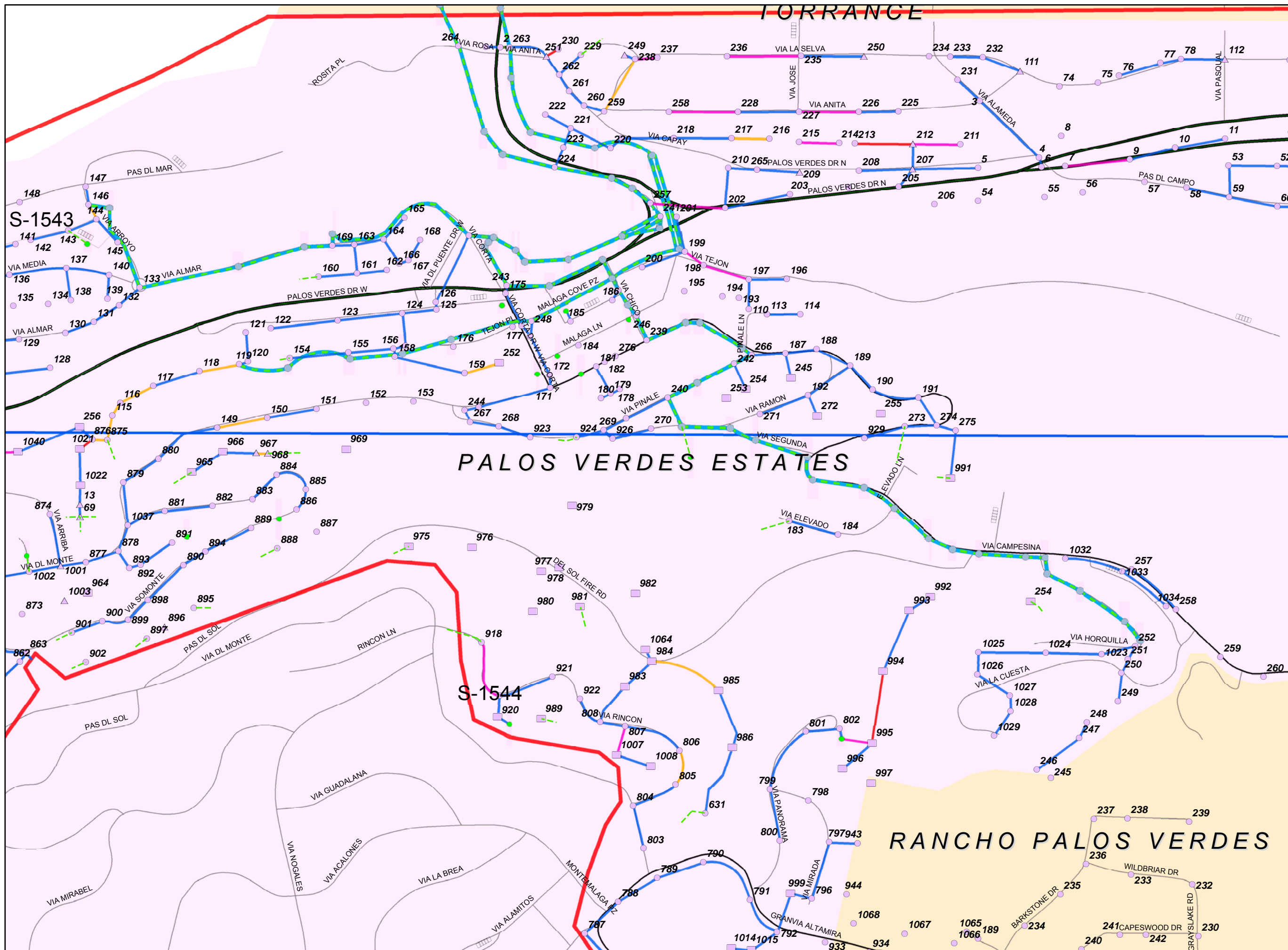
SMD Manholes

- Other
- Manhole Type:
 - Standard
 - DROP
 - Shallow
 - Trap
 - Siphon
 - SMD Pump Stations
 - SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0809C

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S-1543

PALOS VERDES ESTATES

S-1544

RANCHO PALOS VERDES

TORRANCE



Legend

SMD Sanitary Sewers

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

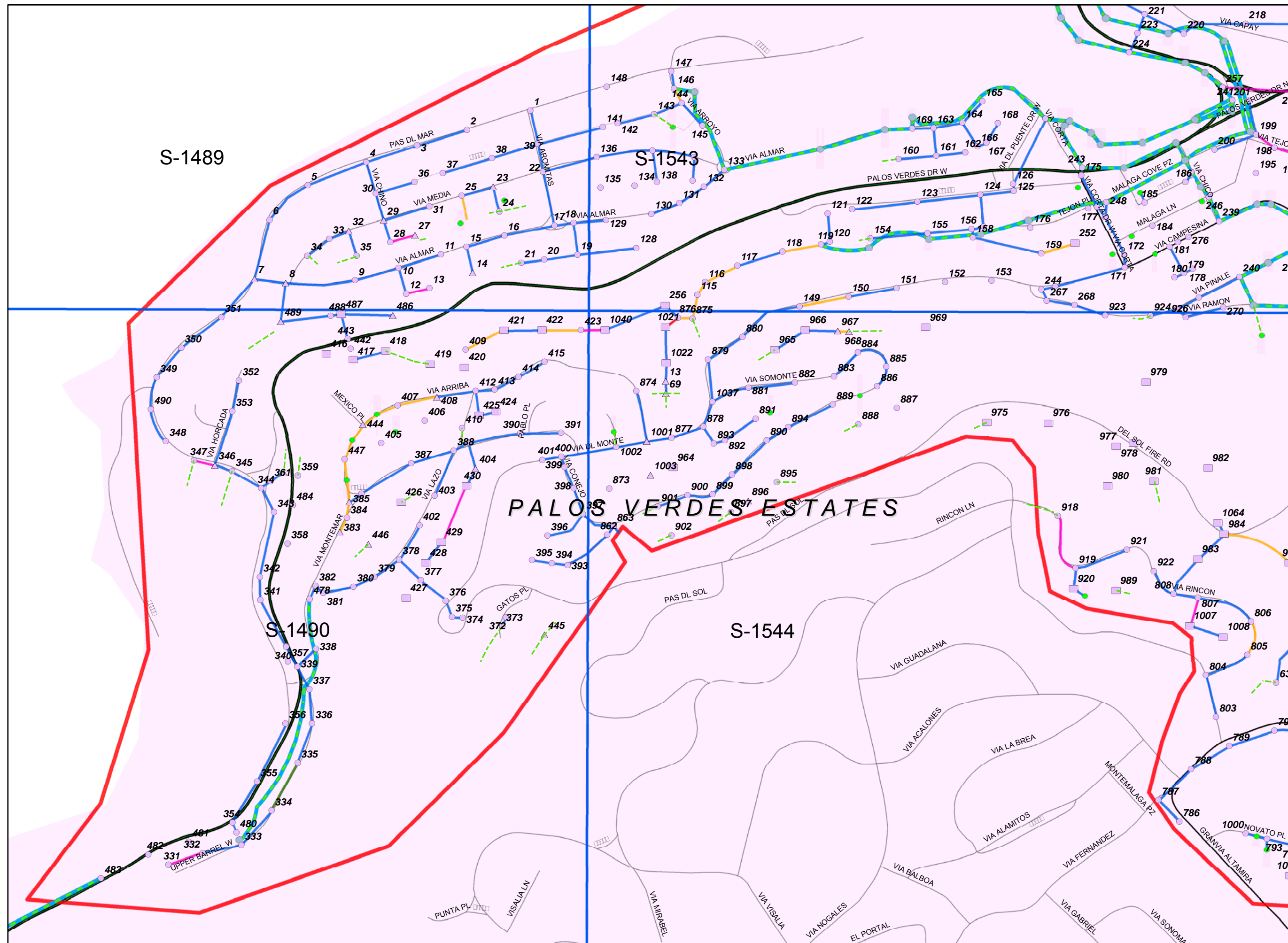
SMD Manholes

- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0809C

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S-1489

S-1543

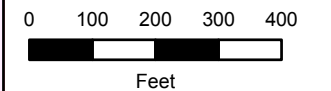
S-1490

S-1544

PALOS VERDES ESTATES

PALOS VERDES ESTATES

HIGH WATER LEVEL



Legend

— HIGH WATER LEVELS

SMD Manholes

⊙ Other

Manhole Type

● Standard

▲ DROP

■ Shallow

◇ Trap

⊗ Siphon

P SMD Pump Stations

WTP SMD Treatment Plants

Maintained by Others:

— Trunk Sewerlines

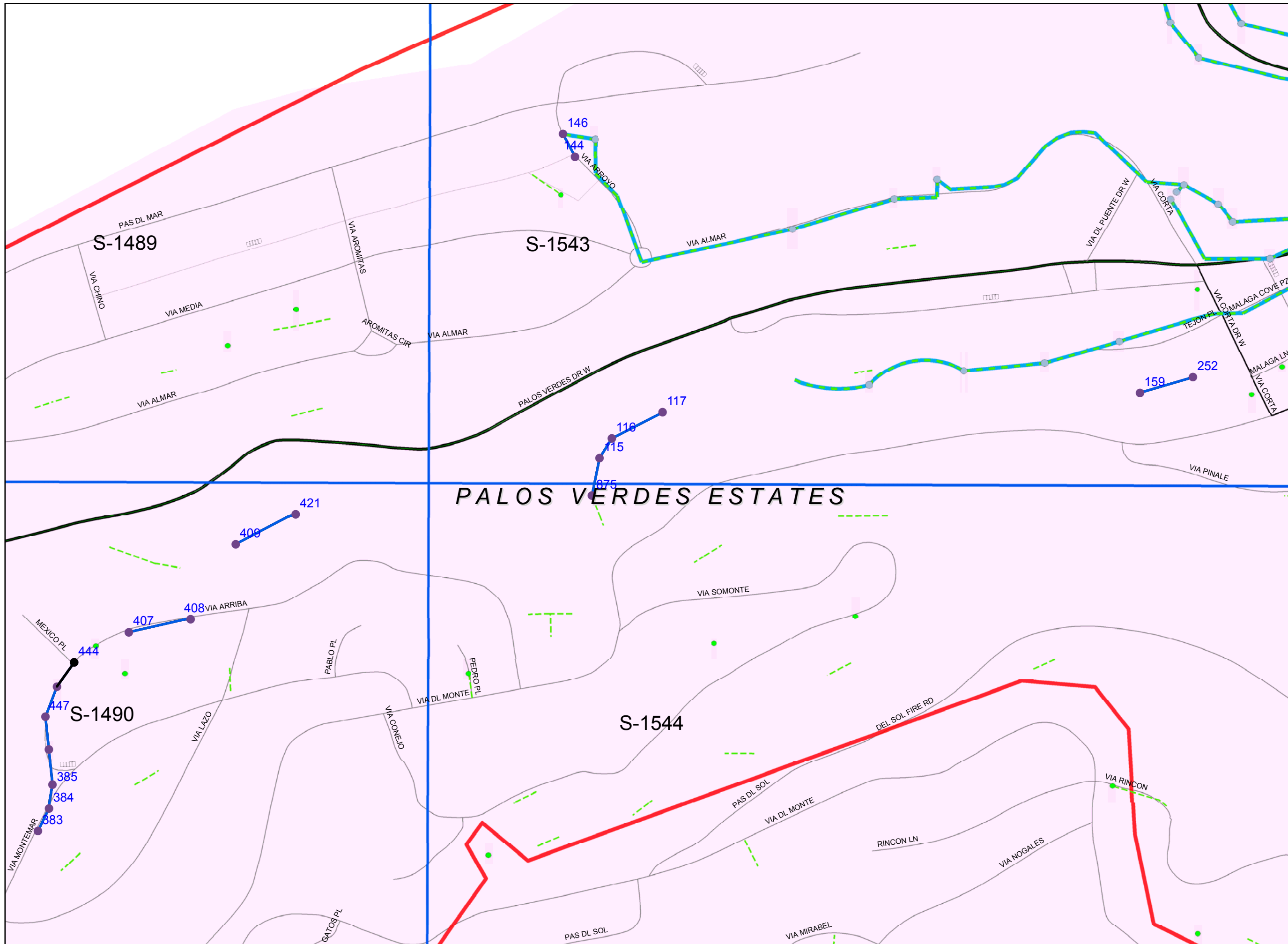
- - - Non SMD Sanitary Sewers

● Non SMD Maintained MH

□ SMD Operations Maps

□ Y0TV0809C

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ENCLOSURE 3:

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

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF PALOS VERDES ESTATES (Y0TV0809C)
as of 08/10/09

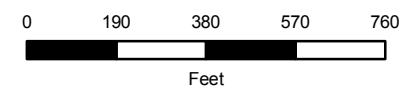
Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (ft)
1	5141	1543-0003	1543-0004	VIA ALAMEDA	Broken: 129', 226 ' ; fractures : 354'	Lining: MH to MH	362
2	5100	1543-0213	1543-0212	EASEMENT BY PALOS VERDES DR N	Broken, hole : 274'	Point Repair	
3	5100	1544-0926	1543-0269	VIA PINALE	Hole (with exterior patch?): 15'	Structural integrity in tact. No action needed.	
4	5100	1543-0172	1543-0173	VIA CORTA	Hole (with exterior patch?): 26'	Structural integrity in tact. No action needed.	
5	5100	1544-0900	1544-0899	VIA SOMONTE	Hole (with exterior patch?): 128'	Structural integrity in tact. No action needed.	
6	5100	1544-0891	1544-0892	EASEMENT BY VIA DEL MONTE	Hole: 140' (upstream flow is low)	Structural integrity in tact. No action needed.	
7	4B31	1543-C0	1543-0177	VIA CORTA	Fractures and cracks: multiple locations	Structural integrity in tact. No action needed.	
8	4221	1543-0047	1543-0048	EASEMENT BY PALOS VERDES DR N	Fractures: 73' (below flowline), 271'	Structural integrity in tact. No action needed.	
9	4200	1543-0227	1543-0228	VIA ANITA	Fractures: 34', 316'	Structural integrity in tact. No action needed.	
10	4126	1543-0009	1543-0007	PALOS VERDES DR N	Fractures :329'-332' (below flowline)	Lining: MH to MH	336
11	4123	1543-0051	1543-0052	EASEMENT BY PALOS VERDES DR N	Fractures: 185', 200', 230', 240', 252'	Lining: MH to MH	285
12	4121	1543-0235	1543-0236	VIA LA SELVA	Fractures: 24' (below flowline)	Lining: MH to MH	350
13	4121	1543-0219	1543-0220	EASEMENT BY VIA CAPAY	Fracture: 43'; joint separation/offset: 72'	Point Repair	
14	4121	1489-0019	1489-0018	ALLEY BY VIA ALMAR	Broken: 45', fractures: 75' (below flowline)	Lining: MH to MH	175
15	4100	1543-0094	1543-0095	VIA NAVAJO PL	Fractures: 5'	Structural integrity in tact. No action needed.	
16	4100	1543-0053	1543-0059	EASEMENT BY PASEO DEL CAMPO	Fractures: 82'	Structural integrity in tact. No action needed.	
17	4100	1543-0063	1543-0062	PASEO DEL CAMPO	Fractures: 116'	Structural integrity in tact. No action needed.	
18	4100	1543-0068	1543-0067	PASEO DEL CAMPO	Fractures: 259'	Structural integrity in tact. No action needed.	
19	4100	1544-0611	1544-0612	EASEMENT BY VIA CAMPESINA	Fracture: 263' (near MH 612)	Structural integrity in tact. No action needed.	
20	4100	1543-0110	1543-0197	PINALE LN	Fractures: 135' (below flowline)	Point Repair	
21	4100	1543-0216	1543-0217	EASEMENT BY PALOS VERDES DR N	Fractures: 8'	Structural integrity in tact. No action needed.	
22	4100	1544-0898	1544-0890	VIA SOMONTE	Fractures: 224'	Structural integrity in tact. No action needed.	
23	4100	1543-0179	1543-0181	EASEMENT BY VIA CAMPESINA	Fractures: 127'	Structural integrity in tact. No action needed.	
24	4100	1489-0039	1489-0001	VIA AROMITAS	Fractures: 31'	Structural integrity in tact. No action needed.	
25	4100	1489-0021	1489-0020	EASEMENT BY PALOS VERDES DR W	Fractures: 118'	Structural integrity in tact. No action needed.	
26	4100	1490-0346	1490-0347	PASEO DEL MAR	Fractures: 134'	Structural integrity in tact. No action needed.	
27	4100	1543-0220	1543-0221	EASEMENT BY PALOS VERDES DR W	Fractures: 134'	Point Repair	
28	4100	1543-0251A	1543-0263	VIA ANITA	Fractures: 32'	Point Repair	
29	4100	1543-0229	1543-0262	EASEMENT BY VIA ANITA	Fractures: 127'	Point Repair	
30	4100	1543-0230	1543-0251	EASEMENT BY VIA ANITA	Fractures: 111'	Structural integrity in tact. No action needed.	
31	4100	1543-0251	1543-0263	VIA ANITA	Fractures: 24'	Structural integrity in tact. No action needed.	

ENCLOSURE 3

CCTV PROJECT Y0TV0809C

PALOS VERDES ESTATES

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

- 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

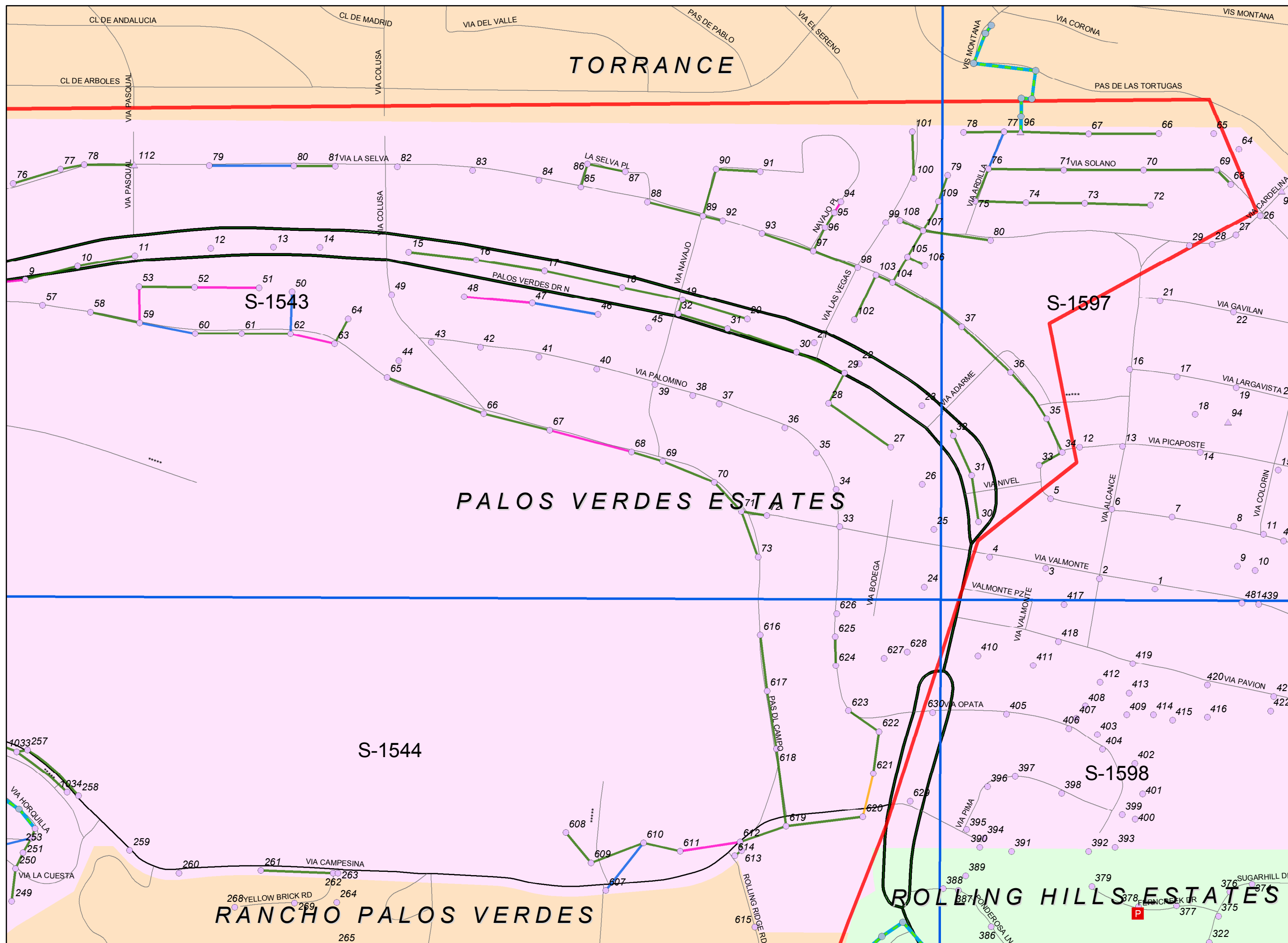
- Standard (Purple circle)
- DROP (Purple triangle)
- Shallow (Purple square)
- Trap (Purple diamond)
- Siphon (Purple circle with cross)
- SMD Pump Stations (Red square with 'P')
- SMD Treatment Plants (Black square with 'WTP')

Maintained by Others:

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- Non SMD Maintained MH (Green circle)
- SMD Operations Maps (Blue outline)
- Y0TV0809C (Red outline)

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FEBRUARY 2011

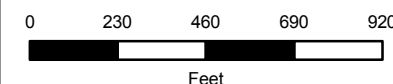


ENCLOSURE 3

CCTV PROJECT YOTV0809C

PALOS VERDES ESTATES

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

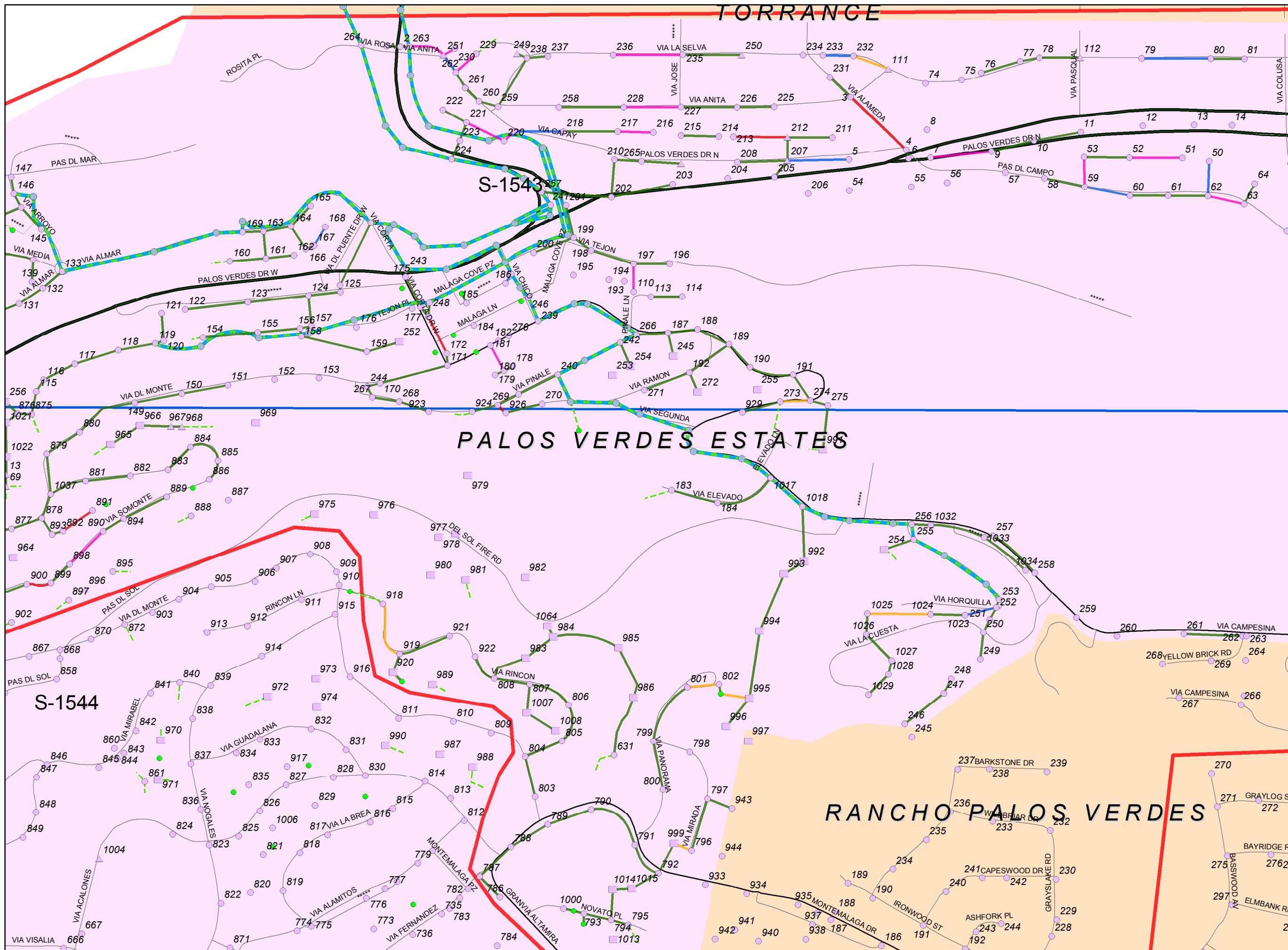
- Other (Circle with cross)
- Manhole Type
 - Standard (Purple circle)
 - DROP (Purple triangle)
 - Shallow (Purple square)
 - Trap (Purple diamond)
 - Siphon (Purple circle with cross)
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- YOTV0809C (Red outline)

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ENCLOSURE 3

CCTV PROJECT YOTV0809C

PALOS VERDES ESTATES

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

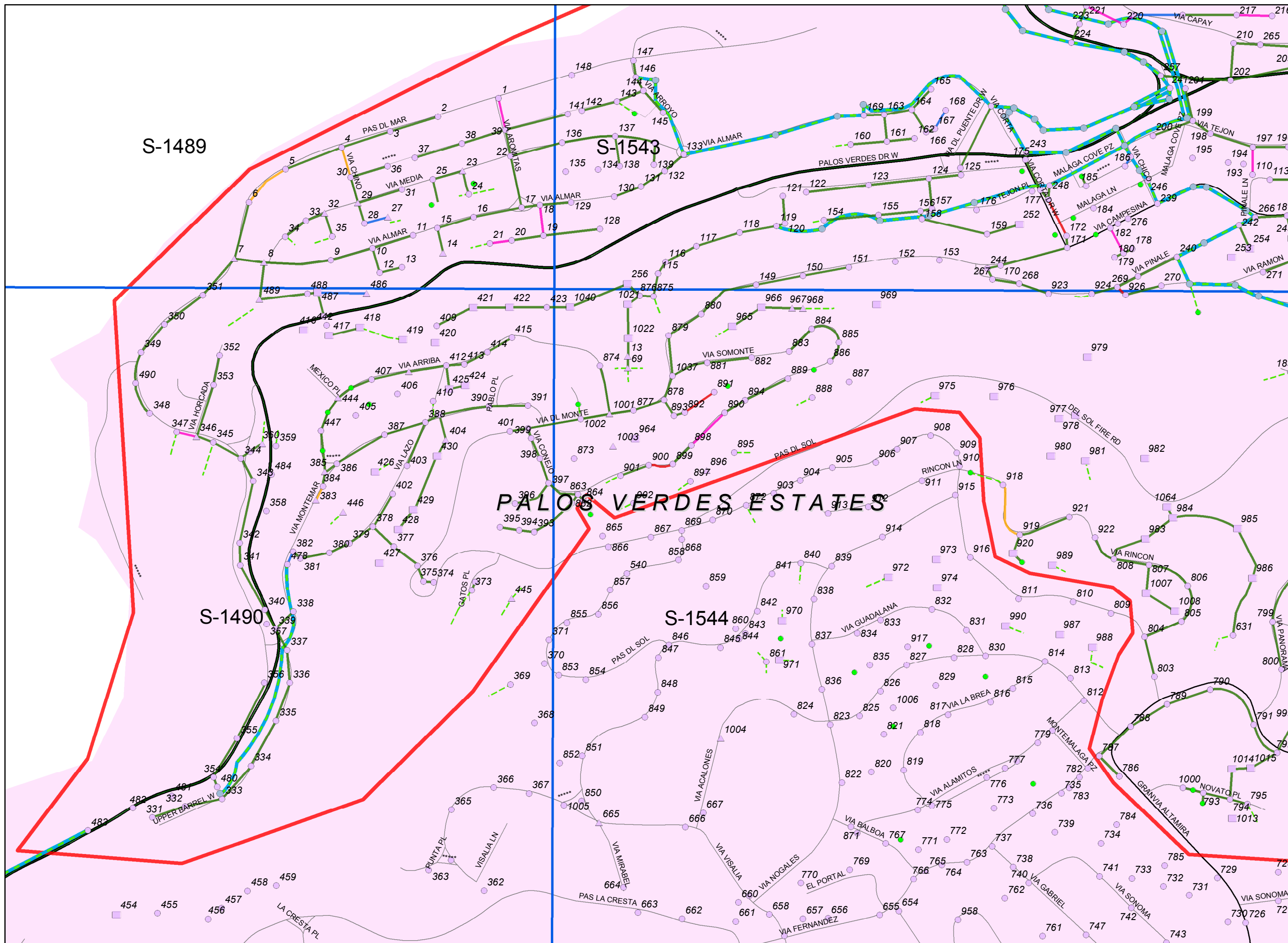
- Other (Circle with cross)
- Manhole Type
 - Standard (Purple circle)
 - DROP (Purple triangle)
 - Shallow (Purple square)
 - Trap (Purple diamond)
 - Siphon (Purple circle with cross)
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FEBRUARY 2011



ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

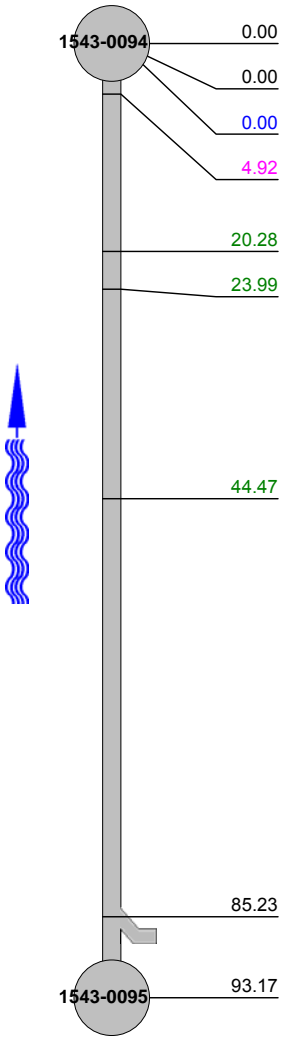
Date: 20090202	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 63	PSR: 77646
Total Pipe Length: 56	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/02/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1543

Street: VIA NAVAJO PL	Flow Control: N Not Controlled	Start MH: 1543-0094
City: PVE	Year Renewed	End MH: 1543-0095
Location Code: C Light Highway	Tape/Media ☐	pipe length: 93.17 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 56
Drain. Area: 0094/1543-0095/1543	Lining Method:
	Category:

Remark:: **A THE FLOW**

1:225	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1543-0095		63	
	0.00	Water Level, 5 ☐ of cross sectional area			
	0.00	Water Mark, 5 ☐ of cross sectional area			M 2
	4.92	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:00:46	64, b	S 4
	20.28	Roots Fine Joint, from 02 to 05 o'clock, within 8 inch: YES	00:01:42	66, b	M 1
	23.99	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:01:58	68, b	M 1
	44.47	Roots Fine Joint, from 02 to 05 o'clock, within 8 inch: YES	00:02:52	70, b	M 1
	85.23	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:27	72	
	93.17	Upstream Manhole, Survey Ends 1543-0094	00:04:56	73	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2113	4	5	9	4	1.25	1.8



Inspection report

Date: 20090305	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 809	PSR: 80846
Total Pipe Length: 178	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 03/05/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1489

Street: ALLEY	Flow Control: N Not Controlled	Start MH: 1489-0019
City: PVE	Year Renewed	End MH: 1489-0018
Location Code: D Easement/Right of Way	Tape/Media ☐	pipe length: 174.93 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 178
Drain. Area: 0018/1489-0019/1489	Lining Method:
	Category:

Remark:: **None**

1:400	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1489-0019		3	
	0.00	Water Level, 5 ☐ of cross sectional area			
	0.00	Water Mark, 5 ☐ of cross sectional area			M 2
	12.44	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:02:55	4, b	S 2
	28.30	Roots Fine Joint, from 11 to 03 o'clock, within 8 inch: YES	00:03:46	6, b	M 1
	75.67	Fracture Multiple, from 02 to 11 o'clock, within 8 inch: YES	00:06:21	8, b	S 4
	80.09	Roots Fine Joint, from 09 to 03 o'clock, within 8 inch: YES	00:06:47	10, b	M 1
	149.84	Roots Fine Joint, from 02 to 04 o'clock, within 8 inch: YES	00:09:21	12, b	M 1
	174.93	Downstream Manhole, Survey Ends 1489-0018	00:10:43	14	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2113	6	5	11	3	1.25	1.83



Inspection report

Date: 20090302	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 658	PSR: 77560
Total Pipe Length: 222	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 03/02/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1543

Street: VIA CORTA	Flow Control: N Not Controlled	Start MH: 1543-C0
City: PVE	Year Renewed	End MH: 1543-0177
Location Code: C Light Highway	Tape/Media ☐	pipe length: 105.98 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 10/10
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 222
Drain. Area: 0177/1543-C0/1543	Lining Method:
	Category:

Remark:: **BLKD BY ROOTS NO REVERSE GOES TO CO**

1:250	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1543-0177		14	
	0.00	Water Level, 5 ☐ of cross sectional area			
	0.00	Water Mark, 5 ☐ of cross sectional area			M 2
	1.91	Fracture Multiple, from 10 to 03 o'clock, within 8 inch: YES	00:00:50	15, b	S 4
	6.22	Fracture Circumferential, from 10 to 02 o'clock, within 8 inch: YES	00:01:38	17, b	S 2
	9.03	Fracture Circumferential, from 09 to 03 o'clock, within 8 inch: YES	00:02:07	19, b	S 2
	11.34	Fracture Multiple, from 12 to 04 o'clock, within 8 inch: YES	00:02:22	21, b	S 4
	17.86	Crack Multiple, from 07 to 10 o'clock, within 8 inch: YES	00:02:42	23, b	S 3
	20.98 S1	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES, start	00:03:05	25, b	S 4
	88.62	Roots Medium Joint, from 11 to 02 o'clock, 15 ☐, within 8 inch: YES	00:05:46	27, b	M 3
	93.64	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:06:08	29	
	93.64	Roots Ball Joint, from 07 to 11 o'clock, 40 ☐, within 8 inch: YES	00:06:20	30, b	M 4
	96.35 S2	Roots Medium Barrell, from 01 to 09 o'clock, 40 ☐, within 8 inch: YES, start	00:06:39	32	M 4
	105.98 F1	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES, end	00:08:51	33	S 4
	105.98 F2	Roots Medium Barrell, from 01 to 09 o'clock, 40 ☐, within 8 inch: YES, end	00:08:57	34	M 4
	105.98	General Observation, within 8 inch: YES, Remark: NO REVERSE GOES TO CLEANOUT	00:09:01		
	105.98	Survey Abandoned, Remark: CAM BLKD BY ROOTS	00:09:08	35	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4B31	4331	83	17	100	3.77	3.4	3.7



Inspection report

Date: 20090218	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 569	PSR: 77520
Total Pipe Length: 275	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/18/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1543

Street: VIA ANITA	Flow Control: N Not Controlled	Start MH: 1543-0251
City: PVE	Year Renewed	End MH: 1543-0263
Location Code: C Light Highway	Tape/Media ☐	pipe length: 74.59 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 275
Drain. Area: 0251/1543-0263/1543	Lining Method:
	Category:

Remark:: **MH#251A NOT ON MAP**

1:175	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0251		58	
	0.00	Water Level, 5 ☐ of cross sectional area			
	0.00	Water Mark, 5 of cross sectional area			M 2
	13.95	S1 Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, start	00:01:19	59, b	M 1
	24.70	Fracture Multiple, from 10 to 02 o'clock, within 8 inch: YES	00:01:49	61, b	S 4
	56.12	F1 Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, end	00:02:59		M 1
	66.66	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:03:20	63	
	74.59	Downstream Manhole, Survey Ends 1543-0251A NOT ON MAP	00:03:49	64	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2118	4	10	14	4	1.11	1.4



Inspection report

Date: 20090218	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 566	PSR: 77509
Total Pipe Length: 71	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/18/2009	Pre-Cleaned: J Jetting	Map Grid # 1543

Street: 0	Flow Control: N Not Controlled	Start MH: 1543-0230
City: PVE	Year Renewed	End MH: 1543-0251
Location Code: C Light Highway	Tape/Media #	pipe length: 135.43 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 71
Drain. Area: 0230/1543-0251/1543	Lining Method:
	Category:

Remark: **Roots**

1:325	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1543-0251		65	
	0.00	Water Level, 5 % of cross sectional area			
	0.00	Water Mark, 5 % of cross sectional area			M 2
	45.78	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:02:36	66	
	53.11	Roots Fine Joint, from 07 to 11 o'clock, within 8 inch: YES	00:02:58	67, b	M 1
	66.06	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:03:34	69, b	M 1
	111.24	Fracture Multiple, from 08 to 02 o'clock, within 8 inch: YES	00:05:10	71, b	S 4
	123.28	Roots Ball Barrell, from 03 to 09 o'clock, 10 % , within 8 inch: YES	00:05:43	73, b	M 5
	135.43	Upstream Manhole, Survey Ends 1543-0230	00:07:50	75	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	5121	4	9	13	4	2.25	2.6



Inspection report

Date: 20090218	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 565	PSR: 77508
Total Pipe Length: 154	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/18/2009	Pre-Cleaned: J Jetting	Map Grid # 1543

Street: 0	Flow Control: N Not Controlled	Start MH: 1543-0229
City: PVE	Year Renewed:	End MH: 1543-0262
Location Code: D Easement/Right of Way	Tape/Media #:	pipe length: 151.39 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 154
Drain. Area: 0229/1543-0262/1543	Lining Method:
	Category:

Remark: **A THE FLOW**

1:350	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1543-0262		40	
	0.00	Water Level, 5 % of cross sectional area			
	0.00	Water Mark, 5 % of cross sectional area			M 2
	46.28	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:02:06	41	
	127.70	Fracture Multiple, from 08 to 11 o'clock, within 8 inch: YES	00:04:23	42, b	S 4
	151.39	Upstream Manhole, Survey Ends 1543-0229	00:05:17	44	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2100	4	2	6	4	2	3



Inspection report

Date: 20090218	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 559	PSR: 77520
Total Pipe Length:	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/18/2009	Pre-Cleaned: J Jetting	Map Grid ☐

Street: VIA ANITA	Flow Control: N Not Controlled	Start MH: 1543-0251A
City: PVE	Year Renewed	End MH: 1543-0263
Location Code: C Light Highway	Tape/Media ☐	pipe length: 47.19 ft

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

Remark:: **MH 1543-0251A NOT ON MAP**

1:125	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0251A		108	
	0.00	Water Level, 5 ☐ of cross sectional area			
	0.00	Water Mark, 5 of cross sectional area			M 2
	11.55	Roots Fine Joint, from 08 to 11 o'clock, within 8 inch: YES	00:02:11	109	M 1
	27.11	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:02:42	110	
	32.63	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:03:02	111, b	S 4
	47.19	Downstream Manhole, Survey Ends 1543-0263	00:03:52	113, b	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2111	4	3	7	4	1.5	2.33



Inspection report

Date: 20090227	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 555	PSR: 77500
Total Pipe Length: 250	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/25/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1543

Street: 0	Flow Control: N Not Controlled	Start MH: 1543-0220
City: PVE	Year Renewed	End MH: 1543-0221
Location Code: D Easement/Right of Way	Tape/Media ☐	pipe length: 245.48 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 250
Drain. Area: 0220/1543-0221/1543	Lining Method:
	Category:

Remark:: **None**

1:550	position	observation	MPEG	photo	grade
	1543-0220	Upstream Manhole, Survey Begins 1543-0220		1	
	0.00	Water Level, 5 ☐ of cross sectional area			
	0.00	Water Mark, 5 ☐ of cross sectional area			M 2
	0.00				
	126.76	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:59	2	
	134.68	Fracture Multiple, from 11 to 07 o'clock, within 8 inch: YES	00:08:37	3, b	S 4
	187.47	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:01	5	
	245.48	Downstream Manhole, Survey Ends 1543-0221	00:13:43	6	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2100	4	2	6	4	2	3



Inspection report

Date: 20090213	P.O. <input type="checkbox"/> Y0TV0809C	Weather: 1 Dry	Surveyed By: R.RUIZ	section number: 504	PSR: 80484
Total Pipe Length: 150	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/13/2009	Pre-Cleaned: J Jetting	Map Grid <input type="checkbox"/> 1490

Street: PASEO DEL MAR	Flow Control: N Not Controlled	Start MH: 1490-0346
City: PVE	Year Renewed	End MH: 1490-0347
Location Code: C Light Highway	Tape/Media <input type="checkbox"/>	pipe length: 141.2 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 150
Drain. Area: 0346/1490-0347/1490	Lining Method:
	Category:

Remark:: **NONE**

1:325	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, 1490-0346 Survey Begins	00:00:12	745□1a	
	0.00	Water Level, 5 □ of cross sectional area	00:00:33		
	0.00	Water Mark, 5 □ of cross sectional area	00:00:35		M 2
	33.72	Tap Factory Made, at 12 o'clock, 4", within 8 inch: NO	00:02:03	22	
	33.72	Roots Ball Connection, at 12 o'clock, 90 □, within 8 inch: NO	00:02:10	23	M 4
	41.88	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:02:39	24	
	131.48	Tap Factory Made, at 02 o'clock, 4", within 8 inch: NO	00:07:02	25	
	134.40	Fracture Multiple, from 09 to 02 o'clock, within 8 inch: YES	00:07:45	26, b	S 4
	141.20	Downstream Manhole, 1490-0347 Survey Ends	00:08:42	28	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	4121	4	6	10	4	3	3.33



Inspection report

Date: 20090212	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: R.RUIZ	section number: 484	PSR: 80850
Total Pipe Length: 125	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/12/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1489

Street: 0	Flow Control: N Not Controlled	Start MH: 1489-0021
City: PVE	Year Renewed	End MH: 1489-0020
Location Code: D Easement/Right of Way	Tape/Media ☐	pipe length: 122.35 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 125
Drain. Area: 0020/1489-0021/1489	Lining Method:
	Category:

Remark:: **Against the flow**

1:275	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, 1489-0020 Survey Begins	00:00:02	159	
	0.00	Water Level, 5 of cross sectional area	00:00:14		
	0.00	Water Mark, 15 ☐ of cross sectional area	00:00:16		M 2
	8.26	Tap Factory Made, at 10 o'clock, 4", within 8 inch: NO	00:00:47	160	
	84.84	Tap Factory Made, at 10 o'clock, 4", within 8 inch: NO, Remark: Roots	00:03:14	161	
	117.20	Tap Factory Made, at 10 o'clock, 4", within 8 inch: NO	00:04:11	162	
	118.27	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:04:35	163, b	S 4
	122.35	Upstream Manhole, 1489-0021 Survey Ends	00:05:13	165	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2100	4	2	6	4	2	3



Inspection report

Date: 20090210	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: R.RUIZ	section number: 474	PSR: 80942
Total Pipe Length: 190	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/10/2009	Pre-Cleaned: J Jetting	Map Grid # 1489

Street: VIA AROMITAS	Flow Control: N Not Controlled	Start MH: 1489-0039
City: PVE	Year Renewed	End MH: 1489-0001
Location Code: H Alley	Tape/Media #	pipe length: 179.68 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: 0001/1489-0039/1489	Lining Method:
	Category:

Remark:: **NONE**

1:400	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, 1489-0039 Survey Begins	00:00:04	45	
	2.43	Water Level, 5 % of cross sectional area	00:00:21		
	2.43	Water Mark, 10 % of cross sectional area	00:00:22		M 2
	21.48	Roots Fine Joint, at 10 o'clock, within 8 inch: YES	00:01:02	46, b	M 1
	31.87	Fracture Multiple, from 10 to 02 o'clock, within 8 inch: YES	00:02:06	48, b	S 4
	59.67	Tap Factory Made, at 02 o'clock, 4", within 8 inch: NO	00:03:31	50	
	98.83	Tap Factory Made, at 10 o'clock, 4", within 8 inch: NO	00:05:23	51	
	133.81	Roots Fine Joint, at 12 o'clock, within 8 inch: YES	00:06:47	52, b	M 1
	179.68	Downstream Manhole, 1489-0001 Survey Ends	00:09:12	54	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2112	4	4	8	4	1.33	2



Inspection report

Date: 20090226	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 408	PSR: 76576
Total Pipe Length: 230	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/26/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1544

Street: 0	Flow Control: N Not Controlled	Start MH: 1544-0891
City: PVE	Year Renewed	End MH: 1544-0892
Location Code: D Easement/Right of Way	Tape/Media ☐	pipe length: 150.24 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 230
Drain. Area: 0891/1544-0892/1544	Lining Method:
	Category:

Remark:: **MSA CAMERA BLKD/CAN NOT LOCATE US MH NO**

1:350	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1544-0892		23	
	0.00	Water Level, 5 ☐ of cross sectional area			
	0.00	Water Mark, 5 ☐ of cross sectional area			M 2
	34.62	Roots Fine Connection, from 02 to 04 o'clock, within 8 inch: YES	00:02:35	24	M 1
	34.62	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:02:40	25	
	108.59	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:16	26	
	140.91	Hole Void Visible, from 01 to 03 o'clock, within 8 inch: YES	00:08:48	27, b	S 5
	150.24	Survey Abandoned, Remark: CAM BLKD CAN NOT LOCATE US MH	00:15:01	29	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2111	5	3	8	5	1.5	2.67



Inspection report

Date: 20090219	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 372	PSR: 77564
Total Pipe Length: 157	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/19/2009	Pre-Cleaned: J Jetting	Map Grid # 1543

Street: 0	Flow Control: N Not Controlled	Start MH: 1543-0179
City: PVE	Year Renewed	End MH: 1543-0181
Location Code: D Easement/Right of Way	Tape/Media #	pipe length: 130.45 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 157
Drain. Area: 0179/1543-0181/1543	Lining Method:
	Category:

Remark: **AGAINST FLOW**

1:300	position	observation	MPEG	photo	grade
	1543-0179	Downstream Manhole, Survey Begins 1543-0181		7	
	0.00	Water Level, 5' of cross sectional area			
	0.00	Water Mark, 5' of cross sectional area			M 2
	0.00				
	73.01	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:04:42	8, b	M 1
	79.04	Roots Fine Joint, from 03 to 08 o'clock, within 8 inch: YES	00:05:05	10, b	M 1
	82.75	Roots Fine Joint, from 08 to 02 o'clock, within 8 inch: YES	00:05:24	12, b	M 1
	103.24	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:06:10	14, b	M 1
	127.94	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:07:20	16, b	S 4
	130.45	Upstream Manhole, Survey Ends 1543-0179	00:08:36	18	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2114	4	6	10	4	1.2	1.67



Inspection report

Date: 20090206	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 294	PSR: 76583
Total Pipe Length: 120	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/06/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1544

Street: VIA SOMONTE	Flow Control: N Not Controlled	Start MH: 1544-0900
City: PVE	Year Renewed	End MH: 1544-0899
Location Code: C Light Highway	Tape/Media ☐	pipe length: 144.8 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 120
Drain. Area: 0899/1544-0900/1544	Lining Method:
	Category:

Remark:: **TVed upstream**

1:325	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1544-0899	00:00:00	18	
	0.00	Water Level, 5 ☐ of cross sectional area	00:00:00		
	0.00	Water Mark, 5 ☐ of cross sectional area	00:00:00		M 2
	30.80	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:02:01	19	
	55.70	Material Change, PVC Polyvinyl Chloride	00:03:22	20, b	
	57.80	Material Change, VCP Vitrified Clay Pipe	00:03:40	22	
	124.90	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:06:25	23	
	128.40	Hole Void Visible, from 12 to 01 o'clock, within 8 inch: YES	00:06:50	24, b	S 5
	144.80	Upstream Manhole, Survey Ends 1544-0900	00:08:03	26	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2100	5	2	7	5	2	3.5



Inspection report

Date: 20090206	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 292	PSR: 76575
Total Pipe Length: 195	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/06/2009	Pre-Cleaned: J Jetting	Map Grid # 1544

Street: VIA SOMONTE	Flow Control: N Not Controlled	Start MH: 1544-0898
City: PVE	Year Renewed:	End MH: 1544-0890
Location Code: C Light Highway	Tape/Media #:	pipe length: 251.6 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: 0890/1544-0898/1544	Lining Method:
	Category:

Remark:: **None**

1:575	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0898	00:00:00	6	
	0.00	Water Level, 5' of cross sectional area	00:00:00		
	0.00	Water Mark, 5' of cross sectional area	00:00:00		M 2
	8.10	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:01:09	7	
	37.40	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:23	8	
	99.40	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:58	9	
	161.10	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:23	10	
	224.20	Fracture Multiple, from 12 to 02 o'clock, within 8 inch: NO	00:10:22	11, b	S 4
	251.60	Downstream Manhole, Survey Ends 1544-0890	00:12:44		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2100	4	2	6	4	2	3



Inspection report

Date: 20090204	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 276	PSR: 77553
Total Pipe Length: 160	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/04/2009	Pre-Cleaned: J Jetting	Map Grid # 1543

Street: VIA CORTA	Flow Control: N Not Controlled	Start MH: 1543-0172
City: PVE	Year Renewed:	End MH: 1543-0173
Location Code: C Light Highway	Tape/Media #:	pipe length: 294.5 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 160
Drain. Area: 0172/1543-0173/1543	Lining Method:
	Category:

Remark:: **10" PIPE**

1:675	position	observation	MPEG	photo	grade
	1543-0172 — 0.00	Upstream Manhole, Survey Begins 1543-0172	00:00:00	27	
	0.00	Water Level, 10 % of cross sectional area	00:00:00		
	0.00	Water Mark, 10 % of cross sectional area	00:00:00		M 2
	26.20	Hole Void Visible, from 10 to 12 o'clock, within 8 inch: YES	00:03:10	28, b	S 5
	80.70	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:05:21	30	
	142.30	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:07:30	31	
	196.30	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:36	32	
	250.30	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:11:30	33	
	1543-0173 — 294.50	Downstream Manhole, Survey Ends 1543-0173	00:13:38	34	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2100	5	2	7	5	2	3.5



Inspection report

Date: 20090203	P.O. <input type="checkbox"/> Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 269	PSR: 765435
Total Pipe Length: 64	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/03/2009	Pre-Cleaned: J Jetting	Map Grid <input type="checkbox"/> 1544

Street: VIA PINALE	Flow Control: N Not Controlled	Start MH: 1544-0926
City: PVE	Year Renewed	End MH: 1543-0269
Location Code: C Light Highway	Tape/Media <input type="checkbox"/>	pipe length: 33.8 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 64
Drain. Area: 0926/1544-0269/1543	Lining Method:
	Category:

Remark:: **TVed upstream**

1:100	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1543-0269	00:00:00	46	
	0.00	Water Level, 5 <input type="checkbox"/> of cross sectional area	00:00:00		
	0.00	Water Mark, 5 <input type="checkbox"/> of cross sectional area	00:00:00		M 2
	15.00	Hole Soil Visible, from 12 to 02 o'clock, within 8 inch: YES	00:02:20	47, b	S 5
	33.80	Upstream Manhole, Survey Ends 1544-0926	00:03:52	49	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2100	5	2	7	5	2	3.5



Inspection report

Date: 20090213	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 214	PSR: 77499
Total Pipe Length: 77	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/13/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1543

Street: 0	Flow Control: N Not Controlled	Start MH: 1543-0219
City: PVE	Year Renewed	End MH: 1543-0220
Location Code: D Easement/Right of Way	Tape/Media ☐	pipe length: 78.01 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 77
Drain. Area: 0219/1543-0220/1543	Lining Method:
	Category:

Remark:: **None**

1:175	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0219		85	
	0.00	Water Level, 5 ☐ of cross sectional area			
	0.00	Water Mark, 5 ☐ of cross sectional area			M 2
	10.84	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:00:43	86, b	M 1
	43.27	Fracture Multiple, from 09 to 12 o'clock, within 8 inch: YES	00:01:43	88, b	S 4
	72.79	Joint Separated Large	00:02:44	90, b	S 2
	78.01	Downstream Manhole, Survey Ends 1543-0220	00:03:33	92	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2111	6	3	9	3	1.5	2.25



Inspection report

Date: 20090213	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 211	PSR: 77496
Total Pipe Length: 197	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/13/2009	Pre-Cleaned: J Jetting	Map Grid # 1543

Street: 0	Flow Control: N Not Controlled	Start MH: 1543-0216
City: PVE	Year Renewed	End MH: 1543-0217
Location Code: D Easement/Right of Way	Tape/Media #	pipe length: 171.47 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 197
Drain. Area: 0216/1543-0217/1543	Lining Method:
	Category:

Remark: **A THE FLOW**

1:400	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1543-0217		71	
	0.00	Water Level, 5' of cross sectional area			
	0.00	Water Mark, 5' of cross sectional area			M 2
	8.03	Fracture Multiple, from 02 to 06 o'clock, within 8 inch: YES	00:00:48	72, b	S 4
	41.36	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:02:08	74	
	55.62	Roots Fine Joint, from 02 to 05 o'clock, within 8 inch: YES	00:03:11	75, b	M 1
	64.15	Roots Medium Joint, from 06 to 11 o'clock, 10", within 8 inch: YES	00:03:43	77, b	M 3
	65.26	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:15	79	
	76.10	Roots Medium Joint, from 03 to 09 o'clock, 10", within 8 inch: YES	00:06:47	80, b	M 3
	79.91	Roots Medium Joint, from 12 to 12 o'clock, 10", within 8 inch: YES, start	00:08:13	82	M 3
	109.33	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:14:17	83	
	161.43	Roots Medium Joint, from 12 to 12 o'clock, 10", within 8 inch: YES, end	00:25:10		M 3
	164.95	Roots Medium Joint, from 12 to 12 o'clock, 10", within 8 inch: YES, end	00:25:28		M 3
	171.47	Upstream Manhole, Survey Ends 1543-0216	00:25:51	84	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	3B21	4	60	64	4	2.86	2.91



Inspection report

Date: 20090212	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 182	PSR: 77506
Total Pipe Length: 318	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/12/2009	Pre-Cleaned: J Jetting	Map Grid # 1543

Street: VIA ANITA	Flow Control: N Not Controlled	Start MH: 1543-0227
City: PVE	Year Renewed	End MH: 1543-0228
Location Code: C Light Highway	Tape/Media #	pipe length: 328.09 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 318
Drain. Area: 0227/1543-0228/1543	Lining Method:
	Category:

Remark:: **None**

1:750	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0227		1	
	0.00	Water Level, 5' of cross sectional area			
	0.00	Water Mark, 5' of cross sectional area			M 2
	4.92	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:01:09	2, b	M 1
	26.30	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES, start	00:02:01	4, b	M 1
	34.13	Fracture Multiple, from 03 to 05 o'clock, within 8 inch: YES	00:02:39	6, b	S 4
	38.65	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:03:00	8	
	113.34	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:57	9	
	194.96	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:08:01	10	
	239.34	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:41	11	
	243.76	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES, end	00:09:54		M 1
	287.03	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:10	12	
	316.24	Fracture Multiple, from 02 to 05 o'clock, within 8 inch: YES	00:12:09	13, b	S 4
	328.09	Downstream Manhole, Survey Ends 1543-0228	00:12:47	15	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4200	211G	8	46	54	4	1.02	1.15



Inspection report

Date: 20090212	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 180	PSR: 77494
Total Pipe Length: 305	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/12/2009	Pre-Cleaned: J Jetting	Map Grid # 1543

Street: 0	Flow Control: N Not Controlled	Start MH: 1543-0213
City: PVE	Year Renewed	End MH: 1543-0212
Location Code: D Easement/Right of Way	Tape/Media #	pipe length: 299.27 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: 0212/1543-0213/1543	Lining Method:
	Category:

Remark: **A THE FLOW**

1:675	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1543-0212		51	
	0.00	Water Level, 5' of cross sectional area			
	0.00	Water Mark, 5' of cross sectional area			M 2
	6.93	Roots Ball Joint, from 03 to 05 o'clock, 5' , within 8 inch: YES	00:00:40	52, b	M 4
	13.35	Roots Ball Joint, from 03 to 09 o'clock, 10' , within 8 inch: YES	00:01:04	54, b	M 4
	17.17	Roots Ball Barrell, from 03 to 09 o'clock, 10' , within 8 inch: YES	00:01:17	56, b	M 5
	27.01	Roots Ball Joint, from 07 to 10 o'clock, 10' , within 8 inch: YES	00:01:43	58, b	M 4
	46.98	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES, Remark: Roots	00:02:24	60	
	93.17	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:04:48	61	
	149.08	Roots Fine Joint, from 08 to 11 o'clock, within 8 inch: YES	00:06:23	62, b	M 1
	160.03	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:56	64	
	226.89	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:09:05	65	
	234.42	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:25	66	
	266.55	Roots Fine Joint, from 02 to 05 o'clock, within 8 inch: YES	00:10:50	67, b	M 1
	274.38	Broken Void Visible, from 12 to 12 o'clock, within 8 inch: YES	00:11:18	69, b	S 5
	286.42	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:24	71	
	293.25	Roots Medium Joint, from 12 to 12 o'clock, 5', within 8 inch: YES	00:12:43	72, b	M 3
	299.27	Upstream Manhole, Survey Ends 1543-0213	00:13:27	74	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	5143	5	24	29	5	3	3.22



Inspection report

Date: 20090205	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 166	PSR: 77609
Total Pipe Length: 108	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/05/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1543

Street: PINALE LN	Flow Control: N Not Controlled	Start MH: 1543-0110
City: PVE	Year Renewed	End MH: 1543-0197
Location Code: C Light Highway	Tape/Media ☐	pipe length: 138.8 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 108
Drain. Area: 0110/1543-0197/1543	Lining Method:
	Category:

Remark:: **None**

1:325	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0110	00:00:00	19	
	0.00	Water Level, 5 ☐ of cross sectional area	00:00:00		
	0.00	Water Mark, 5 ☐ of cross sectional area	00:00:00		M 2
	39.50	Roots Fine Joint, from 09 to 04 o'clock, within 8 inch: YES	00:02:50	20, b	M 1
	59.10	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:35	22	
	135.30	Fracture Multiple, from 04 to 09 o'clock, within 8 inch: YES	00:06:22	23, b	S 4
	138.80	Downstream Manhole, Survey Ends 1543-0197	00:07:33	25	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2111	4	3	7	4	1.5	2.33



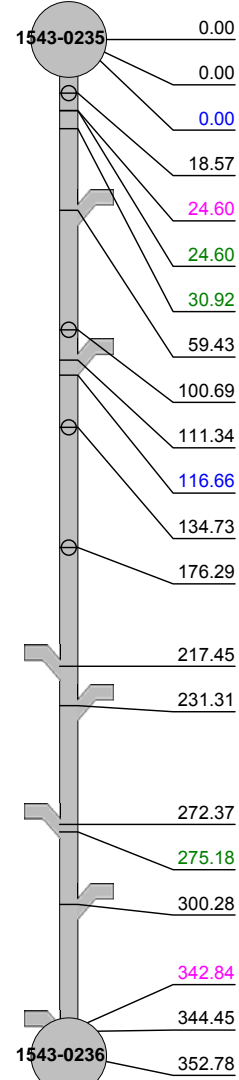
Inspection report

Date: 20090211	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 163	PSR: 77512
Total Pipe Length: 386	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/11/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1543

Street: VIA LA SELVA	Flow Control: N Not Controlled	Start MH: 1543-0235
City: PVE	Year Renewed	End MH: 1543-0236
Location Code: C Light Highway	Tape/Media ☐	pipe length: 352.78 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 386
Drain. Area: 0235/1543-0236/1543	Lining Method:
	Category:

Remark:: **None**

1:800	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0235		34	
	0.00	Water Level, 5 ☐ of cross sectional area			
	0.00	Water Mark, 5 ☐ of cross sectional area			M 2
	18.57	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES, Remark: Roots	00:01:20	35	
	24.60	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:01:38	36, b	S 4
	24.60	Roots Fine Joint, from 10 to 03 o'clock, within 8 inch: YES	00:01:55	38, b	M 1
	30.92 S1	Roots Fine Joint, from 09 to 03 o'clock, within 8 inch: YES, start	00:02:14	40, b	M 1
	59.43	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:03:08	42	
	100.69	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES, Remark: Roots	00:04:19	43	
	111.34	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:04:45	44	
	116.66	Fracture Circumferential, from 03 to 09 o'clock, within 8 inch: YES	00:04:59	45, b	S 2
	134.73	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES, Remark: Roots	00:05:47	47	
	176.29	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES, Remark: Roots	00:07:11	48	
	217.45	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:08:40	49	
	231.31	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:15	50	
	272.37	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:29	51	
	275.18 F1	Roots Fine Joint, from 09 to 03 o'clock, within 8 inch: YES, end	00:10:39		M 1
	300.28	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:22	52	
	342.84	Roots Ball Joint, from 02 to 04 o'clock, 5 ☐, within 8 inch: YES	00:12:42	53, b	M 4
	344.45	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:59	55	
	352.78	Downstream Manhole, Survey Ends 1543-0236	00:13:29	56	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	4121	6	56	62	3	1.08	1.15



Inspection report

Date: 20090211	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 153	PSR: 77714
Total Pipe Length: 538	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/11/2009	Pre-Cleaned: J Jetting	Map Grid # 1543

Street: VIA ALAMEDA	Flow Control: N Not Controlled	Start MH: 1543-0003
City: PVE	Year Renewed	End MH: 1543-0004
Location Code: C Light Highway	Tape/Media #	pipe length: 362.22 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 538
Drain. Area: 0003/1543-0004/1543	Lining Method:
	Category:

Remark:: **None**

1:825	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0003		100	
	0.00	Water Level, 5' of cross sectional area			
	0.00	Water Mark, 5' of cross sectional area			M 2
	21.69	Material Change, PVC Polyvinyl Chloride	00:02:15	101, b	
	40.76	Material Change, VCP Vitrified Clay Pipe	00:03:03	103, b	
	129.61	Broken, from 05 to 12 o'clock, within 8 inch: YES	00:05:59	105, b	S 5
	130.71	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:06:27	107	
	142.86	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:56	108	
	147.88	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:14	109	
	163.04	Roots Fine Joint, from 02 to 04 o'clock, within 8 inch: YES	00:07:42	110	M 1
	226.09	Broken, from 02 to 05 o'clock, within 8 inch: YES	00:09:23	111, b	S 4
	226.59	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:42	113	
	276.48	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:11:12	114, b	M 1
	306.40	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:12:28	116, b	M 1
	354.69	Fracture Spiral, from 06 to 12 o'clock, within 8 inch: YES	00:14:07	118, b	S 3
	362.22	Downstream Manhole, Survey Ends 1543-0004	00:14:52	120	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2113	12	5	17	4	1.25	2.43



Inspection report

Date: 20090210	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 139	PSR: 77722
Total Pipe Length: 330	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/10/2009	Pre-Cleaned: J Jetting	Map Grid # 1543

Street: PALOS VERDES DR N	Flow Control: N Not Controlled	Start MH: 1543-0009
City: PVE	Year Renewed	End MH: 1543-0007
Location Code: A Main Highway - Urban	Tape/Media #	pipe length: 336.02 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: 0007/1543-0009/1543	Lining Method:
	Category:

Remark:: **None**

1:750	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0009		67, b	
	0.00	Water Level, 10 % of cross sectional area			
	0.00	Water Mark, 15 of cross sectional area			M 2
	4.92	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:00:50	69	
	33.73	Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES	00:01:43	70	
	84.83	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:20	71	
	103.61	Fracture Circumferential, from 01 to 06 o'clock, within 8 inch: YES	00:03:56	72, b	S 2
	129.51	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:47	74	
	154.10	Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES	00:05:35	75	
	204.60	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:52	76	
	235.72	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:43	77	
	237.33	Fracture Circumferential, from 06 to 10 o'clock, within 8 inch: YES	00:07:52	78, b	S 2
	264.84	Fracture Circumferential, from 07 to 12 o'clock, within 8 inch: YES	00:08:43	80, b	S 2
	285.92	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:09:25	82	
	305.80	Fracture Circumferential, from 09 to 01 o'clock, within 8 inch: YES	00:10:01	83, b	S 2
	309.41	Fracture Circumferential, from 12 to 05 o'clock, within 8 inch: YES	00:10:19	85, b	S 2
	321.96	Roots Ball Joint, from 09 to 02 o'clock, 5 %, within 8 inch: YES	00:10:50	87, b	M 4
	329.49	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:11:12	89, b	S 4
	332.50	Fracture Circumferential, from 02 to 10 o'clock, within 8 inch: YES	00:11:30	91, b	S 2
	336.02	Downstream Manhole, Survey Ends 1543-0007	00:11:46	93	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4126	4121	16	6	22	2.29	3	2.44



Inspection report

Date: 20090209	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 133	PSR: 76829
Total Pipe Length: 267	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/09/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1544

Street: 0	Flow Control: N Not Controlled	Start MH: 1544-0611
City: PVE	Year Renewed	End MH: 1544-0612
Location Code: D Easement/Right of Way	Tape/Media ☐	pipe length: 267.85 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 267
Drain. Area: 0611/1544-0612/1544	Lining Method:
	Category:

Remark:: **A THE FLOW**

1:600	position	observation	MPEG	photo	grade
	1544-0611	Downstream Manhole, Survey Begins 1544-0612		34	
	0.00	Water Level, 5 ☐ of cross sectional area			
	0.00	Water Mark, 5 ☐ of cross sectional area			M 2
	0.00				
	263.73	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:08:40	35, b	S 4
	1544-0612	Upstream Manhole, Survey Ends 1544-0611	00:09:13	37	
	267.85				

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2100	4	2	6	4	2	3



Inspection report

Date: 20090206	P.O.☐ Y0TV0809C	Weather: 2 Heavy rain	Surveyed By: B. FUGATE	section number: 123	PSR: 77674
Total Pipe Length: 383	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/06/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1543

Street: PASEO DEL CAMPO	Flow Control: N Not Controlled	Start MH: 1543-0068
City: PVE	Year Renewed	End MH: 1543-0067
Location Code: C Light Highway	Tape/Media ☐	pipe length: 350.17 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 383
Drain. Area: 0067/1543-0068/1543	Lining Method:
	Category:

Remark:: **None**

1:800	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0068		15	
	0.00	Water Level, 5 ☐ of cross sectional area			
	0.00	Water Mark, 5 ☐ of cross sectional area			M 2
	8.83	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:05	16	
	104.11	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:26	17	
	127.20	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:06:10	18	
	206.31	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:08:25	19	
	259.02	Fracture Multiple, from 07 to 11 o'clock, within 8 inch: YES	00:10:24	20, b	S 4
	285.52	Roots Ball Joint, from 08 to 10 o'clock, 5 ☐, within 8 inch: YES	00:11:30	22, b	M 4
	297.87	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:10	24	
	302.39	Roots Ball Joint, from 02 to 05 o'clock, 5 ☐, within 8 inch: YES	00:12:26	25, b	M 4
	309.41	Roots Ball Joint, from 02 to 04 o'clock, 5 ☐, within 8 inch: YES	00:12:47	27, b	M 4
	313.63	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:13:04	29	
	350.17	Downstream Manhole, Survey Ends 1543-0067	00:14:37	30	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	4321	4	14	18	4	3.5	3.6



Inspection report

Date: 20090206	P.O. <input type="checkbox"/> Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 119	PSR: 77669
Total Pipe Length: 205	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/06/2009	Pre-Cleaned: J Jetting	Map Grid <input type="checkbox"/> 1543

Street: PASEO DEL CAMPO	Flow Control: N Not Controlled	Start MH: 1543-0063
City: PVE	Year Renewed	End MH: 1543-0062
Location Code: C Light Highway	Tape/Media <input type="checkbox"/>	pipe length: 177.7 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: 0062/1543-0063/1543	Lining Method:
	Category:

Remark:: **None**

1:400	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0063		49	
	0.00	Water Level, 5 <input type="checkbox"/> of cross sectional area			
	0.00	Water Mark, 10 <input type="checkbox"/> of cross sectional area			M 2
	99.19	Roots Fine Joint, from 08 to 11 o'clock, within 8 inch: YES	00:04:08	50, b	M 1
	116.96	Fracture Multiple, from 08 to 02 o'clock, within 8 inch: YES	00:04:54	52, b	S 4
	133.52	Roots Fine Joint, from 09 to 11 o'clock, within 8 inch: YES	00:05:40	54, b	M 1
	177.70	Downstream Manhole, Survey Ends 1543-0062	00:07:18	56	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2112	4	4	8	4	1.33	2



Inspection report

Date: 20090205	P.O. # Y0TV0809C	Weather: 2 Heavy rain	Surveyed By: B. FUGATE	section number: 109	PSR: 77659
Total Pipe Length: 160	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/05/2009	Pre-Cleaned: J Jetting	Map Grid # 1543

Street: 0	Flow Control: N Not Controlled	Start MH: 1543-0053
City: PVE	Year Renewed:	End MH: 1543-0059
Location Code: D Easement/Right of Way	Tape/Media #:	pipe length: 166.65 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 160
Drain. Area: 0053/1543-0059/1543	Lining Method:
	Category:

Remark:: **None**

1:375	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0053		113	
	0.00	Water Level, 5 % of cross sectional area			
	0.00	Water Mark, 5 % of cross sectional area			M 2
	12.45	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:03	114	
	31.32	Roots Fine Joint, from 12 to 04 o'clock, within 8 inch: YES	00:01:46	115, b	M 1
	82.62	Fracture Multiple, from 05 to 12 o'clock, within 8 inch: YES	00:03:26	117, b	S 4
	166.65	Downstream Manhole, Survey Ends 1543-0059	00:06:13	119	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2111	4	3	7	4	1.5	2.33



Inspection report

Date: 20090205	P.O.☐ Y0TV0809C	Weather: 2 Heavy rain	Surveyed By: B. FUGATE	section number: 107	PSR: 77657
Total Pipe Length: 276	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/05/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1543

Street: 0	Flow Control: N Not Controlled	Start MH: 1543-0051
City: PVE	Year Renewed	End MH: 1543-0052
Location Code: D Easement/Right of Way	Tape/Media ☐	pipe length: 285.12 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 276
Drain. Area: 0051/1543-0052/1543	Lining Method:
	Category:

Remark:: **A THE FLOW**

1:650	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1543-0052		98	
	0.00	Water Level, 5 ☐ of cross sectional area			
	<u>0.00</u>	Water Mark, 5 ☐ of cross sectional area			M 2
	18.47	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:05	99	
	120.77	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:06:15	100	
	185.83	Fracture Circumferential, from 02 to 05 o'clock, within 8 inch: YES	00:08:14	101, b	S 2
	200.19	Fracture Circumferential, from 07 to 11 o'clock, within 8 inch: YES	00:09:10	103, b	S 2
	230.91	Fracture Circumferential, from 02 to 06 o'clock, within 8 inch: YES	00:10:28	105, b	S 2
	240.64	Fracture Multiple, from 03 to 10 o'clock, within 8 inch: YES	00:11:19	107, b	S 4
	260.92	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:12:14	109	
	277.79	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:08	110	
	280.10	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:24	111	
	285.12	Upstream Manhole, Survey Ends 1543-0051	00:13:47	112	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4123	2100	10	2	12	2.5	2	2.4



Inspection report

Date: 20090205	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 106	PSR: 77653
Total Pipe Length: 303	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/05/2009	Pre-Cleaned: J Jetting	Map Grid # 1543

Street: 0	Flow Control: N Not Controlled	Start MH: 1543-0047
City: PVE	Year Renewed	End MH: 1543-0048
Location Code: D Easement/Right of Way	Tape/Media #	pipe length: 305.1 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: 0047/1543-0048/1543	Lining Method:
	Category:

Remark:: **None**

1:700	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0047		76	
	0.00	Water Level, 5' of cross sectional area			
	0.00	Water Mark, 10' of cross sectional area			M 2
	56.52	Fracture Circumferential, from 06 to 09 o'clock, within 8 inch: YES	00:02:32	77, b	S 2
	64.65	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:59	79	
	67.77	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:03:11	80	
	73.29	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:03:31	81, b	S 4
	109.03	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:48	83	
	184.02	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:35	84	
	227.49	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:09:07	85	
	252.09	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:38	86	
	271.36	Fracture Multiple, from 10 to 02 o'clock, within 8 inch: YES	00:11:20	87, b	S 4
	305.10	Downstream Manhole, Survey Ends 1543-0048	00:12:38	89	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4221	2100	10	2	12	3.33	2	3



Inspection report

Date: 20090205	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 106	PSR: 77653
Total Pipe Length: 303	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/05/2009	Pre-Cleaned: J Jetting	Map Grid # 1543

Street: 0	Flow Control: N Not Controlled	Start MH: 1543-0047
City: PVE	Year Renewed	End MH: 1543-0048
Location Code: D Easement/Right of Way	Tape/Media #	pipe length: 305.1 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: 0047/1543-0048/1543	Lining Method:
	Category:

Remark:: **None**

1:700	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0047		76	
	0.00	Water Level, 5 % of cross sectional area			
	0.00	Water Mark, 10 % of cross sectional area			M 2
	56.52	Fracture Circumferential, from 06 to 09 o'clock, within 8 inch: YES	00:02:32	77, b	S 2
	64.65	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:59	79	
	67.77	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:03:11	80	
	73.29	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:03:31	81, b	S 4
	109.03	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:48	83	
	184.02	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:35	84	
	227.49	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:09:07	85	
252.09	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:38	86		
271.36	Fracture Multiple, from 10 to 02 o'clock, within 8 inch: YES	00:11:20	87, b	S 4	
305.10	Downstream Manhole, Survey Ends 1543-0048	00:12:38	89		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4221	2100	10	2	12	3.33	2	3



Inspection report

Date: 20090210	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 139	PSR: 77722
Total Pipe Length: 330	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/10/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1543

Street: PALOS VERDES DR N	Flow Control: N Not Controlled	Start MH: 1543-0009
City: PVE	Year Renewed	End MH: 1543-0007
Location Code: A Main Highway - Urban	Tape/Media ☐	pipe length: 336.02 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: 0007/1543-0009/1543	Lining Method:
	Category:

Remark:: **None**

1:750	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0009		67, b	
	0.00	Water Level, 10 ☐ of cross sectional area			
	0.00	Water Mark, 15 of cross sectional area			M 2
	4.92	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:00:50	69	
	33.73	Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES	00:01:43	70	
	84.83	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:20	71	
	103.61	Fracture Circumferential, from 01 to 06 o'clock, within 8 inch: YES	00:03:56	72, b	S 2
	129.51	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:47	74	
	154.10	Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES	00:05:35	75	
	204.60	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:52	76	
	235.72	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:43	77	
	237.33	Fracture Circumferential, from 06 to 10 o'clock, within 8 inch: YES	00:07:52	78, b	S 2
	264.84	Fracture Circumferential, from 07 to 12 o'clock, within 8 inch: YES	00:08:43	80, b	S 2
	285.92	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:09:25	82	
	305.80	Fracture Circumferential, from 09 to 01 o'clock, within 8 inch: YES	00:10:01	83, b	S 2
	309.41	Fracture Circumferential, from 12 to 05 o'clock, within 8 inch: YES	00:10:19	85, b	S 2
	321.96	Roots Ball Joint, from 09 to 02 o'clock, 5 ☐, within 8 inch: YES	00:10:50	87, b	M 4
	329.49	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:11:12	89, b	S 4
	332.50	Fracture Circumferential, from 02 to 10 o'clock, within 8 inch: YES	00:11:30	91, b	S 2
	336.02	Downstream Manhole, Survey Ends 1543-0007	00:11:46	93	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4126	4121	16	6	22	2.29	3	2.44



Inspection report

Date: 20090205	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 166	PSR: 77609
Total Pipe Length: 108	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/05/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1543

Street: PINALE LN	Flow Control: N Not Controlled	Start MH: 1543-0110
City: PVE	Year Renewed	End MH: 1543-0197
Location Code: C Light Highway	Tape/Media ☐	pipe length: 138.8 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 108
Drain. Area: 0110/1543-0197/1543	Lining Method:
	Category:

Remark:: **None**

1:325	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0110	00:00:00	19	
	0.00	Water Level, 5 ☐ of cross sectional area	00:00:00		
	0.00	Water Mark, 5 ☐ of cross sectional area	00:00:00		M 2
	39.50	Roots Fine Joint, from 09 to 04 o'clock, within 8 inch: YES	00:02:50	20, b	M 1
	59.10	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:35	22	
	135.30	Fracture Multiple, from 04 to 09 o'clock, within 8 inch: YES	00:06:22	23, b	S 4
	138.80	Downstream Manhole, Survey Ends 1543-0197	00:07:33	25	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2111	4	3	7	4	1.5	2.33



Inspection report

Date: 20090209	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 133	PSR: 76829
Total Pipe Length: 267	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/09/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1544

Street: 0	Flow Control: N Not Controlled	Start MH: 1544-0611
City: PVE	Year Renewed	End MH: 1544-0612
Location Code: D Easement/Right of Way	Tape/Media ☐	pipe length: 267.85 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 267
Drain. Area: 0611/1544-0612/1544	Lining Method:
	Category:

Remark:: **A THE FLOW**

1:600	position	observation	MPEG	photo	grade
		<p>Downstream Manhole, Survey Begins 1544-0612</p> <p>Water Level, 5 ☐ of cross sectional area</p> <p>Water Mark, 5 ☐ of cross sectional area</p>			
		M 2			
		Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:08:40	35, b	S 4
		Upstream Manhole, Survey Ends 1544-0611	00:09:13	37	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2100	4	2	6	4	2	3



Inspection report

Date: 20090206	P.O.☐ Y0TV0809C	Weather: 2 Heavy rain	Surveyed By: B. FUGATE	section number: 123	PSR: 77674
Total Pipe Length: 383	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/06/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1543

Street: PASEO DEL CAMPO	Flow Control: N Not Controlled	Start MH: 1543-0068
City: PVE	Year Renewed	End MH: 1543-0067
Location Code: C Light Highway	Tape/Media ☐	pipe length: 350.17 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 383
Drain. Area: 0067/1543-0068/1543	Lining Method:
	Category:

Remark:: **None**

1:800	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0068		15	
	0.00	Water Level, 5 ☐ of cross sectional area			
	0.00	Water Mark, 5 ☐ of cross sectional area			M 2
	8.83	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:05	16	
	104.11	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:26	17	
	127.20	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:06:10	18	
	206.31	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:08:25	19	
	259.02	Fracture Multiple, from 07 to 11 o'clock, within 8 inch: YES	00:10:24	20, b	S 4
	285.52	Roots Ball Joint, from 08 to 10 o'clock, 5 ☐, within 8 inch: YES	00:11:30	22, b	M 4
	297.87	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:10	24	
	302.39	Roots Ball Joint, from 02 to 05 o'clock, 5 ☐, within 8 inch: YES	00:12:26	25, b	M 4
	309.41	Roots Ball Joint, from 02 to 04 o'clock, 5 ☐, within 8 inch: YES	00:12:47	27, b	M 4
	313.63	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:13:04	29	
	350.17	Downstream Manhole, Survey Ends 1543-0067	00:14:37	30	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	4321	4	14	18	4	3.5	3.6



Inspection report

Date: 20090206	P.O. <input type="checkbox"/> Y0TV0809C	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 119	PSR: 77669
Total Pipe Length: 205	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/06/2009	Pre-Cleaned: J Jetting	Map Grid <input type="checkbox"/> 1543

Street: PASEO DEL CAMPO	Flow Control: N Not Controlled	Start MH: 1543-0063
City: PVE	Year Renewed	End MH: 1543-0062
Location Code: C Light Highway	Tape/Media <input type="checkbox"/>	pipe length: 177.7 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: 0062/1543-0063/1543	Lining Method:
	Category:

Remark:: **None**

1:400	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0063			49
	0.00	Water Level, 5 <input type="checkbox"/> of cross sectional area			
	0.00	Water Mark, 10 <input type="checkbox"/> of cross sectional area			M 2
	99.19	Roots Fine Joint, from 08 to 11 o'clock, within 8 inch: YES	00:04:08	50, b	M 1
	116.96	Fracture Multiple, from 08 to 02 o'clock, within 8 inch: YES	00:04:54	52, b	S 4
	133.52	Roots Fine Joint, from 09 to 11 o'clock, within 8 inch: YES	00:05:40	54, b	M 1
	177.70	Downstream Manhole, Survey Ends 1543-0062	00:07:18	56	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2112	4	4	8	4	1.33	2



Inspection report

Date: 20090205	P.O.☐ Y0TV0809C	Weather: 2 Heavy rain	Surveyed By: B. FUGATE	section number: 109	PSR: 77659
Total Pipe Length: 160	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/05/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 1543

Street: 0	Flow Control: N Not Controlled	Start MH: 1543-0053
City: PVE	Year Renewed	End MH: 1543-0059
Location Code: D Easement/Right of Way	Tape/Media ☐	pipe length: 166.65 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 160
Drain. Area: 0053/1543-0059/1543	Lining Method:
	Category:

Remark:: **None**

1:375	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1543-0053		113	
	0.00	Water Level, 5 ☐ of cross sectional area			
	0.00	Water Mark, 5 ☐ of cross sectional area			M 2
	12.45	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:03	114	
	31.32	Roots Fine Joint, from 12 to 04 o'clock, within 8 inch: YES	00:01:46	115, b	M 1
	82.62	Fracture Multiple, from 05 to 12 o'clock, within 8 inch: YES	00:03:26	117, b	S 4
	166.65	Downstream Manhole, Survey Ends 1543-0059	00:06:13	119	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2111	4	3	7	4	1.5	2.33



Inspection report

Date: 20090205	P.O. # Y0TV0809C	Weather: 2 Heavy rain	Surveyed By: B. FUGATE	section number: 107	PSR: 77657
Total Pipe Length: 276	Survey Customer: LACDPW	System Owner: PVE	Clean Date: 02/05/2009	Pre-Cleaned: J Jetting	Map Grid # 1543

Street: 0	Flow Control: N Not Controlled	Start MH: 1543-0051
City: PVE	Year Renewed	End MH: 1543-0052
Location Code: D Easement/Right of Way	Tape/Media #	pipe length: 285.12 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 276
Drain. Area: 0051/1543-0052/1543	Lining Method:
	Category:

Remark: **A THE FLOW**

1:650	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1543-0052		98	
	0.00	Water Level, 5 % of cross sectional area			
	0.00	Water Mark, 5 % of cross sectional area			M 2
	18.47	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:05	99	
	120.77	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:06:15	100	
	185.83	Fracture Circumferential, from 02 to 05 o'clock, within 8 inch: YES	00:08:14	101, b	S 2
	200.19	Fracture Circumferential, from 07 to 11 o'clock, within 8 inch: YES	00:09:10	103, b	S 2
	230.91	Fracture Circumferential, from 02 to 06 o'clock, within 8 inch: YES	00:10:28	105, b	S 2
	240.64	Fracture Multiple, from 03 to 10 o'clock, within 8 inch: YES	00:11:19	107, b	S 4
	260.92	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:12:14	109	
	277.79	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:08	110	
	280.10	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:24	111	
	285.12	Upstream Manhole, Survey Ends 1543-0051	00:13:47	112	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4123	2100	10	2	12	2.5	2	2.4

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

PROJECT NAME:	Y0TV0809D	PROJECT MGR:	Eric Liu
PROJECT DATE:	07/08/2009	CONTACT NO:	(626) 300-3369
SUP. DISTRICT(s):	4	MAP PAGE(S):	1597 □1598
Report By:	Hanna Kebede	Report Date:	06/07/2011

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 26,507 feet or approximately 9.4 percent of the City of Palos Verdes Estates 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 Y0TV0809D included sewer lines located in the Cities of Carson, Palmdale, Palos Verdes Estates and Rolling Hills Estates and Unincorporated County of Los Angeles area. Enclosed for your reference is an overview map of the project area within 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 40.9 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 59.1 percent of the inspected pipe segments within the City of Palos Verdes Estates 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 separate analysis was conducted to determine the presence of high water levels and infiltration in the inspected lines. Our analysis did not reveal any lines impacted with capacity and/or infiltration issues

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	9,934	37.5	60
2: Good	899	3.4	3
3: Fair	2,782	10.5	11
4: Poor	12,638	47.6	60
5: Immediate Attention	254	1.0	1
TOTAL	26,507	100.0	135

STRUCTURAL REPORT

Our inspection revealed that approximately 95.0 percent of the inspected pipe segments within the City of Palos Verdes Estates were free of severe structural defects. However, the remaining 5.0 percent of the inspected pipe segments had a PACP structural grade of 4 and 5 as indicated in the Quick Structural Rating Table shown below. The segments have been placed on a priority list based on the severity and the need for action. For Items 1 through 6 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. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. Copies of the actual inspection report for these 6 segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	24,159	91.1	124
2: Good	1,031	3.9	5
3: Fair	0	0	0
4: Poor	601	2.3	3
5: Immediate Attention	716	2.7	3
TOTAL	26,507	100.0	135

CCTV INSPECTION PROJECTS

The Sewer Condition Assessment Program has performed the following closed-circuit television (CCTV) inspection of the sewer lines within the City of Palos Verdes Estates.

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2006-2007	Y0TV0607D	169,162	60.2	COMPLETE
2008-2009	Y0TV0809C	85,279	30.4	COMPLETE
2008-2009	Y0TV0809D	26,507	9.4	COMPLETE
TOTAL		280,948	100.0	

ENCLOSURE 1:

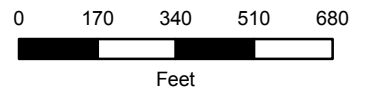
Project Overview Map

OVERVIEW MAP

PALOS VERDES ESTATES

CCTV PROJECT Y0TV0809D

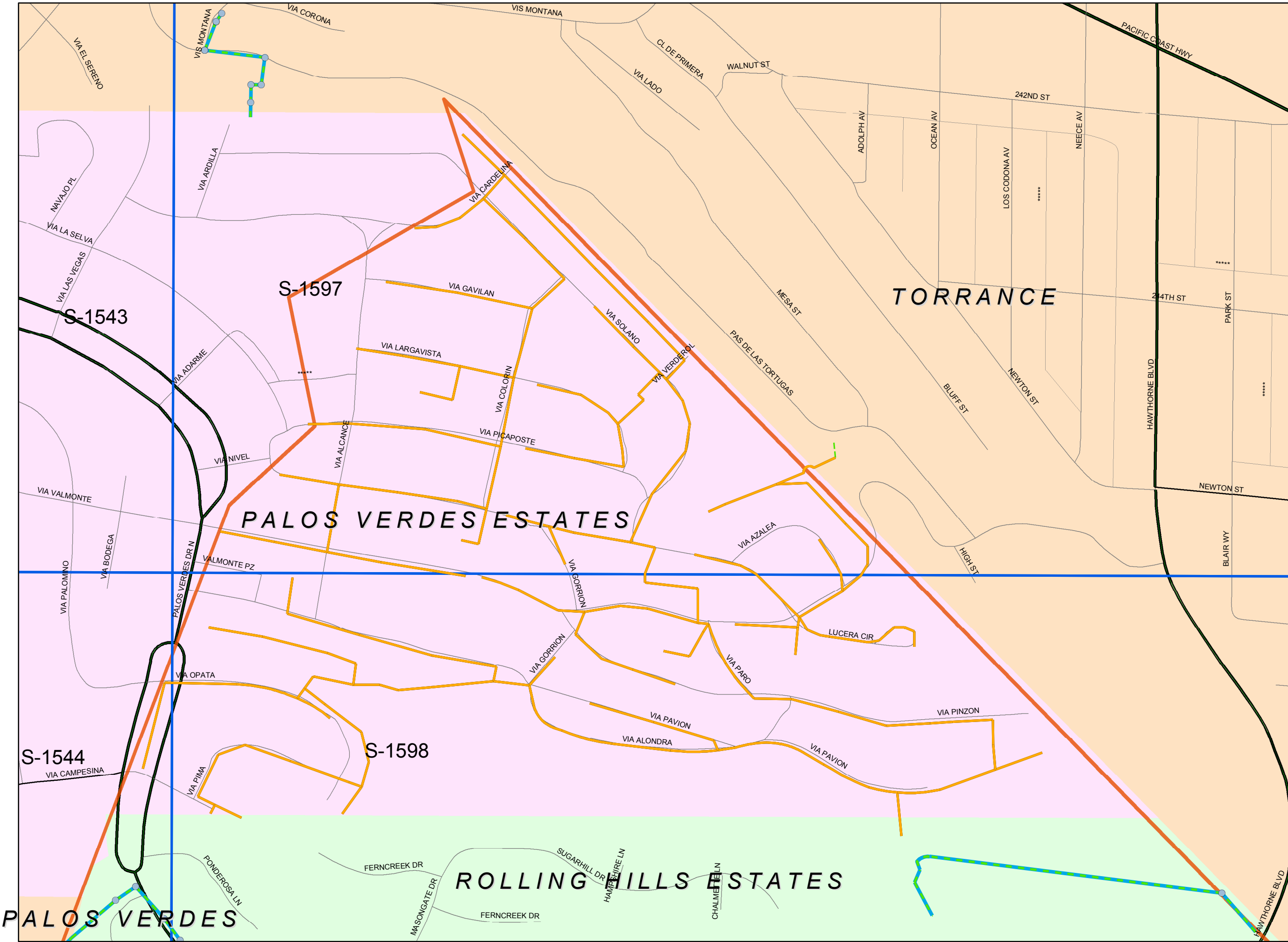
Cities of Carson, Palmdale,
Palos Verdes Estates,
Rolling Hill Estates &
County Unincorporated



Legend

- SMD Sanitary Sewers
- SMD Treatment Plants
- Maintained by Others:**
 - Trunk Sewerlines
 - Non SMD Sanitary Sewers
 - Non SMD Maintained MH
- SMD Operations Maps
- CCTV Project Area**
 - Y0TV0809D

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ENCLOSURE 2:

- Quick Maintenance Rating Report
Priority List
- Sample Lateral Notice
- Quick Maintenance Rating Map

ENCLOSURE 2
 QUICK MAINTENANCE REPORT PRIORITY LIST
 CITY OF PALOS VERDES ESTATES (Y0TV0809D)
 as of 07/08/09

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken	Date of Completion
1	5142	1598-0411	1598-0410	EASEMENT BY VIA PAVION	Deposit; roots; lateral roots; intruding liner	Hydrojet	11/08/2010
2	4531	1597-0021	1597-0022	VIA GAVILAN	Root ball lateral	Lateral notice will be sent to property owner	
3	4C31	1597-0061	1597-0062	EASEMENT BY VIA VERDEROL	Roots; lateral roots	Hydrojet	11/05/2010
4	493D	1597-0095	1597-0064	EASEMENT BY VIA CARDELINA	Roots; camera underwater; lateral root	Hydrojet	11/08/2010
5	4400	1597-0086	1597-0046	VIA SOLANO	Roots; lateral roots	Hydrojet	11/08/2010
6	4331	1597-0001	1597-0002	VIA VALMONTE	Root ball lateral	Lateral notice will be sent to property owner	
7	4331	1597-0001	1598-0481	VIA VALMONTE	Root ball lateral	Lateral notice will be sent to property owner	
8	4331	1597-0005	1597-0006	VIA NIVEL	Root ball lateral	Lateral notice will be sent to property owner	
9	4331	1597-0062	1597-0063	EASEMENT BY VIA SOLANO	Root ball lateral	Lateral notice will be sent to property owner	
10	4316	1598-0440	1598-0441	VIA VALMONTE	Root ball lateral	Lateral notice will be sent to property owner	
11	4315	1598-0456	1598-0455	VIA PINZON	Root ball lateral	Lateral notice will be sent to property owner	
12	4316	1598-0460	1598-0471	VIA NIVEL	Deposit settled; lateral roots	Hydrojet	11/08/2010
13	4311	1597-0045	1597-0092	VIA SOLANO	Roots; lateral roots	Hydrojet	11/05/2010
14	4231	1597-0012	1597-0013	VIA PICAPOSTE	Root ball lateral	Lateral notice will be sent to property owner	
15	4231	1598-0419	1598-0420	VIA PAVION	Root ball lateral	Lateral notice will be sent to property owner	
16	4231	1598-0420	1598-0421	VIA PAVION	Root ball lateral	Lateral notice will be sent to property owner	
17	4231	1597-0026	1597-0095	VIA CARDELINA	Deposit attached grease; roots	Hydrojet	11/05/2010
18	4231	1597-0089	1597-0090	HAWTHORNE AV	Roots; lateral roots	Hydrojet	11/08/2010
19	4221	1598-0443	1598-0444	VIA PINZON	Root ball lateral	Lateral notice will be sent to property owner	
20	421B	1597-0029	1597-0028	VIA CARDELINA	Root ball lateral	Lateral notice will be sent to property owner	
21	421A	1597-0081	1597-0082	EASEMENT BY VIA VALMONTE	Roots; lateral roots	Hydrojet	11/08/2010
22	4218	1598-0455	1598-0454	VIA PINZON	Root ball lateral	Lateral notice will be sent to property owner	
23	4218	1598-0412	1598-0411	ALLEY BY VIA PAVION	Roots; lateral roots	Hydrojet	11/08/2010
24	4214	1597-0063	1597-0095	EASEMENT BY VIA SOLANO	Root ball lateral	Lateral notice will be sent to property owner	
25	4212	1598-0418	1598-0417	ALLEY BY VIA PAVION	Root ball lateral	Lateral notice will be sent to property owner	
26	4211	1597-0060	1597-0061	EASEMENT BY VIA VERDEROL	Roots; lateral roots	Hydrojet	11/05/2010
27	4133	1598-0423	1598-0468	VIA GORRION	Roots; lateral roots	Hydrojet	11/08/2010
28	4132	1597-0013	1597-0014	VIA PICAPOSTE	Root ball lateral	Lateral notice will be sent to property owner	
29	4132	1597-0049	1597-0050	VIA PICAPOSTE	Root ball lateral	Lateral notice will be sent to property owner	
30	4132	1598-0426	1598-0469	VIA ALONDRA	Root ball lateral	Lateral notice will be sent to property owner	
31	4131	1597-0016	1597-0017	VIA LARGAVISTA	Root medium lateral	Lateral notice will be sent to property owner	
32	4131	1597-0039	1597-0091	VIA NIVEL	Root ball lateral	Lateral notice will be sent to property owner	

ENCLOSURE 2
 QUICK MAINTENANCE REPORT PRIORITY LIST
 CITY OF PALOS VERDES ESTATES (Y0TV0809D)
 as of 07/08/09

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken	Date of Completion
33	4131	1598-0404	1598-0406	VIA OPATA	Root medium lateral	Lateral notice will be sent to property owner	
34	4131	1598-0418	1598-0419	VIA PAVION	Root ball lateral	Lateral notice will be sent to property owner	
35	4131	1598-0431	1598-0432	VIA PAVION	Root ball lateral	Lateral notice will be sent to property owner	
36	4131	1598-0435	1598-0434	VIA PINZON	Root ball lateral	Lateral notice will be sent to property owner	
37	4131	1597-0006	1597-0007	VIA NIVEL	Deposit grease; roots; lateral roots	Hydrojet	11/05/2010
38	4131	1597-0008	1597-0011	VIA NIVEL	Deposit grease; lateral roots	Hydrojet	11/05/2010
39	4131	1597-0015	1597-0020	VIA COLORIN	Small roots; lateral roots	Hydrojet	11/05/2010
40	4128	1598-0432	1598-0475	VIA PAVION	Root ball lateral	Lateral notice will be sent to property owner	
41	4128	1597-0082	1597-0083	EASEMENT BY VIA VALMONTE	Roots; lateral roots	Hydrojet	11/08/2010
42	4121	1597-0057	1597-0056	EASEMENT BY VIA SOLANO	Root ball lateral	Lateral notice will be sent to property owner	
43	411B	1598-0405	1544-0630	VIA OPATA	Deposit grease; lateral root	Hydrojet	11/08/2010
44	411F	1544-0630	1544-0629	PALOS VERSES DR N	Root ball lateral	Lateral notice will be sent to property owner	
45	411B	1598-0473	1598-0472	VIA PINZON	Root ball lateral	Lateral notice will be sent to property owner	
46	411A	1597-0019	1597-0020	VIA LARGAVISTA	Root medium lateral	Lateral notice will be sent to property owner	
47	411A	1598-0458	1598-0459	EASEMENT BY VIA LUCERA CIR	Roots in MH 459; lateral roots	Hydro jet	11/08/2010
48	4119	1598-0395	1598-0394	VIA CAMPESINA	Root ball lateral	Lateral notice will be sent to property owner	
49	4119	1598-0395	1598-0394	VIA CAMPESINA	Roots; lateral roots	Hydrojet	11/08/2010
50	4118	1597-0042	1598-0460	VIA NIVEL	Debris; lateral roots	Hydrojet	11/05/2010
51	4115	1597-0011	1597-0010	EASEMENT BY VIA COLORIN	Debris in MH 10; lateral roots	Hydrojet	11/05/2010
52	4114	1598-0413	1598-0409	EASEMENT BY VIA PAVION	Roots; lateral roots	Hydrojet	11/08/2010
53	4114	1597-0054	1597-0055	EASEMENT BY VIA LARGAVISTA	Root ball lateral	Lateral notice will be sent to property owner	
54	4114	1598-0437	1598-0438	EASEMENT BY VIA PINZON	Root ball lateral	Lateral notice will be sent to property owner	
55	4113	1597-0093	1597-0040	VIA NIVEL	Root ball lateral	Lateral notice will be sent to property owner	
56	4111	1597-0085	1597-0084	EASEMENT BY VIA NIVEL	Root ball lateral	Lateral notice will be sent to property owner	
57	4111	1598-0470	1598-0447	EASEMENT BY VIA VALMONTE	Root ball lateral	Lateral notice will be sent to property owner	
58	4100	1597-0044	1597-0091	VIA NIVEL	Root ball lateral	Lateral notice will be sent to property owner	
59	4100	1597-0083	1597-0084	EASEMENT BY VIA NIVEL	Root ball lateral	Lateral notice will be sent to property owner	
60	4100	1598-0457	1598-0459	VIA VALMONTE	Root ball lateral	Lateral notice will be sent to property owner	
61	4100	1597-0090	1597-0081	EASEMENT BY VIA VALMONTE	Roots; lateral roots	Hydrojet	11/08/2010
62	321A	1597-0048	1597-0049	VIA PICAPOSTE	Root medium lateral	Lateral notice will be sent to property owner	
63	3213	1597-0014	1597-0015	VIA PICAPOSTE	Root medium lateral	Lateral notice will be sent to property owner	

ENCLOSURE 2
 QUICK MAINTENANCE REPORT PRIORITY LIST
 CITY OF PALOS VERDES ESTATES (Y0TV0809D)
 as of 07/08/09

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken	Date of Completion
64	3200	1598-0403	1598-0407	EASEMENT BY VIA OPATA	Deposit settled	Hydrojet	11/09/2010
65	311C	1598-0397	1598-0398	VIA PIMA	Root medium lateral	Lateral notice will be sent to property owner	
66	3117	1597-0007	1597-0008	VIA NIVEL	Small roots	Hydrojet	11/08/2010
67	3115	1598-0412	1598-0413	EASEMENT BY VIA PAVION	small roots	Hydrojet	11/08/2010
68	3114	1598-0446	1598-0470	VIA VALMONTE	Root medium lateral	Lateral notice will be sent to property owner	
69	3113	1598-0394	1598-0391	VIA CAMPESINA	Small roots	Hydrojet	11/08/2010
70	3111	1597-0003	1597-0004	VIA VALMONTE	Root medium lateral	Lateral notice will be sent to property owner	
71	3100	1597-0044	1598-0448	EASEMENT BY VIA NIVEL	Root medium lateral	Lateral notice will be sent to property owner	
72	3100	1598-0442	1598-0446	VIA VALMONTE	Root medium lateral	Lateral notice will be sent to property owner	

ENCLOSURE 2

CCTV PROJECT Y0TV0809D

PALOS VERDES ESTATES

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

- Other

Manhole Type

- Standard
- DROP
- Shallow
- Trap
- Siphon

- SMD Pump Stations

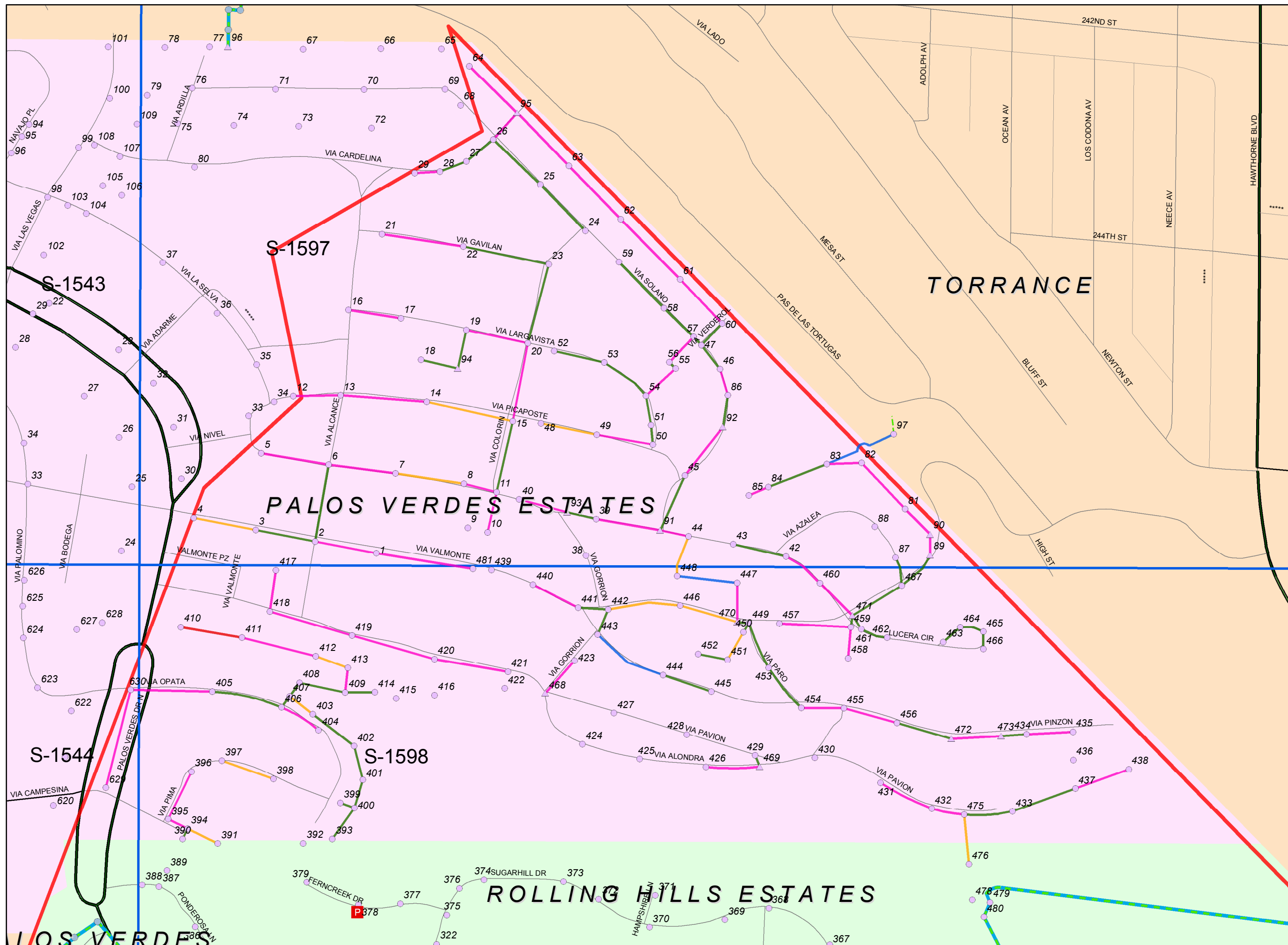
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0809D

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FEBRUARY 2011





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

May 26, 2011

IN REPLY PLEASE

REFER TO FILE:

SM-1

Glenn Jeanes
1570 Morada Place
Altadena, CA 91001

Dear Mr. Jeanes:

SEWER LATERAL ROOT INTRUSION 1570 MORADA PLACE, 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 1570 Morada Place, 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

Glenn Jeanes
May 26, 2011
Page 2

your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup.

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 fvillaluna@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

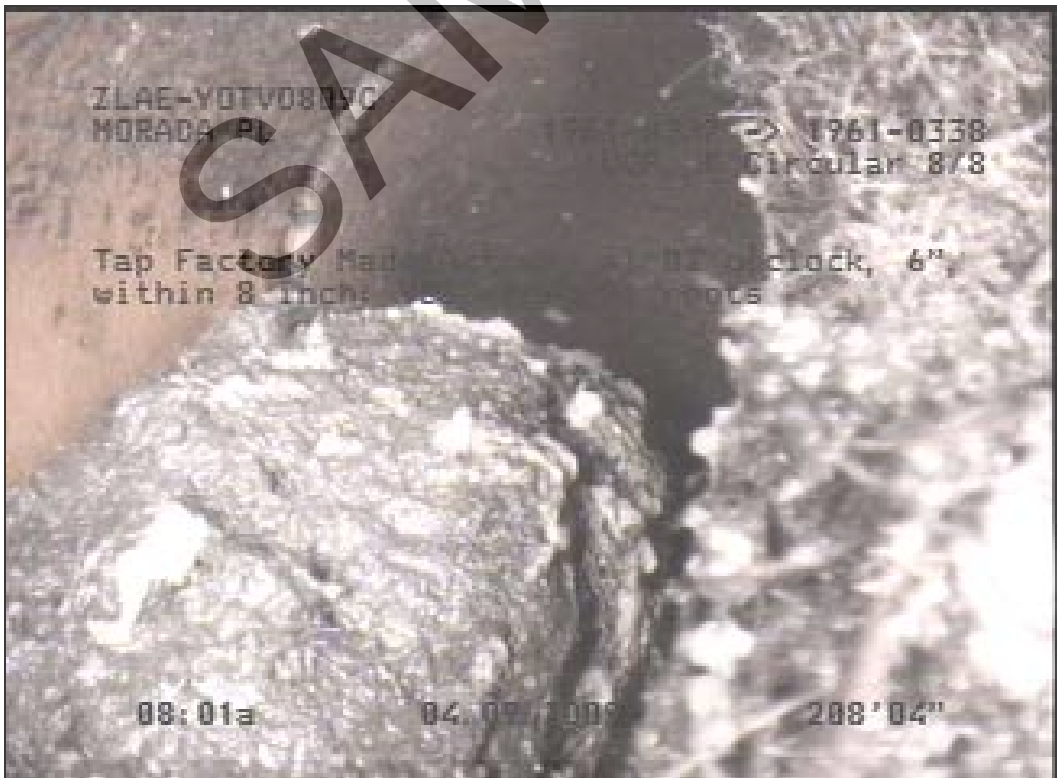
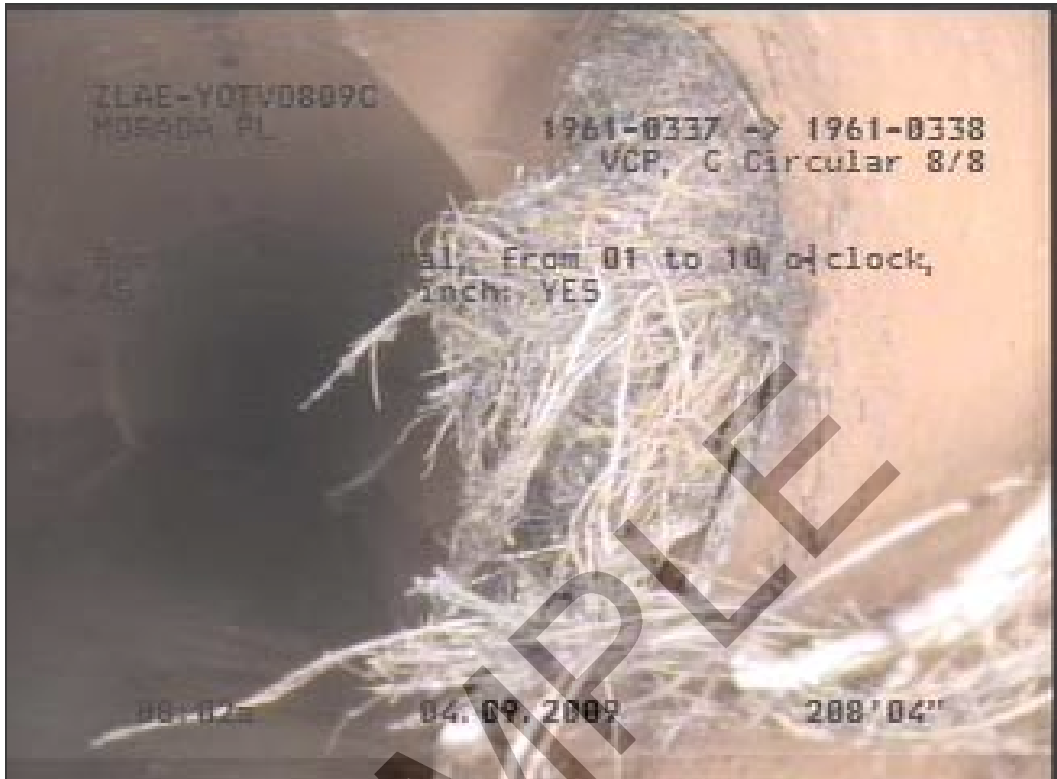
KEITH LEHTO
Assistant Deputy Director
Sewer Maintenance Division

EL:

Enc.

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

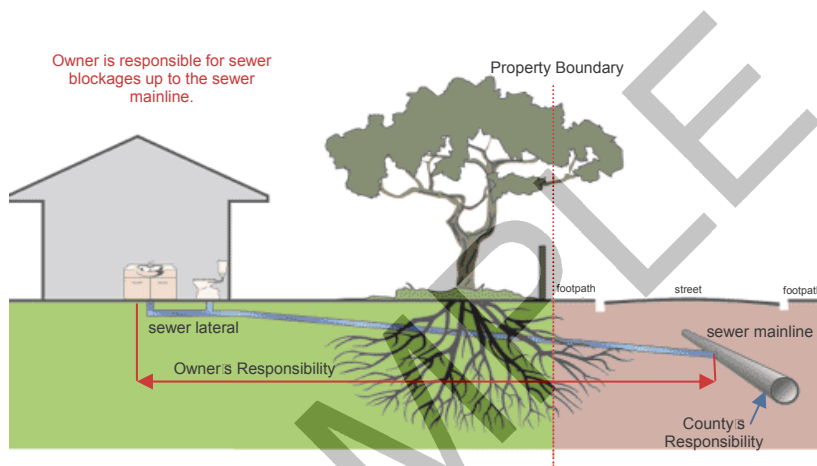
1570 MORADA PLACE
ALTADENA
Roots at Lateral Connection



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 LATERALS – AREAS OF RESPONSIBILITY



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 PALOS VERDES ESTATES (Y0TV0809D)
as of 07/08/2009

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5122	1597-0019	1597-0020	VIA LARGAVISTA	Large offset: 226'	Structural integrity in tact. No action needed.	
2	5121	1597-0083	1597-0084	EASEMENT BY AZALEA	Large offset: 252'	Structural integrity in tact. No action needed.	
3	5121	1598-0412	1598-0411	ALLEY BY PAVION	Broken: 4'	Point Repair (completed: 12/22/09)	
4	4100	1598-0412	1598-0413	EASEMENT BY PAVION	Fracture multiple: 82' - 86'	Point Repair	
5	4100	1598-0460	1598-0471	VIA NIVEL	Large offset: 223'	Point Repair	
6	4100	1597-0090	1597-0081	EASEMENT BY VIA VALMONTE	Broken: 6'	Point Repair (completed: 05/19/11)	
7	4100	1598-0443	1598-0444	VIA PINZON	Tap break-in: 88'	Structural integrity in tact. No action needed.	

ENCLOSURE 3

CCTV PROJECT Y0TV0809D

PALOS VERDES ESTATES

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

- Other

Manhole Type

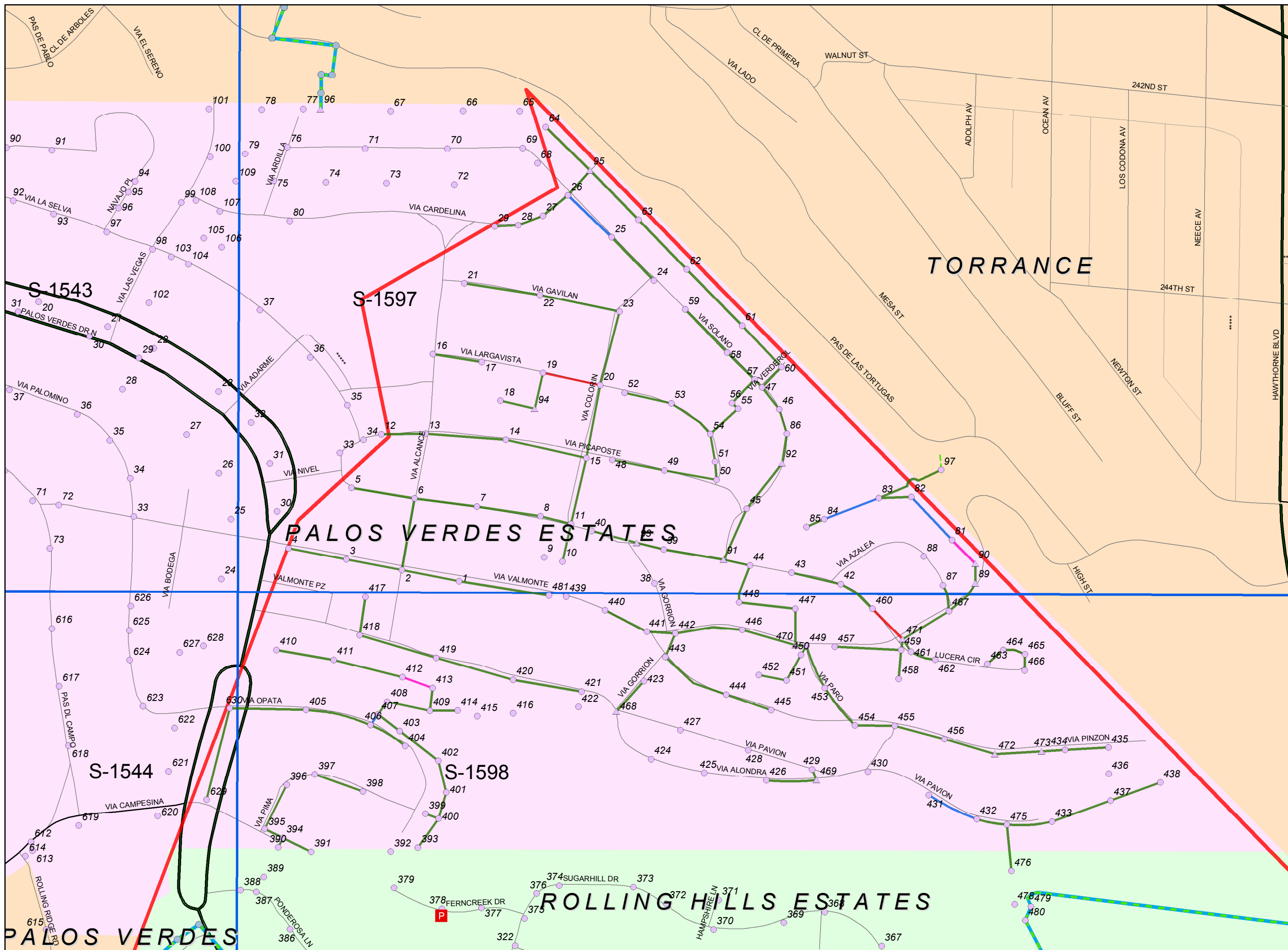
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
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FEBRUARY 2011



ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

Date: 20090409	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1328	PSR: 72731
Total Pipe Length: 258.00	Survey Customer: LACDPW	System Owner: PVE	Clean Date:	Pre-Cleaned: Jetting	Map Grid # 1597

Street: VIA LARGAVISTA	Flow Control: Not Controlled	Start MH: 1597-0019
City: PVE	Year Renewed:	End MH: 1597-0020
Location Code: Light Highway	Tape/Media # R050	pipe length: 226.8 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0019/1597-0020/1597	Lining Method:
	Category:

Remark::

1:525	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1597-0019	00:00:34	3815	
	3.10 S1	Roots Fine Joint, from 9 to 3 o'clock, within 8 inch: YES, Start	00:01:21	3816, b	
	15.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:24	3819	
	15.90	Roots Ball Lateral, at 9 o'clock, 55 #, within 8 inch: NO	00:02:40	3820, b	M 4
	21.10	Water Level, 5 #, within 8 inch: NO	00:03:11	3822	M 2
	44.80 F1	Roots Fine Joint, from 9 to 3 o'clock, within 8 inch: YES, End	00:04:00	3823, b	
	49.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:32	3825	
	49.70	Roots Fine Connection, at 9 o'clock, within 8 inch: NO	00:04:46	3826, b	M 1
	56.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:25	3828	
	61.00	Roots Fine Joint, from 10 to 3 o'clock, within 8 inch: YES	00:05:47	3829, b	
	134.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:46	3831	
	137.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:07	3832	
	222.80	Material Change, within 8 inch: NO, Remarks: To PVC	00:10:28	3833, b	
	226.80	Material Change, within 8 inch: NO, Remarks: To VCP	00:11:07	3835, b	
	226.80	Broken, from 02 to 08 o'clock, within 8 inch: YES			S 5

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	4121	7	7	14	3.5	2.33	2.8



Inspection report

Date: 20090521	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1754	PSR: 72678
Total Pipe Length: 150.00	Survey Customer: LACDPW	System Owner: PVE	Clean Date:	Pre-Cleaned: Jetting	Map Grid # 1597

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 1597-0090
City: PVE	Year Renewed:	End MH: 1597-0081
Location Code: Light Highway	Tape/Media # R079	pipe length: 156.7 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0081/1597-0090/1597	Lining Method:
	Category:

Remark::

1:350	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1597-0090	00:00:19	10970	
	5.00	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:01:39	10971	
	6.90	Fracture Multiple, from 9 to 3 o'clock, within 8 inch: YES	00:02:19	10972, b	S 4
	31.00	Water Level, 5 #, within 8 inch: NO	00:03:26	10974	
	34.10	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'	00:04:05	10975	
	103.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:36	10976	
	103.60	Roots Ball Connection, at 9 o'clock, 90 #, within 8 inch: NO	00:08:53	10977, b	M 4
	156.70	Manhole, within 8 inch: NO, Remarks: 1597-0081	00:12:52	10979	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	4100	4	4	8	4	4	4



Inspection report

Date: 20090421	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1448	PSR: 72234
Total Pipe Length: 188.00	Survey Customer: LACDPW	System Owner: PVE	Clean Date:	Pre-Cleaned: Jetting	Map Grid # 1598

Street: VIA NIVEL	Flow Control: Not Controlled	Start MH: 1598-0460
City: PVE	Year Renewed	End MH: 1598-0471
Location Code: Light Highway	Tape/Media # R058	pipe length: 223.4 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0460/1598-0471/1598	Lining Method:
	Category:

Remark::

1:500	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0460	00:00:29	6035	
	3.40	Water Level, 5", within 8 inch: NO	00:00:53	6036	M 2
	6.70	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:01:17	6037, b	
	10.30	Roots Fine Joint, at 2 o'clock, within 8 inch: YES, Start	00:02:02	6039, b	
	10.30	Crack Longitudinal, at 1 o'clock, within 8 inch: YES	00:02:14	6041, b	S 2
	11.60	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	00:02:52	6043	
	11.60	Roots Ball Lateral, at 12 o'clock, 70", within 8 inch: NO	00:03:08	6044, b	M 4
	16.20	Roots Fine Joint, at 2 o'clock, within 8 inch: YES, End	00:03:45	6046, b	
	41.00	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	00:5:10	6048	
	41.00	Roots Ball Connection, at 12 o'clock, 85", within 8 inch: NO	00:05:23	6049, b	M 4
	46.30	Roots Fine Joint, at 4 o'clock, within 8 inch: YES, Start	00:06:04	6051, b	
	49.70	Roots Fine Joint, at 4 o'clock, within 8 inch: YES, End	00:06:37	6053, b	
	60.10	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:07:31	6055, b	
	70.60	Roots Fine Joint, from 9 to 5 o'clock, within 8 inch: YES	00:08:24	6057, b	
	151.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:20	6059	
	151.20	Roots Ball Connection, at 9 o'clock, 55", within 8 inch: NO	00:12:33	6060, b	M 4
	197.20	Roots Fine Joint, at 4 o'clock, within 8 inch: YES	00:14:51	6062, b	
	223.40	Material Change, within 8 inch: NO, Remarks: To PVC	00:16:30	6064, b	
	223.40	Joint Offset Large, within 8 inch: YES	00:16:54	6066	S 2
	223.40	Abandoned Survey, within 8 inch: NO, Remarks: Due To Joint Offset Large	00:17:22	6067	
	223.40	Broken Soil Visible, from 08 to 04 o'clock, within 8 inch: YES			S 5

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5122	4321	9	14	23	3	3.5	3.29



Inspection report

Date: 20090420	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1442	PSR: 72295
Total Pipe Length: 140.00	Survey Customer: LACDPW	System Owner: PVE	Clean Date:	Pre-Cleaned: Jetting	Map Grid # 1598

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 1598-0412
City: PVE	Year Renewed:	End MH: 1598-0413
Location Code: Light Highway	Tape/Media # R057	pipe length: 140.7 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0412/1598-0413/1598	Lining Method:
	Category:

Remark::

1:325	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0412	00:00:28	5936	
	23.00	Water Level, 5", within 8 inch: NO	00:02:17	5937	M 2
	29.20	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'	00:02:41	5938	
	60.40	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:03:27	5939, b	
	63.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:18	5941	
	64.10	Roots Medium Lateral, at 9 o'clock, 20", within 8 inch: NO	00:04:32	5942, b	M 3
	72.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:37	5944	
	74.30	Roots Fine Joint, from 9 to 3 o'clock, within 8 inch: YES	00:06:31	5945, b	
	81.20	Fracture Multiple, from 06 to 11 o'clock, within 8 inch: YES	00:07:43	5947, b	S 4
	81.80	Roots Fine Joint, from 4 to 10 o'clock, within 8 inch: YES	00:07:57	5949, b	
	89.70	Roots Fine Joint, from 8 to 9 o'clock, within 8 inch: YES	00:08:30	5951, b	
	137.10	Roots Fine Joint, from 7 to 10 o'clock, within 8 inch: YES	00:10:16	5953, b	
	140.70	Manhole, within 8 inch: NO, Remarks: 1598-0413	00:11:18	5955	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	3121	4	5	9	4	2.5	3



Inspection report

Date: 20090420	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1440	PSR: 72294
Total Pipe Length: 311.00	Survey Customer: LACDPW	System Owner: PVE	Clean Date:	Pre-Cleaned: Jetting	Map Grid # 1598

Street: ALLEY	Flow Control: Not Controlled	Start MH: 1598-0412
City: PVE	Year Renewed	End MH: 1598-0411
Location Code: Light Highway	Tape/Media # R057	pipe length: 310.3 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0411/1598-0412/1598	Lining Method:
	Category:

Remark::

1:700	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0412	00:00:26	5868	
	<u>3.50</u>	Broken Soil Visible, from 09 to 07 o'clock, within 8 inch: YES			S 5
	4.00	Repair Patch, from 10 to 6 o'clock, within 8 inch: YES, Remarks: Repair	00:01:49	5869, b	
	<u>16.10</u>	Water Level, 5 #, within 8 inch: NO	00:3:10	5871	M 2
	19.30	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'	00:03:35	5872	
	19.80	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO	00:04:04	5873	
	46.20	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	00:04:50	5874, b	
	135.00	Roots Fine Joint, at 3 o'clock, within 8 inch: YES	00:06:51	5876, b	
	136.90	Roots Fine Joint, at 8 o'clock, within 8 inch: YES	00:07:35	5878, b	
	<u>139.20</u>	Roots Fine Connection, at 2 o'clock, within 8 inch: NO	00:08:36	5880	M 1
	139.40	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:08:26	5881, b	
	148.90	Roots Fine Joint, at 4 o'clock, within 8 inch: YES	00:09:55	5883, b	
	153.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:49	5885	
	<u>154.50</u>	Roots Ball Connection, at 3 o'clock, 60 #, within 8 inch: NO	00:11:01	5886, b	M 4
	235.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:30	5888	
	<u>236.10</u>	Roots Ball Connection, at 3 o'clock, 90 #, within 8 inch: NO	00:13:44	5889, b	M 4
	244.90	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	00:14:17	5891, b	
	295.90	Roots Fine Joint, from 3 to 8 o'clock, within 8 inch: YES	00:15:50	5893, b	
	306.30	Roots Fine Joint, at 2 o'clock, within 8 inch: YES	00:16:24	5895, b	
	310.30	General Observation, within 8 inch: NO, Remarks: Roots In Mh Note This Mh	00:19:04	5897	
	310.30	Manhole, within 8 inch: NO, Remarks: 1598-0411	00:19:15	5898	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	4221	5	11	16	5	2.75	3.2



Inspection report

Date: 20090522	P.O.☐ Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1758	PSR: 72680
Total Pipe Length:	Survey Customer: LACDPW	System Owner: PVE	Clean Date:	Pre-Cleaned: Jetting	Map Grid ☐ 1597

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 1597-0083
City: PVE	Year Renewed	End MH: 1597-0084
Location Code: Light Highway	Tape/Media ☐ R080	pipe length: 250.8 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0083/1597-0084/1597	Lining Method:
	Category:

Remark::

1:575	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1597-0083	00:00:34	11053	
	6.10	Water Level, 5 ☐, within 8 inch: NO	00:01:48	11054	M 2
	77.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:44	11055	
	77.80	Roots Ball Connection, at 9 o'clock, 65 ☐, within 8 inch: NO	00:06:36	11056, b	M 4
	168.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:56	11058	
	250.80	Joint Separated Large, within 8 inch: YES	00:14:49	11059, b	S 2
	250.80	Abandoned Survey, within 8 inch: NO, Remarks: Due To Joint Separated La	00:16:10	11061	
	250.80	Broken Soil Visible, from 03 to 09 o'clock, within 8 inch: YES, Remark: Severly offset pipe in flowlin			S 5

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	4121	7	6	13	3.5	3	3.25



Inspection report

Date: 20090410	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1357	PSR: 72217
Total Pipe Length: 320.00	Survey Customer: LACDPW	System Owner: PVE	Clean Date:	Pre-Cleaned: Jetting	Map Grid # 1598

Street: VIA PINZON	Flow Control: Not Controlled	Start MH: 1598-0443
City: PVE	Year Renewed	End MH: 1598-0444
Location Code: Light Highway	Tape/Media # R051	pipe length: 89.2 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0443/1598-0444/1598	Lining Method:
	Category:

Remark::

1:200	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0443	00:00:21	4369	
	18.60	Tap Factory, at 3 o'clock, 6", within 8 inch: NO	00:02:01	4370	
	18.60	Roots Ball Lateral, at 3 o'clock, 75 #, within 8 inch: NO	00:02:16	4371, b	M 4
	23.30	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	00:02:44	4373, b	M 1
	33.50	Water Level, 5 #, within 8 inch: NO	00:3:10	4375	
	36.40	General Observation, within 8 inch: NO, Remarks: Pipe joint Length 3'	00:03:32	4376	
	40.00	Roots Fine Joint, at 8 o'clock, within 8 inch: YES	00:03:46	4377, b	M 1
	70.50	Roots Fine Joint, from 9 to 11 o'clock, within 8 inch: YES	00:04:41	4379, b	M 1
	77.50	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	00:5:10	4381, b	M 1
	89.20	Tap Break-in Intruding, at 3 o'clock, 10 #, 6", 2, within 8 inch: NO	00:06:02	4383, b	M 2
	89.20	Roots Ball Lateral, at 3 o'clock, 60 #, within 8 inch: NO	00:06:21	4385, b	M 4
	89.20	Abandoned Survey, within 8 inch: NO, Remarks: Due To Tap Break In Intru	00:07:30	4387, b	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	4221	0	14	14	0	2	2