



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

January 5, 2012

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

Mr. Ray Holland, Director of Public Works  
City of Rancho Palos Verdes  
30940 Hawthorne Boulevard  
Rancho Palos Verdes, CA 90275

Attention Ms. Carla Morreale

Dear Mr. Holland:

### **CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT NO. Y0TV0809C**

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 31,410 feet or 4.3 percent of the City of Rancho Palos Verdes' sewer system.

The enclosed report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's (PACP Version 6.0.1) rating methodology. Included in the report are the following:

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

Mr. Ray Holland  
January 5, 2012  
Page 2

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

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

Very truly yours,

GAIL FARBER  
Director of Public Works



KEITH E. LEHTO  
Assistant Deputy Director  
Sewer Maintenance Division



KE:gy  
H:\SMHOME\GYoung\Memos.Letters\2315.docx

Enc.

bc: KL, RS, FV, File (Project No. Y0TV0809C), SPINDLE

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

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PROJECT NAME:	Y0TV0809C	PROJECT MGR:	Kari Eskridge
PROJECT DATE:	08/10/2009	CONTACT NO:	(626) 300-3390
SUP. DISTRICT(s):	4	MAP PAGE(S):	1544
Report By:	Eric Liu	Report Date:	11/09/2011

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**INTRODUCTION**

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District (District) has completed the closed-circuit television (CCTV) inspection of 31,410 feet or 4.3 percent of the City of Rancho Palos Verdes (City) sewer system.

The Sewer Condition Assessment Program utilizes the Pipeline Assessment and Certification Program (PACP Version 6.0.1) Quick Rating methodology to rank the structural and maintenance condition of your system based on industry standards.

**PROJECT AREA AND DESCRIPTION**

Project No. Y0TV0809C included sewer lines located in the unincorporated County of Los Angeles area and in the Cities of Glendora, Palos Verdes Estates, Rancho Palos Verdes, and San Dimas. 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 has deficiencies with the most significant defect grades. A detailed breakdown of the five possible defect grades is as follows:

<b>Grade</b>	<b>Defect Grade Description</b>
<b>1:</b>	<b>MINOR</b>
<b>2:</b>	<b>MINOR TO MODERATE</b>
<b>3:</b>	<b>MODERATE</b>
<b>4:</b>	<b>SIGNIFICANT</b>
<b>5:</b>	<b>MOST SIGNIFICANT</b>

## **MAINTENANCE REPORT**

Our inspection revealed that approximately 92.4 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 7.6 percent of the inspected pipe segments within the City 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).

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

### **QUICK MAINTENANCE RATING TABLE**

<b>DEFECT GRADE</b>	<b>PIPE LENGTH (FT)</b>	<b>PERCENT TOTAL INSPECTED PIPE LENGTH</b>	<b>NO. SEGMENTS</b>
1: Minor	162	0.5	1
2: Minor to Moderate	27,710	88.2	142
3: Moderate	1,147	3.7	3
4: Significant	1,977	6.3	10
5: Most Significant	414	1.3	2
TOTAL	31,410	100.0	158

### ***Lateral Notices***

Also included on the Quick Maintenance Rating Report Priority 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 property owner notifying them of the maintenance issues discovered in their lateral. A sample lateral notice letter is provided in Enclosure 2 for your reference.

### ***High Water Levels***

Our inspection revealed that approximately 98.7 percent of the system televised has adequate capacity. However, the remaining 1.3 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, which have indicated camera underwater or sags in the line. A sewer pipe can be considered at capacity when 50 percent 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 percent 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 percent capacity, have been outlined and analyzed on the High Water Level table in Enclosure 2. The nature of these high water level conditions is also summarized on this table.

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

***Infiltration***

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

**STRUCTURAL REPORT**

Our inspection revealed that approximately 84 percent of the inspected pipe segments within the City were free of severe structural defects. However, the remaining 16 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Structural Rating table shown below. These segments have been placed on a priority list based on the severity and the need for action. For Items 1 through 24 in the Quick Structural Rating Report Priority List (Enclosure 3), which require corrective action, the proposed repair or replacement will be scheduled in the next 24 months as part of our 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 24 segments are included in Enclosure 4.

**QUICK STRUCTURAL RATING TABLE**

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	20,489	65.2	105
2: Minor to Moderate	3,406	10.9	18
3: Moderate	2,494	7.9	11
4: Significant	3,803	12.1	18
5: Most Significant	1,218	3.9	6
TOTAL	31,410	100.0	158

## **FUTURE PROJECTS**

The Sewer Condition Assessment Program will be performing future CCTV inspection of the remaining sewer lines within the City according to the following schedule:

<b>FISCAL YEAR</b>	<b>PROJECT NAME</b>	<b>LENGTH (FT)</b>	<b>PERCENTAGE OF SYSTEM</b>	<b>STATUS</b>
2005-2006	Y0TV0506F	76,591	10.4	COMPLETED
2006-2007	Y0TV0607D	126,170	17.2	COMPLETED
2008-2009	Y0TV0809C	31,410	4.3	COMPLETED
2009-2010	Y0TV0910A	266,462	36.3	REPORT PENDING
2011-2012	Y0TV1112D	233,988	31.8	
TOTAL		734,621	100.0	

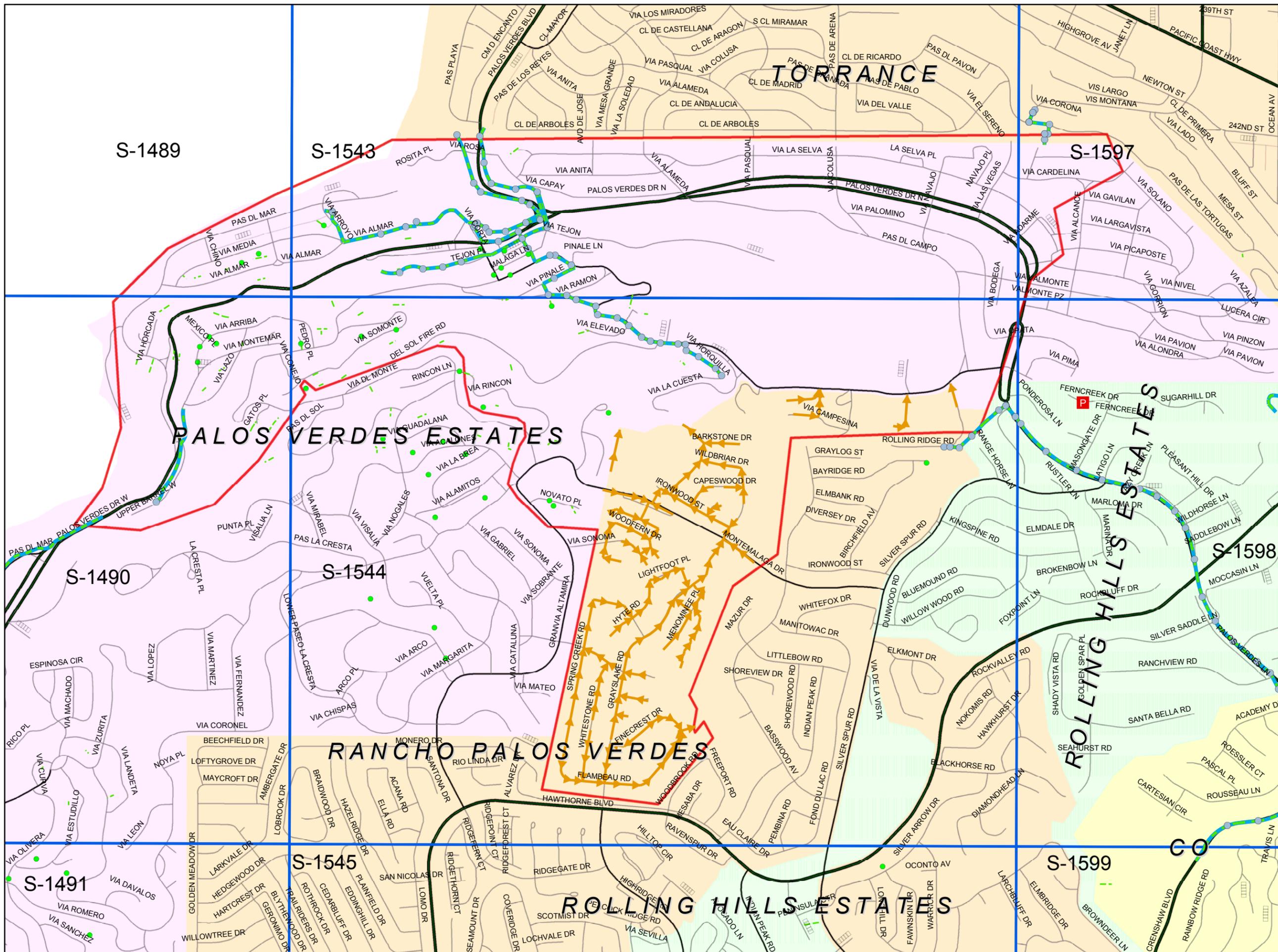
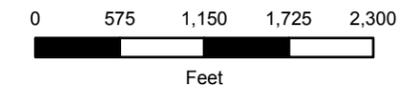
ENCLOSURE 1:

Project Overview Map

# OVERVIEW MAP RANCHO PALOS VERDES

## CCTV PROJECT Y0TV0809C

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



### Legend

#### SMD Sanitary Sewers

→ SMD Sanitary Sewers

#### 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

▭ CCTV PROJECT AREA

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AUGUST 2011

## ENCLOSURE 2:

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

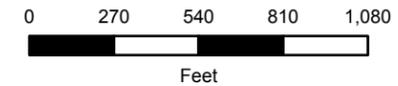
**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF RANCHO PALOS VERDES (Y0TV0809C)**  
as of 08:10:2009

ITEM NO.	QMR	MMS	START MH	END MH	STREET	OBSERVATION	CORRECTIVE ACTION TAKEN (COMPLETED DATE)
1	5122	77257	1544-0167	1544-0166	WHITESTONE RD	Roots; lateral roots	Letter will be sent to home owner; hydro (09/24/10)
2	5121	77278	1544-0188	1544-0189	Easement between IRONWOOD & BARKSTONE	Roots	Hydro (09/23/10)
3	4C21	77219	1544-0237	1544-0245	Easement North of BARKSTONE	High flow; alignment down	Hydro (10/26/11)
4	4221	77214	1544-0233	1544-0236	WILDBRIAR DR	Roots; lateral roots	Letter will be sent to home owner; hydro (09/23/10)
5	4131	77283	1544-0240	1544-0191	CAPEWOOD DR	Roots	Hydro (09/23/10)
6	4121	77256	1544-0166	1544-0165	WHITESTONE RD	Roots	Hydro (09/24/10)
7	4121	77356	1544-0154	1544-0155	HYTE RD	Roots	Hydro (09/24/10)
8	4121	76506	1544-0937	1544-0936	MONTEMALAGA DR	Roots	Hydro (09/23/10)
9	4121	76508	1544-0939	1544-0938	Easement South of MONTEMALAGA	Roots	Hydro (09/23/10)
10	4121	77274	1544-0955	1544-0185	Easement North of WOODFERN	Roots	Hydro (09/24/10)
11	4121	77336	1544-0138	1544-0137	FLAMBEAU DR	Roots; lateral roots	Letter will be sent to home owner; hydro (09/24/10)
12	4121	77279	1544-0189	1544-0190	IRONWOOD ST	Roots	Hydro (09/23/10)
13	3221	77273	1544-0185	1544-0939	Easement South of MONTEMALAGA	Roots	Hydro (09/24/10)
14	3121	77220	1544-0239	1544-0238	BARKSTONE DR	Roots; lateral roots	Letter will be sent to home owner; hydro (09/24/10)
15	3121	77267	1544-0177	1544-0178	FINECREST DR	Lateral roots	Letter will be sent to homeowner.

ENCLOSURE 2  
CCTV PROJECT  
**YOTV0809C**

RANCHO PALOS VERDES

QUICK  
MAINTENANCE  
RATING  
(QMR)



**Legend**

**SMD Sanitary Sewers**

**QMR DEFECT GRADES**

- 1: MINOR
- 2: MINOR TO MODERATE
- 3: MODERATE
- 4: SIGNIFICANT
- 5: MOST SIGNIFICANT

**SMD Manholes**

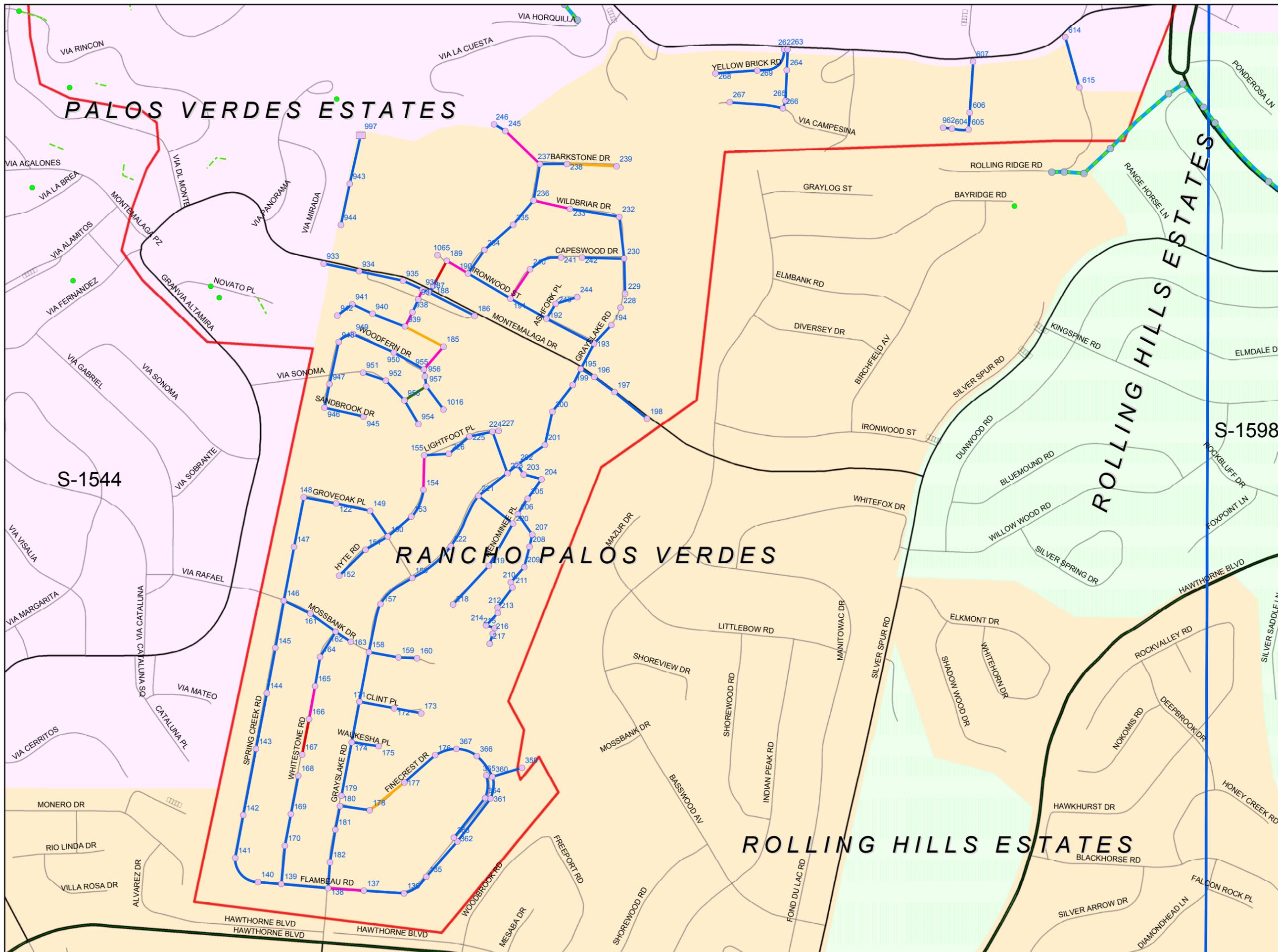
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

**Maintained by Others:**

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

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OCTOBER 2011



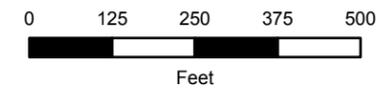
**ENCLOSURE 2**  
**HIGH WATER LEVELS**  
**CITY OF RANCHO PALOS VERDES (Y0TV0809C)**  
as of 08/10/09

Item No.	QMR	START MH	END MH	STREET	OBSERVATION	SAG (ft)
1	4C21	1544-0237	1544-0245	Easement North of BARKSTONE	High water level (Due to alignment)	(30%-80%): Hydro (10/26/11)
2	2200	1544-0266	1544-0265	Easement South of VIA CAMPESINA	High water level (Due to debris & roots)	(30%-80%): Hydro (10/26/11)

ENCLOSURE 2  
 CCTV PROJECT  
 YOTV0809C

RANCHO PALOS VERDES

HIGH WATER LEVELS



**Legend**

— High Water Levels

**SMD Manholes**

⊕ Other

**Manhole Type**

● Standard

▲ DROP

■ Shallow

◇ Trap

⊗ Siphon

● MH: High Water Levels

Ⓜ SMD Pump Stations

Ⓜ SMD Treatment Plants

**Maintained by Others:**

— Trunk Sewerlines

--- Non SMD Sanitary Sewers

● Non SMD Maintained MH

□ SMD Operations Maps

□ CCTV PROJECT AREA

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SEPTEMBER 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

Dear:

### SEWER LATERAL ROOT INTRUSION

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 XXXX, 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 were 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 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

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 XXXX 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, XXXX, Sewer Maintenance Division, at XXXX.

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

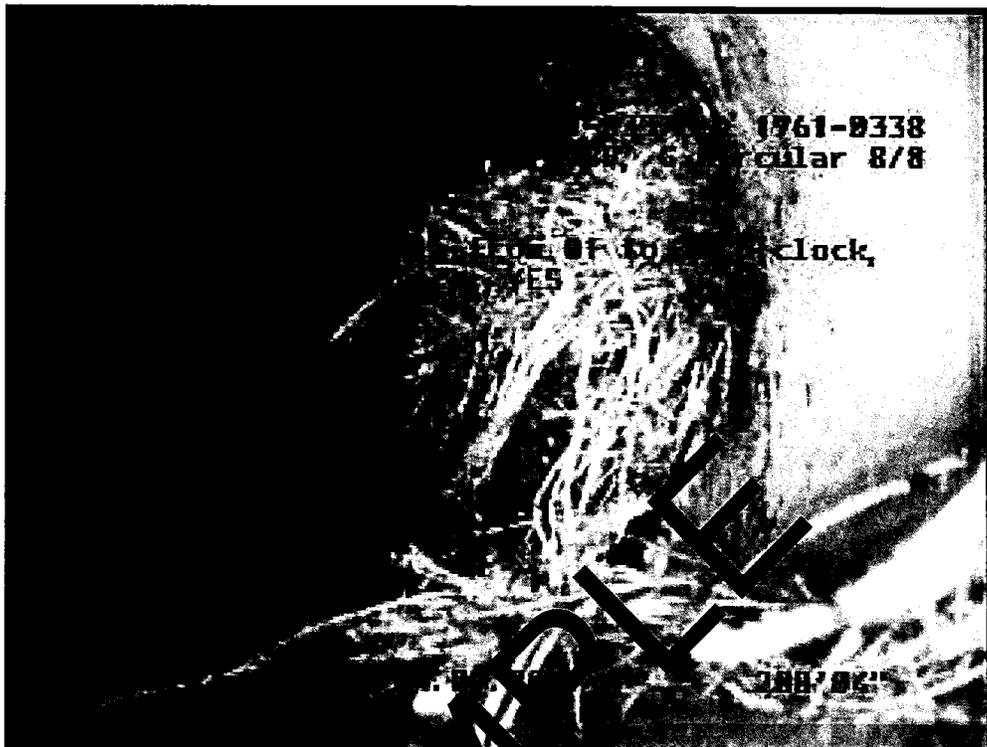
KEITH LEHTO  
Assistant Deputy Director  
Sewer Maintenance Division

EL:

Enc.

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

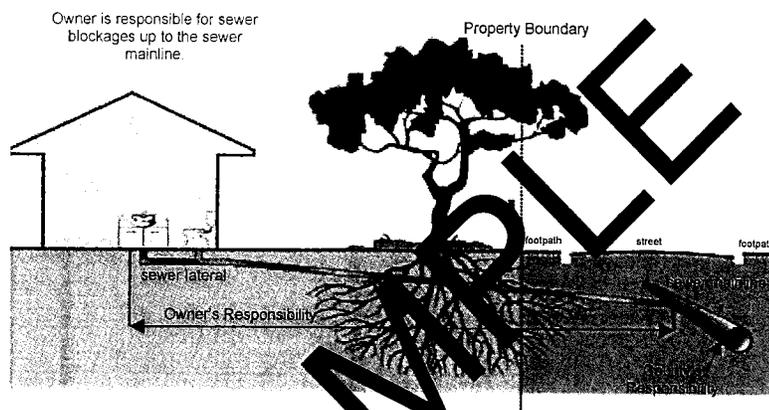
XXXX  
Roots at Lateral Connection



## 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 RANCHO PALOS VERDES (YOTV0809C)**

as of 08/10/2009

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5147	1544-0265	1544-0266	Easement South of VIA CAMPESINA	Fractures: 13', 19', 24', 29', 39', 44', 55'; hole with fracture: 33'	Lining: MH to MH	56
2	5141	1544-0135	1544-0362	FLAMBEAU DR	Broken: 43'-46'	Lining: MH to MH	298
3	5141	1544-0940	1544-0939	Easement South of MONTEMALAGA	Broken: 224'; fracture: 22'	Lining: MH to MH	227
4	5141	1544-0941	1544-0940	Easement South of MONTEMALAGA	Broken: 46'-52'	Point Repair	
5	5100	1544-0949	1544-0950	WOODFERN DR	Broken: 51'-54'	Point Repair	
6	5100	1544-0166	1544-0165	WHITESTONE RD	Hole: base of MH 165	CSMD will repair MH base.	
7	4A31	1544-0188	1544-0189	Easement between IRONWOOD & BARKSTONE	Fractures: 35', 43', 46', 52', 181'	Lining: MH to MH	190
8	4632	1544-0142	1544-0141	SPRING CREEK RD	Fractures: 7', 196', 200', 281', 311', 332', 342'	Lining: MH to MH	350
9	4532	1544-0169	1544-0170	WHITESTONE RD	Fractures: 44', 67', 114', 130', 197', 261'; hole: base of MH 170	Lining: MH to MH; CSMD will repair MH base.	282
10	4231	1544-0360	1544-0359	Easement East of FINECREST	Broken: 187'-192'	Lining: MH to MH	198
11	4221	1544-0942	1544-0941	Easement South of MONTEMALAGA	Broken: 6'; fractures: 18', 43'	Structural integrity intact. No action needed.	
12	4200	1544-0176	1544-0367	FINECREST DR	Fracture: 130', 170'; hole: base of MH 367	Lining: MH to MH; CSMD will repair MH base.	178
13	4200	1544-0203	1544-0202	Easement East of GRAYBLAKE	Fractures: 22'-28'	Lining: MH to MH	59
14	4138	1544-0362	1544-0361	FLAMBEAU DR	Fractures: 18', 55', 155', 158', 191', 262'; hole: base of MH 361	Lining: MH to MH; CSMD will repair MH base.	335
15	4132	1544-0168	1544-0169	WHITESTONE RD	Fracture: 194', 244'	Structural integrity in tact. No action needed.	
16	4131	1544-0237	1544-0245	Easement North of BARKSTONE	Fractures: 177', 183'	Structural integrity in tact. No action needed.	
17	4131	1544-0212	1544-0211	Easement East of MENOMINEE	Fracture: 45'	Structural integrity in tact. No action needed.	
18	4121	1544-0144	1544-0145	SPRING CREEK RD	Fractures: 64', 347'; hole: base of MH 145	CSMD will repair MH base.	
19	4121	1544-0165	1544-0164	WHITESTONE RD	Fractures: 105', 128'	Structural integrity in tact. No action needed.	
20	4100	1544-0146	1544-0147	SPRING CREEK RD	Fracture: 346'	Structural integrity in tact. No action needed.	
21	4100	1544-0957	1544-0956	Easement South of WOODFERN	Fracture: 40'	Structural integrity in tact. No action needed.	
22	4100	1544-0179	1544-0174	GRAYSLAKE RD	Fracture: 5'	Structural integrity in tact. No action needed.	
23	4100	1544-0197	1544-0196	MONTEMALAGA DR	Fracture: 66'	Structural integrity in tact. No action needed.	
24	4100	1544-0195	1544-0193	GRAYSLAKE RD	Fracture: 179'; hole: base of MH 193	CSMD will repair MH base.	



## ENCLOSURE 4:

Infrastructure Inspection Reports  
for Grades 4 and 5



## Inspection report

Date: <b>20111026</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>396</b>	PSR: <b>77244</b>
Total Pipe Length: <b>52</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>10.26.2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>0</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0266</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0265</b>
Location Code: <b>D Easement Right of Way</b>	Tape/Media # <b>DVD</b>	pipe length: <b>56 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>52</b>
Drain. Area: <b>0265 1544-0266 1544</b>	Lining Method:
	Category:

Remark: **NO DEFECTS DETECTED**

1:150	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0266		1	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 5' of cross sectional area			M 2
	13.50	Fracture Multiple, from 04 to 10 o'clock, within 8 inch: YES	00:02:06	2	S 4
	19.00	Fracture Multiple, from 05 to 09 o'clock, within 8 inch: YES	00:03:03	3	S 4
	23.90	Fracture Multiple, from 12 to 11 o'clock, within 8 inch: YES			S 4
	29.00	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES			S 4
	33.70	Broken, at 07 o'clock, within 8 inch: YES			S 5
	33.70	Fracture Multiple, from 04 to 10 o'clock, within 8 inch: YES			S 4
	38.90	Fracture Multiple, from 06 to 01 o'clock, within 8 inch: YES			S 4
	43.60	Fracture Multiple, from 05 to 10 o'clock, within 8 inch: YES			S 4
	54.00	Fracture Circumferential, from 04 to 08 o'clock, within 8 inch: YES			S 2
	56.00	Downstream Manhole, Survey Ends, MH 1544-0265			

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5147	2200	35	4	39	3.89	2	3.55



## Inspection report

Date: <b>20090126</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>174</b>	PSR: <b>77334</b>
Total Pipe Length: <b>275</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>01/26/2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>FLAMBEAU DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0135</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0362</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>297.56 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>275</b>
Drain. Area: <b>0135 1544-0362 1544</b>	Lining Method:
	Category:

Remark: **NONE**

1:750	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0135		50	
	<u>0.00</u>	Water Level, 5' of cross sectional area			M 2
	<u>0.00</u>	Water Mark, 5' of cross sectional area			M 2
	4.32	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:10	51	
	14.46	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:51	52	
	<u>42.88</u>	Fracture Multiple, from 08 to 04 o'clock, within 8 inch: YES	00:04:11	53, b	S 4
	<u>44.09</u>	Broken Void Visible, from 12 to 02 o'clock, within 8 inch: YES	00:04:36	55, b	S 5
	48.81	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:58	57	
	53.63	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:22	58	
	64.17	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:04	59	
	108.36	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:16	60	
	<u>109.36</u>	Crack Spiral, from 11 to 04 o'clock, within 8 inch: YES	00:09:34	61, b	S 2
	111.47	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:37	63	
	172.73	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:13:15	64	
	179.46	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:43	65	
	<u>211.60</u>	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:15:10	66, b	S 2
	218.03	Roots Fine Joint, from 09 to 03 o'clock, within 8 inch: YES	00:15:43	68, b	
	220.34	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:16:14	70	
	230.48	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:16:50	71	
	<u>235.30</u>	Crack Spiral, from 10 to 03 o'clock, within 8 inch: YES	00:17:13	72, b	S 2
	237.21	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:17:53	74	
	274.67	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:19:28	75	
	294.95	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:20:37	76	
	297.56	Downstream Manhole, Survey Ends 1544-0362	00:21:43	77	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2200	15	4	19	3	2	2.71



## Inspection report

Date: <b>20090213</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>216</b>	PSR: <b>76509</b>
Total Pipe Length: <b>226</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>02/13/2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>0</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0940</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0939</b>
Location Code: <b>D Easement Right of Way</b>	Tape/Media #:	pipe length: <b>228.09 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia./Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>226</b>
Drain. Area: <b>0939 1544-0940 1544</b>	Lining Method:
	Category:

Remark.: **None**

1:575	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0940		17, b	
	0.10	Water Level, 5' of cross sectional area			M 2
	0.30	Water Mark, 5' of cross sectional area			M 2
	22.89	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:01:42	19, b	S 4
	70.78	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:14	21	
	136.74	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:05:43	22, b	
	169.16	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:06:46	24	
	197.57	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:07:37	25	
	224.78	Hole Soil Visible, from 07 to 09 o'clock, within 8 inch: YES	00:08:40	26, b	S 5
	228.09	Downstream Manhole, Survey Ends 1544-0939	00:09:05	28	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2200	9	4	13	4.5	2	3.25



**National Plant Services**  
 1461 Harbor Avenue  
 Long Beach Ca. 90813-2741  
 Tel: (562) 436-7600, Fax: (562) 495-1528

## Inspection report

Date: <b>20090213</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>217</b>	PSR: <b>76510</b>
Total Pipe Length: <b>144</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>02:13 2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>0</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0941</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0940</b>
Location Code: <b>D Easement: Right of Way</b>	Tape: Media #:	pipe length: <b>146.37 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia./Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>144</b>
Drain. Area: <b>0940 1544-0941 1544</b>	Lining Method:
	Category:

Remark.: **A THE FLOW**

1:375	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1544-0940		29	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 5' of cross sectional area			M 2
	6.43	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:00:51	30	
	47.59	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:02:32	31, b	S 4
	50.00	Broken, from 12 to 12 o'clock, within 8 inch: YES	00:02:49	33, b	S 4
	146.37	Upstream Manhole, Survey Ends 1544-0941	00:09:37	35	

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



National Plant Services  
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 Long Beach Ca. 90813-2741  
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## Inspection report

Date: <b>20090129</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>37</b>	PSR: <b>76518</b>
Total Pipe Length: <b>305</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>01/29/2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>WOODFERN DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0949</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0950</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>293.45 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>305</b>
Drain. Area: <b>0949 1544-0950 1544</b>	Lining Method:
	Category:

Remark.: **None**

1:725	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0949		1	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 5' of cross sectional area			M 2
	51.90	Hole Soil Visible, from 12 to 12 o'clock, within 8 inch: YES	00:03:30	2, b	S 5
	71.68	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:31	4	
	176.59	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:20	5	
	271.16	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:04	6	
	293.45	Downstream Manhole, Survey Ends 1544-0950	00:13:13	7	

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



## Inspection report

Date: <b>20090127</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>18</b>	PSR: <b>77256</b>
Total Pipe Length: <b>216</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>01/27/2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>WHITESTONE RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0166</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0165</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>354 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>216</b>
Drain. Area: <b>0165 1544-0166 1544</b>	Lining Method:
	Category:

Remark.: **None**

1:875	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0166		54, b	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 5' of cross sectional area			M 2
	10.74	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:14	56	
	11.34	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:01:23	57, b	
	43.67	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:51	59	
	43.67	Roots Ball Lateral, at 09 o'clock, 5', within 8 inch: YES	00:03:07	60, b	M 4
	69.97	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:13	62	
	119.97	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:16	63	
	139.35	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:27	64	
	195.97	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:31	65	
	212.13	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:11	66	
	275.28	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:12:11	67	
	281.40	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:31	68	
	344.65	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:14:41	69	
	354.00	Hole, at 07 o'clock, within 8 inch: YES, Remark: base of MH 1544-0165			S 5

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	4122	5	8	13	5	2.67	3.25



## Inspection report

Date: <b>20090130</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>57</b>	PSR: <b>77278</b>
Total Pipe Length: <b>183</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>01.30.2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>0</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0188</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0189</b>
Location Code: <b>D Easement Right of Way</b>	Tape Media #:	pipe length: <b>191.05 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>183</b>
Drain. Area: <b>0188 1544-0189 1544</b>	Lining Method:
	Category:

Remark.: **None**

1:475	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0188		51	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	7.33	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:00:31	52, b	
	15.06	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:00:57	54, b	
	19.58	Roots Ball Barrell, from 12 to 06 o'clock, 10 %, within 8 inch: YES	00:01:17	56, b	M 5
	35.94	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:01:59	58, b	S 4
	43.27	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:02:27	60, b	S 4
	46.08	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:02:43	62, b	S 4
	52.91 S1	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES, start	00:03:09	64, b	S 4
	93.67 F1	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES, end	00:04:17		S 4
	181.01	Fracture Longitudinal, at 02 o'clock, within 8 inch: YES	00:06:35	66, b	S 3
	191.05	Downstream Manhole, Survey Ends 1544-0189	00:07:03	68	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4A31	5122	47	9	56	3.92	3	3.73



## Inspection report

Date: <b>20090126</b>	P.O.☐ <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>1</b>	PSR: <b>77343</b>
Total Pipe Length: <b>250</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>01.26.2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid ☐ <b>1544</b>

Street: <b>SPRING CREEK RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0142</b>
City: <b>RPV</b>	Year Renewed	End MH: <b>1544-0141</b>
Location Code: <b>C Light Highway</b>	Tape:Media ☐	pipe length: <b>350.17 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia:Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>250</b>
Drain. Area: <b>0141 1544-0142 1544</b>	Lining Method:
	Category:

Remark:: **None**

1:875	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0142		48	
	0.00	Water Level, 5 ☐ of cross sectional area			M 2
	0.00	Water Mark, 5 of cross sectional area			M 2
	5.22	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:00:53	49	
	7.63	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:01:13	50, b	S 4
	8.53	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:27	52	
	47.79	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:14	53	
	61.54	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:51	54	
	112.24	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:05:44	55	
	125.59	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:06:18	56	
	133.12	Fracture Longitudinal, at 12 o'clock, within 8 inch: YES	00:06:47	57, b	S 3
	174.89	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:16	59	
	188.14	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:49	60	
	194.06	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	00:09:08	61, b	S 2
	196.77	Fracture Multiple, from 05 to 09 o'clock, within 8 inch: YES	00:09:37	63, b	S 4
	200.59	Fracture Multiple, from 12 to 05 o'clock, within 8 inch: YES	00:10:07	65, b	S 4
	231.11	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:11:19	67, b	S 4
	239.24	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:12:14	69	
	249.28	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:52	70	
	281.70	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:14:14	71, b	S 4
	299.88	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:15:01	73	
	312.32	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:15:33	74, b	S 4
	332.50	Fracture Circumferential, from 09 to 03 o'clock, within 8 inch: YES	00:16:45	76, b	S 2
	342.64	Crack Multiple, from 07 to 11 o'clock, within 8 inch: YES	00:17:33	78, b	S 3
	350.17	Downstream Manhole, Survey Ends 1544-0141	00:18:24	80	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4632	2200	34	4	38	3.4	2	3.17



## Inspection report

Date: <b>20090126</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>5</b>	PSR: <b>77259</b>
Total Pipe Length: <b>206</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>01/26/2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>WHITESTONE RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0169</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0170</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>284.42 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>206</b>
Drain. Area: <b>0169 1544-0170 1544</b>	Lining Method:
	Category:

Remark: **None**

1:700	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0169		21	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 5' of cross sectional area			M 2
	6.02	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:55	22	
	44.07	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:03:22	23, b	S 4
	44.98	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:03:41	25	
	65.36	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:04:29	26	
	67.46	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:04:42	27, b	S 4
	114.85	Fracture Multiple, from 04 to 07 o'clock, within 8 inch: YES	00:06:46	29, b	S 4
	116.16	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:03	31	
	130.31	Fracture Multiple, from 09 to 10 o'clock, within 8 inch: YES	00:07:40	32, b	S 4
	138.24	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:06	34	
	189.14	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:48	35	
	197.88	Fracture Spiral, from 05 to 10 o'clock, within 8 inch: YES	00:10:24	36, b	S 3
	209.42	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:11:11	38	
	261.83	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:13:56	39, b	S 4
	263.23	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:14:19	41	
	268.85	Fracture Longitudinal, at 04 o'clock, within 8 inch: YES	00:14:44	42, b	S 3
	284.42	Downstream Manhole, Survey Ends 1544-0170	00:15:31	44	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4532	2200	26	4	30	3.71	2	3.33



**National Plant Services**  
 1461 Harbor Avenue  
 Long Beach Ca. 90813-2741  
 Tel: (562) 436-7600, Fax: (562) 495-1528

## Inspection report

Date: <b>20090304</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>714</b>	PSR: <b>77118</b>
Total Pipe Length: <b>197</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>03.03.2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>0</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0360</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0359</b>
Location Code: <b>D Easement Right of Way</b>	Tape/Media #:	pipe length: <b>197.61 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 10 10</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>197</b>
Drain. Area: <b>0359 1544-0360 1544</b>	Lining Method:
	Category:

Remark: **Cracks**

1:500	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0360		2	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 10' of cross sectional area			M 2
	9.33	Crack Multiple, from 01 to 04 o'clock, within 8 inch: YES	00:00:54	3, b	S 3
	21.18	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES	00:03:00	5	
	151.04	Crack Longitudinal, at 02 o'clock, within 8 inch: YES	00:07:16	10, b	S 2
	187.67	Fracture Multiple, from 08 to 04 o'clock, within 8 inch: YES	00:08:57	12, b	S 4
	190.28	Fracture Multiple, from 11 to 08 o'clock, within 8 inch: YES	00:09:37	14, b	S 4
	197.61	Downstream Manhole, Survey Ends 1544-0359	00:10:54	16	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4231	2200	13	4	17	3.25	2	2.83



## Inspection report

Date: <b>20090213</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>218</b>	PSR: <b>76511</b>
Total Pipe Length: <b>121</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>02/13/2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>0</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0942</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0941</b>
Location Code: <b>D Easement Right of Way</b>	Tape Media #:	pipe length: <b>125.59 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>121</b>
Drain. Area: <b>0941 1544-0942 1544</b>	Lining Method:
	Category:

Remark: **A THE FLOW**

1:325	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1544-0941		36	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 5' of cross sectional area			M 2
	7.03	Fracture Multiple, from 02 to 05 o'clock, within 8 inch: YES	00:00:36	37, b	S 4
	10.94	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:01:53	39	
	20.18	Fracture Circumferential, from 08 to 12 o'clock, within 8 inch: YES	00:03:05	40	S 2
	43.57	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:06:52	41, b	S 4
	55.82	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES	00:08:22	43	
	108.53	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:48	44	
	110.63	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:08	45	
	125.49	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:12:07	46	
	125.59	Upstream Manhole, Survey Ends 1544-0942	00:13:48	47	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4221	2200	10	4	14	3.33	2	2.8



## Inspection report

Date: <b>20090303</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>667</b>	PSR: <b>77266</b>
Total Pipe Length: <b>116</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>03.03.2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>FINECREST DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0176</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0367</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>177.54 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>116</b>
Drain. Area: <b>0176 1544-0367 1544</b>	Lining Method:
	Category:

Remark: \_\_\_\_\_

1:450	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0176		103	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 5' of cross sectional area			M 2
	13.45	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:22	104	
	47.07	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:47	105	
	94.24	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:39	106	
	114.61	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:40	107	
	130.17	Fracture Multiple, from 03 to 08 o'clock, within 8 inch: YES	00:06:27	108, b	S 4
	170.71	Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:08:05	110, b	S 4
	177.54	Downstream Manhole, Survey Ends 1544-0367	00:09:03	112	

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



## Inspection report

Date: <b>20090304</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>712</b>	PSR: <b>77295</b>
Total Pipe Length: <b>61</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>03.04.2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>0</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0203</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0202</b>
Location Code: <b>D Easement Right of Way</b>	Tape Media #:	pipe length: <b>58.81 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>61</b>
Drain. Area: <b>0202 1544-0203 1544</b>	Lining Method:
	Category:

Remark.: **TVed upstream**

1:150	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1544-0202		25	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 5' of cross sectional area			M 2
	22.98	Fracture Multiple, from 12 to 08 o'clock, within 8 inch: YES	00:01:42	26, b	S 4
	25.39	Fracture Multiple, from 07 to 05 o'clock, within 8 inch: YES	00:02:25	28, b	S 4
	58.81	Upstream Manhole, Survey Ends 1544-0203	00:03:54	30	

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



## Inspection report

Date: <b>20090303</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>670</b>	PSR: <b>77122</b>
Total Pipe Length: <b>318</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>03.03.2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>FLAMBEAU DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0362</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0361</b>
Location Code: <b>C Light Highway</b>	Tape Media #:	pipe length: <b>334.2 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>318</b>
Drain. Area: <b>0361 1544-0362 1544</b>	Lining Method:
	Category:

Remark:: **Cracks**

1:594	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0362		24	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 10' of cross sectional area			M 2
	11.64	Crack Spiral, from 10 to 02 o'clock, within 8 inch: YES	00:02:50	32, b	S 2
	18.17	Crack Spiral, from 12 to 05 o'clock, within 8 inch: YES	00:03:50	34, b	S 2
	42.75	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:57	36	
	55.50	Crack Spiral, from 01 to 05 o'clock, within 8 inch: YES	00:05:47	37, b	S 2
	56.50	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:05	39	
	78.88	Crack Spiral, from 11 to 01 o'clock, within 8 inch: YES	00:07:27	40, b	S 2
	108.89	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:07	42	
	122.44	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:54	43	
	130.17	Fracture Spiral, from 08 to 03 o'clock, within 8 inch: YES	00:10:19	44, b	S 3
	148.63	Crack Multiple, from 11 to 02 o'clock, within 8 inch: YES	00:11:26	46, b	S 3
	154.15	Fracture Spiral, from 10 to 03 o'clock, within 8 inch: YES	00:12:04	48, b	S 3
	158.37	Fracture Spiral, from 10 to 01 o'clock, within 8 inch: YES	00:12:28	50, b	S 3
	174.43	Crack Longitudinal, at 12 o'clock, within 8 inch: YES	00:13:07	52, b	S 2
	176.53	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:24	54	
	183.16	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:13:47	55	
	191.09	Fracture Multiple, from 07 to 05 o'clock, within 8 inch: YES	00:14:08	56, b	S 4
	221.50	Crack Spiral, from 09 to 04 o'clock, within 8 inch: YES	00:15:21	58, b	S 2
	240.36	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:16:08	60	
	241.77	Fracture Spiral, from 09 to 01 o'clock, within 8 inch: YES	00:16:18	61, b	S 3
	243.98	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:16:32	63	



## Inspection report

Date: <b>20090303</b>	P.O. #: <b>YOTV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>670</b>	PSR: <b>77122</b>
Total Pipe Length: <b>318</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>03.03.2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

1:594	position	observation	MPEG	photo	grade
	<a href="#">252.01</a>	Crack Spiral, from 09 to 02 o'clock, within 8 inch: YES	00:16:56	64, b	S 2
	<a href="#">258.83</a>	Crack Spiral, from 11 to 02 o'clock, within 8 inch: YES	00:17:24	66, b	S 2
	<a href="#">262.34</a>	Crack Multiple, from 07 to 01 o'clock, within 8 inch: YES	00:17:44	68, b	S 3
	<a href="#">268.97</a>	Crack Spiral, from 10 to 02 o'clock, within 8 inch: YES	00:18:07	70, b	S 2
	<a href="#">275.99</a>	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:18:36	72, b	S 2
	<a href="#">278.90</a>	Crack Multiple, from 10 to 04 o'clock, within 8 inch: YES	00:18:54	74, b	S 3
	<a href="#">295.76</a>	Crack Spiral, from 11 to 02 o'clock, within 8 inch: YES	00:19:51	76, b	S 2
	<a href="#">299.18</a>	Fracture Spiral, from 11 to 02 o'clock, within 8 inch: YES	00:20:11	78, b	S 3
	<a href="#">304.50</a>	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:20:45	80	
	<a href="#">313.83</a>	Crack Spiral, from 03 to 05 o'clock, within 8 inch: YES	00:21:30	81, b	S 2
	<a href="#">319.65</a>	Crack Spiral, from 01 to 04 o'clock, within 8 inch: YES	00:21:54	83, b	S 2
	<a href="#">324.97</a>	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:22:20	85	
	<a href="#">334.20</a>	Downstream Manhole, Survey Ends 1544-0361	00:23:00	86	



## Inspection report

Date: <b>20090126</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>4</b>	PSR: <b>77258</b>
Total Pipe Length: <b>251</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>01/26/2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>WHITESTONE RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0168</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0169</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>254.4 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>251</b>
Drain. Area: <b>0168 1544-0169 1544</b>	Lining Method:
	Category:

Remark: **None**

1:625	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0168		1	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 5' of cross sectional area			M 2
	6.02	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:20	2, b	
	9.64	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:59	4	
	43.27	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:46	5	
	46.68	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:23	6	
	104.21	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:07:45	7	
	117.86	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:24	8	
	167.56	Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES	00:10:13	9, b	S 3
	168.66	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:10:36	11	
	170.87	Crack Circumferential, from 08 to 11 o'clock, within 8 inch: YES	00:10:52	12, b	S 1
	185.33	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:36	14	
	194.36	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:12:02	15, b	S 4
	232.51	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:43	17	
	244.96	Fracture Longitudinal, at 03 o'clock, within 8 inch: YES	00:14:38	18, b	S 3
	254.40	Downstream Manhole, Survey Ends 1544-0169	00:15:10	20	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4132	2200	11	4	15	2.75	2	2.5



## Inspection report

Date: <b>20111026</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>833</b>	PSR: <b>77219</b>
Total Pipe Length: <b>310</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>10.26.2011</b>	Pre-Cleaned: <b>H Heavy Cleaning</b>	Map Grid #: <b>1544</b>

Street: <b>0</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0237</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0245</b>
Location Code: <b>D Easement Right of Way</b>	Tape/Media #: <b>DVD</b>	pipe length: <b>210 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 10 10</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>310</b>
Drain. Area: <b>0237 1544-0245 1544</b>	Lining Method:
	Category:

Remark: **Alignment down until End MH**

1:525	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0237			7606
	0.00	Water Level, 10 % of cross sectional area	00:00:20		M 2
	113.00	Alignment Down, 60 % start	00:00:24		M 4
	177.00	Fracture Spiral, from 09 to 12 o'clock, within 8 inch: YES			S 3
	183.00	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES			S 4
	210.00	Alignment Down, 60 % end	00:01:45	7607	M 4
	210.00	Downstream Manhole, Survey Ends, MH 1544-0245			

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	4C21	7	78	85	3.5	3.9	3.86



## Inspection report

Date: <b>20090216</b>	P.O. #: <b>YOTV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>361</b>	PSR: <b>77305</b>
Total Pipe Length: <b>160</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>02:16 2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>0</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0212</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0211</b>
Location Code: <b>D Easement Right of Way</b>	Tape Media #:	pipe length: <b>157.91 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>160</b>
Drain. Area: <b>0211 1544-0212 1544</b>	Lining Method:
	Category:

Remark: **AGAINST THE FLOW**

1:400	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1544-0211		39	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 5' of cross sectional area			M 2
	25.75	Crack Multiple, from 02 to 06 o'clock, within 8 inch: YES	00:03:28	40, b	S 3
	42.48	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:04:58	42, b	S 2
	44.89	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:35	44	
	45.29	Fracture Multiple, from 03 to 06 o'clock, within 8 inch: YES	00:05:58	45, b	S 4
	47.89	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:08:27	47	
	75.75	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:09:32	48	
	157.91	Upstream Manhole, Survey Ends 1544-0212	00:13:34	49	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2200	9	4	13	3	2	2.6



## Inspection report

Date: <b>20090127</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>8</b>	PSR: <b>77346</b>
Total Pipe Length: <b>279</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>01/27/2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>SPRING CREEK RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0144</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0145</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>352.08 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>279</b>
Drain. Area: <b>0144 1544-0145 1544</b>	Lining Method:
	Category:

Remark: **None**

1:875	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0144		1	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	23.19	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:01:59	2	
	62.75	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:04:08	3	
	64.15	Fracture Circumferential, from 12 to 12 o'clock, within 8 inch: YES	00:04:36	4, b	S 2
	88.95	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:42	6	
	110.13	Roots Fine Joint, from 07 to 10 o'clock, within 8 inch: YES	00:06:47	7, b	
	131.82	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:52	9	
	158.12	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:08:58	10	
	159.02	Roots Fine Joint, from 10 to 02 o'clock, within 8 inch: YES	00:09:09	11, b	
	201.39	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:39	13	
	230.81	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:49	14	
	273.87	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:28	15	
	303.49	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:14:34	16	
	339.83	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:16:10	17	
	347.96	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:16:40	18, b	S 4
	352.08	Downstream Manhole, Survey Ends 1544-0145	00:17:12	20	

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



## Inspection report

Date: <b>20090127</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>17</b>	PSR: <b>77255</b>
Total Pipe Length: <b>191</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>01/27/2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>WHITESTONE RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0165</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0164</b>
Location Code: <b>C Light Highway</b>	Tape Media #:	pipe length: <b>134.23 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia./Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>191</b>
Drain. Area: <b>0164 1544-0165 1544</b>	Lining Method:
	Category:

Remark.: **None**

1:350	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0165		71	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 5' of cross sectional area			M 2
	11.34	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:40	72	
	71.18	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:40	73	
	83.83	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:11	74	
	105.31	Fracture Circumferential, from 03 to 05 o'clock, within 8 inch: YES	00:05:00	75, b	S 2
	123.38	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:55	77	
	128.50	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:06:15	78, b	S 4
	134.23	Downstream Manhole, Survey Ends 1544-0164	00:07:01	80	

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



## Inspection report

Date: <b>20090127</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>10</b>	PSR: <b>77348</b>
Total Pipe Length: <b>375</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>01/27/2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>SPRING CREEK RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0146</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0147</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>350.17 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia./Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>375</b>
Drain. Area: <b>0146 1544-0147 1544</b>	Lining Method:
	Category:

Remark: **None**

1:875	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0146		101	
	0.00	Water Level, 5 of cross sectional area			M 2
	0.00	Water Mark, 5 of cross sectional area			M 2
	67.56	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:35	102	
	76.70	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:02	103	
	133.52	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:48	104	
	153.10	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:34	105	
	206.81	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:37	106	
	232.81	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:32	107	
	264.34	Roots Fine Joint, from 08 to 10 o'clock, within 8 inch: YES	00:09:33	108, b	
	279.30	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:09	110	
	312.22	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:23	111	
	346.66	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:12:43	112, b	S 4
	350.17	Downstream Manhole, Survey Ends 1544-0147	00:13:18	114	

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



**National Plant Services**  
 1461 Harbor Avenue  
 Long Beach Ca. 90813-2741  
 Tel: (562) 436-7600, Fax: (562) 495-1528

## Inspection report

Date: <b>20090129</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>45</b>	PSR: <b>76525</b>
Total Pipe Length: <b>65</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>01/29/2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>0</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0957</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0956</b>
Location Code: <b>D Easement Right of Way</b>	Tape Media #:	pipe length: <b>65.26 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>65</b>
Drain. Area: <b>0956 1544-0957 1544</b>	Lining Method:
	Category:

Remark.: **A THE FLOW**

1:175	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1544-0956		26	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 5' of cross sectional area			M 2
	40.76	Fracture Multiple, from 03 to 07 o'clock, within 8 inch: YES	00:05:32	27, b	S 4
	58.63	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:05	29	
	65.26	Upstream Manhole, Survey Ends 1544-0957	00:07:40	30	

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



## Inspection report

Date: <b>20090129</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>221</b>	PSR: <b>77264</b>
Total Pipe Length: <b>350</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>01/29/2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>GRAYSLAKE RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0179</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0174</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>314.34 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia./Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>350</b>
Drain. Area: <b>0174 1544-0179 1544</b>	Lining Method:
	Category:

Remark: **AGAINST FLOW**

1:775	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1544-0174		1	
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 5' of cross sectional area			M 2
	5.82	Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:01:27	14, b	S 4
	59.05	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:52	16	
	61.56	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:04	17	
	125.13	Tap Factory Made Active, at 09 o'clock, 8", within 8 inch: YES	00:06:27	18	
	135.17	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:53	19	
	188.10	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:48	20	
	200.85	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:20	21	
	234.50	Roots Fine Joint, from 12 to 04 o'clock, within 8 inch: YES	00:10:58	22, b	
	251.27	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:39	24	
	262.41	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:13:03	25, b	
	267.23	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:13:31	27	
	309.21	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:15:47	28	
	314.34	Upstream Manhole, Survey Ends 1544-0179	00:16:23	29	

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



**National Plant Services**  
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## Inspection report

Date: <b>20090202</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>246</b>	PSR: <b>77290</b>
Total Pipe Length: <b>162</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>02.02 2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>MONTEMALAGA DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0197</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0196</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>150.1 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>162</b>
Drain. Area: <b>0196 1544-0197 1544</b>	Lining Method:
	Category:

Remark: **TVed upstream**

1:375	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1544-0196	00:00:00	61	
	0.00	Water Level, Sag in pipe, 5 % of cross sectional area	00:00:00		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:00		M 2
	0.20	Roots Fine Joint, from 03 to 06 o'clock, within 8 inch: YES	00:00:47	62, b	
	10.10	Roots Fine Joint, from 03 to 06 o'clock, within 8 inch: YES	00:01:18	64, b	
	25.20	Roots Fine Joint, from 02 to 09 o'clock, within 8 inch: YES	00:01:59	66, b	
	66.50	Fracture Multiple, from 10 to 02 o'clock, within 8 inch: YES	00:04:27	68, b	S 4
	125.70	Roots Fine Joint, from 08 to 09 o'clock, within 8 inch: YES	00:07:51	70, b	
	150.10	Upstream Manhole, Survey Ends 1544-0197	00:09:52	72	

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



## Inspection report

Date: <b>20090303</b>	P.O. #: <b>Y0TV0809C</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B. FUGATE</b>	section number: <b>668</b>	PSR: <b>77287</b>
Total Pipe Length: <b>208</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>RPV</b>	Clean Date: <b>03.03.2009</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1544</b>

Street: <b>GRAYSLAKE RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1544-0195</b>
City: <b>RPV</b>	Year Renewed:	End MH: <b>1544-0193</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>181.35 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8 8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>208</b>
Drain. Area: <b>0193 1544-0195 1544</b>	Lining Method:
	Category:

Remark.: **None**

1:450	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1544-0195			17
	0.00	Water Level, 5' of cross sectional area			M 2
	0.00	Water Mark, 10' of cross sectional area			M 2
	99.16	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES	00:07:26		18
	179.45	Fracture Multiple, from 07 to 11 o'clock, within 8 inch: YES	00:10:30	19, b	S 4
	181.35	Downstream Manhole, Survey Ends 1544-0193	00:11:07		21

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