



GAIL FARBER, Director

# COUNTY OF LOS ANGELES

## DEPARTMENT OF PUBLIC WORKS

*"To Enrich Lives Through Effective and Caring Service"*

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P.O. BOX 1460  
ALHAMBRA, CALIFORNIA 91802-1460

June 17, 2014

IN REPLY PLEASE

REFER TO FILE: **SM-1**

Mr. David Liu  
Director of Public Works/City Engineer  
City of Diamond Bar  
21810 Copley Drive  
Diamond Bar, CA 91765-4178

Attention Ms. Kimberly Young

Dear Mr. Liu:

### **CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT NO. Y0TV1011A**

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 recently completed the closed-circuit television (CCTV) inspection of 102,123 feet or 12.4 percent of the City of Diamond Bar's sewer system.

To date, the District has completed the CCTV inspection of 216,218 feet or 26.2 percent of the City's sewer system. In addition to this report, one previous condition assessment report dated March 6, 2013, was provided to your City. The remaining 73.8 percent of the City's sewer system is part of the District's CCTV inspection project scheduled to begin in October 2014.

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)

Mr. David Liu  
June 17, 2014  
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- High Water Levels List and Map (Enclosure 2)
- Infiltration List and Map (Enclosure 2)
- Quick Structural Rating Report Priority List, Quick Structural Rating Map, and Lining and Point Repair Projects Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

The Condition Assessment Report provides details regarding the maintenance and structural condition of your City's sewer mainlines. This information should 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 enhanced maintenance 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 our 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



MASSOOD EFTEKHARI  
Deputy Director

EL:sb  
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Enc.

bc: Programs Development (Derakhshani)  
MM, RS, FV, File (Project Y0TV1011A), SPINDLE

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

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PROJECT NAME:	Y0TV1011A	PROJECT MGR:	Eric Liu
COMPLETED DATE:	09/01/2011	CONTACT NO:	(626) 300-3369
SUP. DISTRICT(S):	4	MAP PAGE(S):	2389, 2390, 2432, 2433
Report By:	Eric Liu	Report Date:	05/05/2014

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**INTRODUCTION**

As part of our 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 102,123 feet or 12.4 percent of the City of Diamond Bar's (City) sewer system as part of this condition assessment report.

To date, the District has completed the CCTV inspection of 216,218 feet or 26.2 percent of the City's sewer system. In addition to this report, one previous condition assessment report dated March 6, 2013, was provided to your City. A copy of this report can also be found on the District's website at <http://dpw.lacounty.gov/smd/cctv/city/>.

The remaining 73.8 percent of the City's sewer system is part of the District's CCTV inspection project scheduled to begin in October 2014.

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. Y0TV1011A included sewer lines located in the unincorporated County of Los Angeles and the Cities of Commerce, Diamond Bar, Glendora, Irwindale, and La Habra Heights. 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:

<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 65.9 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 34.1 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 enhanced 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>
<b>1: Minor</b>	0	0.0	0
<b>2: Minor to Moderate</b>	67,313	65.9	275
<b>3: Moderate</b>	19,153	18.7	76
<b>4: Significant</b>	15,604	15.3	62
<b>5: Most Significant</b>	53	0.1	1
<b>TOTAL</b>	<b>102,123</b>	<b>100.0</b>	<b>414</b>

### ***Lateral Notices***

Also included on the Quick Maintenance Rating Report Priority List are deficiencies discovered inside the private 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. For this project, 69 notices will be sent to property owners in your City 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 96.1 percent of the system televised has adequate capacity. However, the remaining 3.9 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 indicated the camera was underwater or there were 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 the pipe segments with such high water level concerns was conducted to determine capacity issues, if any. The sewer segments associated with high water levels appear to be the result of sags or debris in the line, which do not impact its capacity. The pipe segments have been cleaned to remove any debris in the line.

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.

### ***Infiltration***

Our inspection revealed that approximately 0.5 percent of the system included in this project has infiltration within the pipe segment. Infiltration is the ingress of groundwater into the sewers through a defect or porous area of the pipe wall. All sewer pipes where infiltration was found are listed on the Infiltration Table (Enclosure 2). This table also provides the proposed corrective action for these impacted sewer segments. If a corrective method is proposed, the remediation will be scheduled in the next 24 months as part of our ongoing Accumulative Capital Outlay Program.

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

## **STRUCTURAL REPORT**

Our inspection revealed that approximately 86.3 percent of the inspected pipe segments within the City were free of severe structural defects. The remaining 13.7 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. These segments have been placed on a priority list based on the severity and the need for action. For Items 1 through 54 in the Quick Structural Rating Report Priority List (Enclosure 3), which require a corrective action, the proposed repair or replacement will be scheduled in the next 24 months as part of our ongoing Accumulative Capital Outlay Program.

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 54 segments are included in Enclosure 4. A map showing the sewer lines that need lining and point repair is also provided in Enclosure 3.

### **QUICK STRUCTURAL RATING TABLE**

<b>DEFECT GRADE</b>	<b>PIPE LENGTH (FT)</b>	<b>PERCENT TOTAL INSPECTED PIPE LENGTH</b>	<b>NO. SEGMENTS</b>
1: Minor	77,531	76.0	322
2: Minor to Moderate	940	0.9	3
3: Moderate	9,603	9.4	35
4: Significant	11,880	11.6	45
5: Most Significant	2,169	2.1	9
TOTAL	102,123	100.0	414

## **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>
2009-10	Y0TV0910C	114,095	13.8	COMPLETED
2010-11	Y0TV1011A	102,123	12.4	COMPLETED
2014-15	Y0TV1415B	608,991	73.8	SCHEDULED FOR OCT. 2014
TOTAL		825,209	100.0	

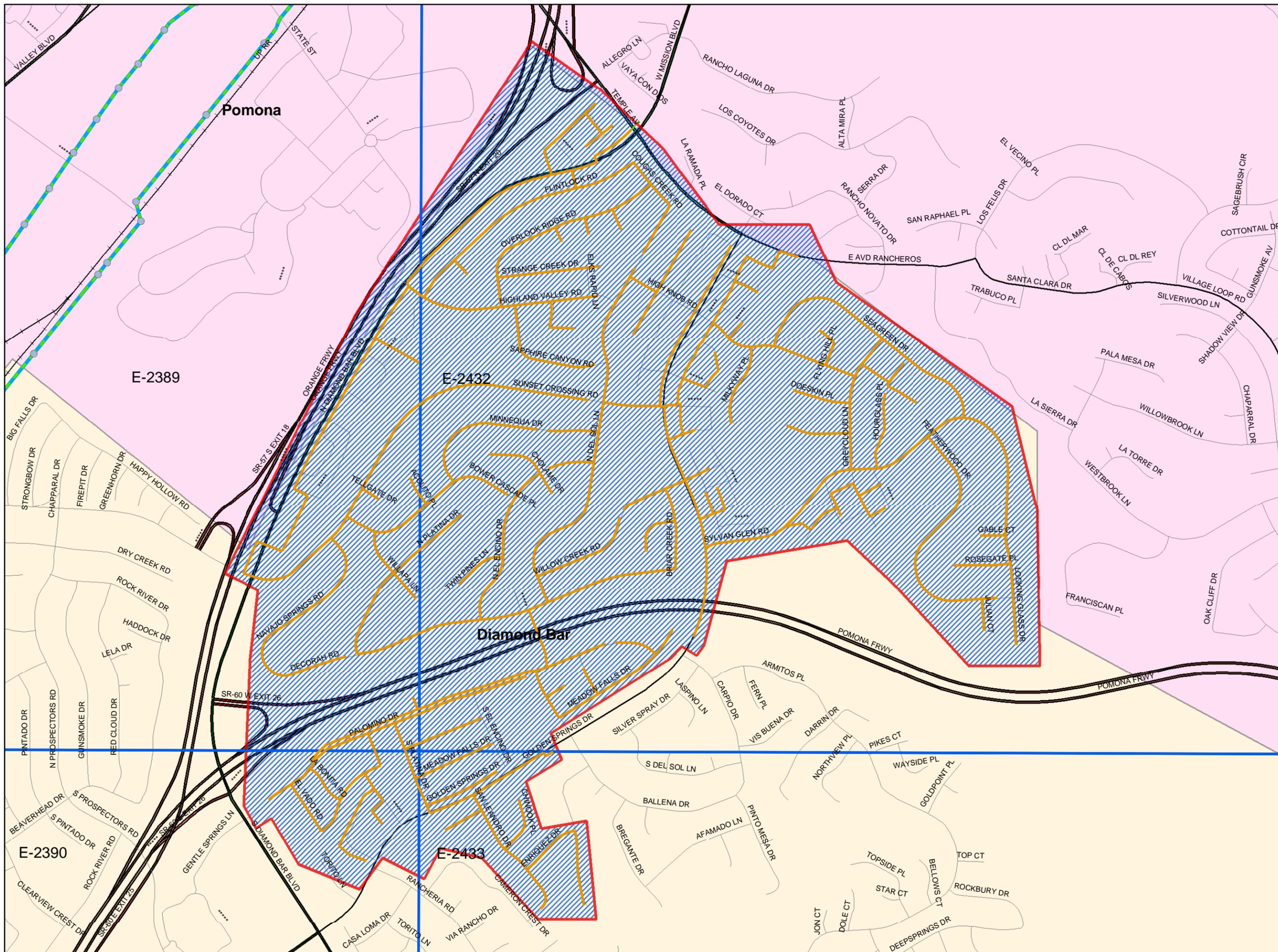
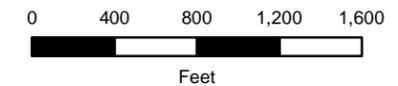
ENCLOSURE 1:

Project Overview Map

# OVERVIEW MAP

## CCTV PROJECT YOTV1011A

### CITY OF DIAMOND BAR



#### Legend

— 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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OCTOBER 2013

## ENCLOSURE 2:

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

**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF DIAMOND BAR (Y0TV1011A)**  
as of 09/01/2011

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5141	2389-0314	2390-0206	PALOMINO DR	Sag	Rodder (03/21/2013)
2	4J22	2432-0263	2432-0268	GOLDEN SPRINGS DR	Grease	Hydrojet (03/21/2013)
3	4F23	2432-0185	2432-0262	GOLDEN SPRINGS DR	Grease	Hydrojet(03/21/2013)
4	4500	2389-0262	2389-0263	ALLEY	Camera under water; deposit settled gravel; debris	Hydrojet (03/27/2013)
5	4336	2432-0111	2432-0112	DECORAH RD	Root ball (lateral)	Lateral notice will be sent to property owner.
6	4334	2390-0218	2390-0217	EASEMENT	Roots; root ball (lateral); grease	Hydrojet (03/26/2013; lateral notice will be sent to property owner.
7	4333	2389-0306	2389-0308	PALOMINO DR	Root ball (lateral)	Lateral notice will be sent to property owner.
8	4322	2433-0029	2433-0023	SAN LEANDRO DR	Root ball (lateral)	Lateral notice will be sent to property owner.
9	4238	2432-0147	2432-0164	PALOMINO DR	Roots; root ball (lateral)	Rodder (03/20/2013; lateral notice will be sent to property owner.
10	4235	2389-0294	2389-0293	DECORAH RD	Root ball (lateral)	Lateral notice will be sent to property owner.
11	4233	2389-0298	2389-0299	NAVAJO SPRING RD	Root ball (lateral)	Lateral notice will be sent to property owner.
12	4232	2432-0120	2432-0119	DEL SOL LN	Root ball (lateral)	Lateral notice will be sent to property owner.
13	4222	2433-0019	2433-0018	CHINOOK PL	Roots; root ball (lateral)	Hydrojet (03/22/2013)
14	4221	2432-0250	2432-0251	SYLVAN GLEN RD	Sag	Hydrojet (03/21/2013)
15	413C	2432-0111	2432-0110	DECORAH RD	Roots; root medium (lateral)	Rodder (03/20/2013); lateral notice will be sent to property owner.
16	413B	2432-0105	2432-0108	EL ENCINO DR	Roots; root ball (lateral)	Rodder (03/20/2013); lateral notice will be sent to property owner.
17	413A	2432-0119	2432-0118	DEL SOL LN	Root ball (lateral)	Lateral notice will be sent to property owner.
18	4138	2389-0298	2389-0297	NAVAJO SPRING RD	Roots; root ball (lateral); sag	Rodder (03/21/2013); lateral notice will be sent to property owner.
19	4136	2389-0307	2389-0309	PALOMINO DR	Root ball (lateral)	Lateral notice will be sent to property owner.
20	4136	2432-0155	2433-0002	MEADOW FALLS DR	Roots; root ball (lateral)	Rodder (03/20/2013); lateral notice will be sent to property owner.
21	4135	2432-0102	2432-0103	EL ENCINO DR	Roots; root medium (lateral)	Rodder (03/20/2013); lateral notice will be sent to property owner.
22	4135	2432-0215	2432-0214	HIGH KNOB RD	Grease	Hydrojet (03/21/2013)
23	4134	2389-0294	2389-0295	DECORAH RD	Root ball (lateral)	Lateral notice will be sent to property owner.
24	4134	2390-0208	2390-0203	EL VADO RD	Roots; root medium (lateral)	Rodder (03/21/2013)

**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF DIAMOND BAR (Y0TV1011A)**  
as of 09/01/2011

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
25	4134	2432-0183	2432-0184	GOLDEN SPRINGS DR	Small root	No action needed.
26	4133	2389-0273	2389-0272	EASEMENT	Roots; root ball (lateral)	Rodder (03/21/2013); lateral notice will be sent to property owner.
27	4132	2389-0275	2389-0276	SUNSET CROSSING RD	Roots; root ball (lateral)	Rodder (03/21/2013); lateral notice will be sent to property owner.
28	4132	2432-0087	2432-0102	EL ENCINO DR	Roots (medium, lateral)	Lateral notice will be sent to property owner.
29	4132	2432-0134	2432-0133	DECORAH RD	Medium root	Rodder (03/20/2013)
30	4131	2389-0263	2389-0262	ALLEY	Debris; deposit settled	Hydrojet (03/27/2013)
31	4131	2389-0289	2389-0286	PLATINA DR	Root ball (lateral)	Lateral notice will be sent to property owner.
32	4131	2390-0215	2390-0214	PROSPECT VALLEY DR	Root (medium, lateral)	Lateral notice will be sent to property owner.
33	4131	2432-0074	2432-0075	MINNEQUA DR	Small roots; root ball (lateral)	Lateral notice will be sent to property owner.
34	4131	2432-0099	2389-0279	ACOLITO PL	Root (fine, lateral)	No action needed.
35	4131	2432-0100	2389-0287	PLATINA DR	Grease; root ball (lateral)	Hydrojet (03/20/2013); lateral notice will be sent to property owner.
36	4131	2432-0106	2432-0105	TWIN PINES LN	Root ball (lateral)	Lateral notice will be sent to property owner.
37	4131	2432-0144	2432-0143	PALOMINO DR	Root (medium, lateral)	Later notice will be sent to property owner.
38	4131	2432-0220	2432-0221	SEAGREEN DR	Root (medium, lateral)	Later notice will be sent to property owner.
39	4131	2432-0233	2432-0226	EASEMENT	Sag	Hydrojet (03/27/2013)
40	4131	2432-0308	2432-0307	FEATHERWOOD DR	Sag	Hydrojet (03/21/2013)
41	412E	2432-0128	2432-0185	WILLOW CREEK RD	Grease	Hydrojet (03/20/2013)
42	412D	2432-0049	2432-0042	HIGHLAND VALLEY RD	Grease	Hydrojet (03/20/2013)
43	412B	2432-0210	2432-0209	MILKYWAY PL	Root ball (lateral)	Lateral notice will be sent to property owner.
44	4126	2390-0220	2390-0219	EASEMENT	Root medium (lateral)	Lateral notice will be sent to property owner.
45	4123	2432-0194	2432-0195	ALLEY	Grease	Hydrojet (03/22/2013)
46	4122	2432-0017	2432-0035	FLINTLOCK RD	Root ball (lateral)	Lateral notice will be sent to property owner.
47	4122	2433-0024	2433-0023	ENRIQUEZ DR	Grease	Hydrojet (03/22/2013)
48	4121	2389-0272	2389-0271	EASEMENT	Root ball (lateral)	Lateral notice will be sent to property owner.

**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF DIAMOND BAR (Y0TV1011A)**  
as of 09/01/2011

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
49	4121	2390-0222	2390-0223	EASEMENT	Root ball (lateral)	Lateral notice will be sent to property owner.
50	4121	2432-0047	2432-0048	STRANGE CREEK DR	Roots; root ball (lateral)	Hydrojet (03/20/2013); lateral notice will be sent to property owner.
51	4121	2432-0053	2432-0033	DEL SOL LN	Sag	Hydrojet (03/20/2013)
52	4121	2432-0073	2432-0084	MINNEQUA DR	Root ball (lateral)	Lateral notice will be sent to property owner.
53	4121	2432-0082	2432-0081	CHOLAME DR	Sag	Hydrojet (03/20/2013)
54	4121	2432-0150	2432-0149	PALOMINO DR	Root ball (lateral)	Lateral notice will be sent to property owner.
55	4121	2432-0196	2432-0200	ALLEY	Grease	Hydrojet (03/22/2013)
56	4121	2432-0228	2432-0226	GAZEBO CT	Root ball (lateral)	Lateral notice will be sent to property owner.
57	4121	2432-0309	2432-0308	FEATHERWOOD DR	Sag	Hydrojet(03/21/2013)
58	4121	2432-0318	2432-0319	ROSEGATE PL	Sag	Hydrojet (03/21/2013)
59	4100	2389-0254	2389-0273	HIGHLAND VALLEY RD	Camera underwater	Rodder (03/21/2013)
60	4100	2389-0271	2389-0316	EASEMENT	Root ball (lateral)	Lateral notice will be sent to property owner.
61	4100	2389-0280	2389-0281	BOWER CASCADE PL	Root ball (lateral)	Lateral notice will be sent to property owner.
62	4100	2390-0224	2389-0315	PLATINA DR	Sag	Hydrojet (03/27/2013)
63	4100	2432-0137	2432-0138	EASEMENT	Deposits attached encrustation	Rodder (03/20/2013)
64	3C21	2432-0108	2432-0109	EL ENCINO DR	Medium root	Rodder (03/20/2013)
65	3823	2432-0082	2432-0083	CHOLAME DR	Roots; root ball (lateral)_	Hydrojet (03/20/2013); lateral notice will be sent to property owner.
66	3821	2390-0219	2390-0218	EASEMENT	Grease; roots	Hydrojet (03/26/2013)
67	3721	2390-0216	2390-0215	PROSPECT VALLEY DR	Roots	Rodder (03/21/2013)
68	3721	2432-0140	2432-0139	PALOMINO DR	Roots	Hydrojet (03/21/2013)
69	3621	2390-0209	2390-0208	EL VADO RD	Roots; root medium (lateral)	Rodder (03/21/2013)
70	3521	2390-0216	2389-0310	BENCIA RD	Roots; root medium (lateral)	Hydrojet (03/26/2013); lateral notice will be sent to property owner.
71	3521	2432-0114	2432-0137	EASEMENT	Roots	Rodder (03/20/2013)
72	3521	2432-0131	2432-0130	TANFORAN LN	Medium root	Rodder (03/20/2013)

**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF DIAMOND BAR (Y0TV1011A)**  
as of 09/01/2011

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
73	3422	2389-0301	2389-0284	NAVAJO SPRING RD	Root ball (lateral)	Lateral notice will be sent to property owner.
74	3422	2432-0165	2432-0164	MEADOW FALLS DR	Root medium (lateral)	Lateral notice will be sent to property owner.
75	3421	2390-0221	2390-0217	EASEMENT	Alignment down; small roots	No action needed.
76	3421	2432-0148	2389-0306	PALOMINO DR	Root medium (lateral)	Lateral notice will be sent to property owner.
77	3421	2432-0148	2432-0149	PALOMINO DR	Medium root; root medium (lateral)	Hydrojet (03/21/2013); lateral notice will be sent to property owner.
78	3421	2432-0164	2432-0163	MEADOW FALLS DR	Roots; root medium (lateral); grease	Rodder (03/20/2013); lateral notice will be sent to property owner.
79	3421	2433-0006	2433-0005	GOLDEN SPRINGS DR	Roots	Rodder (03/20/2013)
80	3327	2389-0277	2389-0283	SUNSET CROSSING RD	Deposit attached; grease	Hydrojet (03/26/2013)
81	3321	2389-0292	2389-0291	DECORAH RD	Roots; root medium lateral	Rodder (03/21/2013); lateral notice will be sent to property owner.
82	3321	2390-0209	2390-0210	PROSPECT VALLEY DR	Roots; root medium lateral	Rodder (03/21/2013)
83	3321	2390-0214	2390-0211	PROSPECT VALLEY DR	Small root	No action needed.
84	3321	2390-0215	2390-0217	EASEMENT	Roots; sag	Hydrojet (03/26/2013)
85	3321	2432-0139	2389-0304	PALOMINO DR	Roots	Hydrojet (03/21/2013)
86	3321	2432-0152	2389-0315	PROSPECT VALLEY DR	Root medium (lateral)	Lateral notice will be sent to property owner.
87	3321	2432-0161	2432-0162	DEL SOL LN	Roots	Rodder (03/20/2013)
88	3321	2433-0021	2433-0020	CHINOOK PL	Small root	No action needed.
89	3221	2389-0312	2389-0309	PALOMINO DR	Root medium (lateral)	Lateral notice will be sent to property owner.
90	3221	2390-0207	2389-0313	PALOMINO DR	Root medium (lateral)	Lateral notice will be sent to property owner.
91	3221	2390-0211	2390-0210	PROSPECT VALLEY DR	Roots; root medium (lateral)	Rodder (03/21/2013)
92	3221	2432-0110	2389-0292	DECORAH RD	Medium root	Rodder (03/20/2013)
93	3221	2432-0113	2432-0114	DECORAH RD	Root medium (lateral)	Lateral notice will be sent to property owner.
94	3221	2432-0182	2432-0183	GOLDEN SPRINGS DR	Medium roots	Hydrojet (03/21/2013)
95	3221	2432-0215	2432-0234	HIGH KNOB RD	Sag	Hydrojet (03/21/2013)
96	3200	2432-0098	2432-0121	DEL SOL LN	Root ball lateral; deposit gravel	Hydrojet (03/20/2013); lateral notice will be sent to property owner.

**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF DIAMOND BAR (Y0TV1011A)**  
as of 09/01/2011

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
97	312G	2432-0022	2432-0021	FLINTLOCK RD	Deposit attached	Hydrojet (03/20/2013)
98	312F	2432-0266	2432-0267	EASEMENT	Grease	Hydrojet (03/22/2013)
99	312C	2432-0214	2432-0213	HIGH KNOB RD	Deposit attached encrustation; infiltration dripper	Hydrojet (03/21/2013)
100	312A	2432-0095	2432-0180	SUNSET CROSSING RD	Grease; root medium lateral	Hydrojet (03/22/2013); lateral notice will be sent to property owner.
101	3125	2432-0184	2432-0185	GOLDEN SPRINGS DR	Grease	Hydrojet (03/21/2013)
102	3123	2432-0124	2432-0123	WILLOW CREEK RD	Grease	Hydrojet (03/20/2013)
103	3122	2389-0284	2389-0302	SUNSET CROSSING RD	Root medium (lateral)	Lateral notice will be sent to property owner.
104	3122	2389-0302	2389-0303	SUNSET CROSSING RD	Deposit attached; grease in lateral	Hydrojet (03/26/2013)
105	3122	2432-0018	2432-0017	FLINTLOCK RD	Root medium (lateral)	Lateral notice will be sent to property owner.
106	3122	2432-0114	2432-0115	DECORAH RD	Sag	Hydrojet (04/02/2013)
107	3122	2432-0161	2432-0163	MEADOW FALLS DR	Root small (lateral)	No action needed.
108	3122	2432-0187	2432-0186	ALLEY	Grease	Hydrojet (03/22/2013)
109	3121	2389-0285	2389-0281	WILLAPA LN	Root ball (lateral)	Lateral notice will be sent to property owner.
110	3121	2389-0290	2389-0289	PLATINA DR	Root medium (lateral)	Lateral notice will be sent to property owner.
111	3121	2389-0290	2389-0291	PLATINA DR	Root medium (lateral)	Lateral notice will be sent to property owner.
112	3121	2389-0311	2389-0314	PALOMINO DR	Root medium (lateral)	Lateral notice will be sent to property owner.
113	3121	2389-0313	2389-0312	PALOMINO DR	Root medium (lateral)	Lateral notice will be sent to property owner.
114	3121	2432-0015	2432-0016	DIAMOND BAR BV	Sag	Hydrojet (03/20/2013)
115	3121	2432-0024	2432-0045	OVERLOOK RIDGE RD	Root ball (lateral)	Lateral notice will be sent to property owner.
116	3121	2432-0074	2432-0073	MINNEQUA DR	Root small (lateral)	No action needed.
117	3121	2432-0076	2432-0075	MINNEQUA DR	Root small (lateral)	No action needed.
118	3121	2432-0082	2432-0087	EL ENCINO DR	Heavy grease	Hydrojet (03/20/2013)
119	3121	2432-0085	2432-0084	BOWER CAS PL	Small root	No action needed.
120	3121	2432-0086	2432-0085	BOWER CAS PL	Root small (lateral)	No action needed.

**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF DIAMOND BAR (Y0TV1011A)**  
as of 09/01/2011

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
121	3121	2432-0104	2432-0105	EL ENCINO DR	Root ball (lateral)	Lateral notice will be sent to property owner.
122	3121	2432-0121	2432-0120	DEL SOL LN	Small root	No action needed.
123	3121	2432-0129	2432-0128	BRIAR CREEK RD	Root ball (lateral)	Lateral notice will be sent to property owner.
124	3121	2432-0141	2432-0140	PALOMINO DR	Minor sag	Hydrojet (03/21/2013)
125	3121	2432-0142	2432-0141	PALOMINO DR	Root medium (lateral)	Hydrojet (03/21/2013)
126	3121	2432-0146	2432-0147	PALOMINO DR	Root small (lateral)	No action needed.
127	3121	2432-0150	2432-0151	PALOMINO DR	Root small (lateral)	No action needed.
128	3121	2432-0206	2432-0193	ALLEY	Medium roots	Hydrojet (03/22/2013)
129	3121	2432-0316	2432-0317	GABLE CT	Infiltration dripper	No action needed.
130	3121	2433-0004	2433-0003	GOLDEN SPRINGS DR	Small root	No action needed.
131	3121	2433-0009	2433-0008	GOLDEN SPRINGS DR	Medium root	Rodder (03/20/2013)
132	3121	2433-0017	2433-0014	SAN LEANDRO DR	Small root	No action needed.
133	3121	2433-0020	2433-0019	CHINOOK PL	Grease	Hydrojet (03/22/2013)
134	3100	2389-0262	2389-0261	DIAMOND BAR BV	Deposit settled	Hydrojet (03/27/2013)
135	3100	2389-0268	2389-0267	EASEMENT	Grease	Rodder (03/21/2013)
136	3100	2389-0268A	2389-0267	EASEMENT	Roots	Rodder (03/21/2013)
137	3100	2432-0011	2432-0012	DIAMOND BAR BV	Grease	Hydrojet (03/20/2013)
138	3100	2432-0118	2432-0117	DEL SOL LN	Root ball (lateral)	Lateral notice will be sent to property owner.
139	3100	2432-0145	2432-0144	PALOMINO DR	Root ball (lateral)	Lateral notice will be sent to property owner.

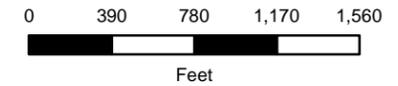
# ENCLOSURE 2

## CCTV PROJECT

### YOTV1011A

## DIAMOND BAR

### QUICK MAINTENANCE RATING (QMR)



### Legend

#### SMD Sanitary Sewers

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

#### SMD Manholes

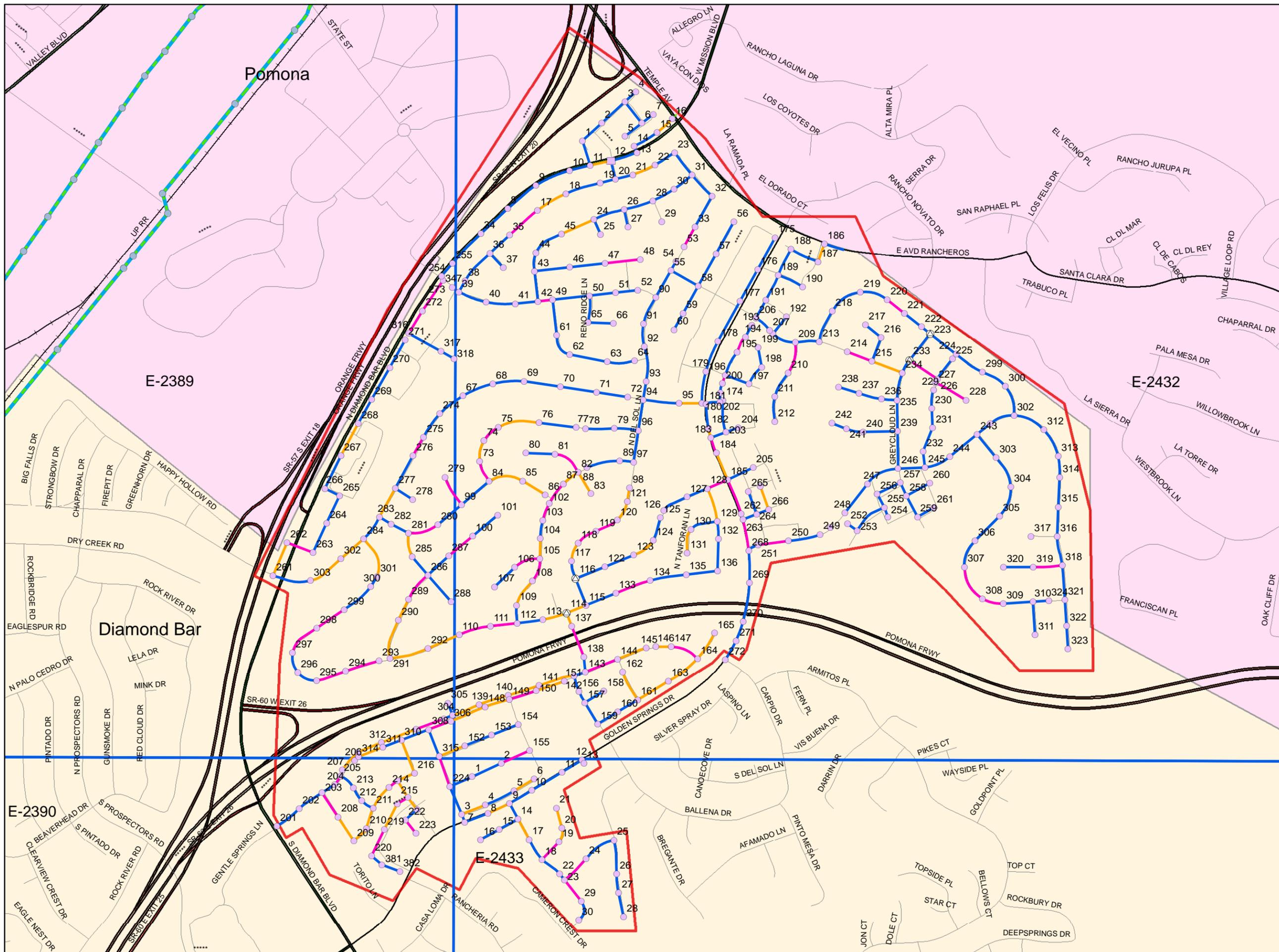
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

#### Maintained by Others:

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

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OCTOBER 2013



**ENCLOSURE 2**  
**HIGH WATER LEVELS**  
**CITY OF DIAMOND BAR (Y0TV1011A)**  
as of 09/01/2011

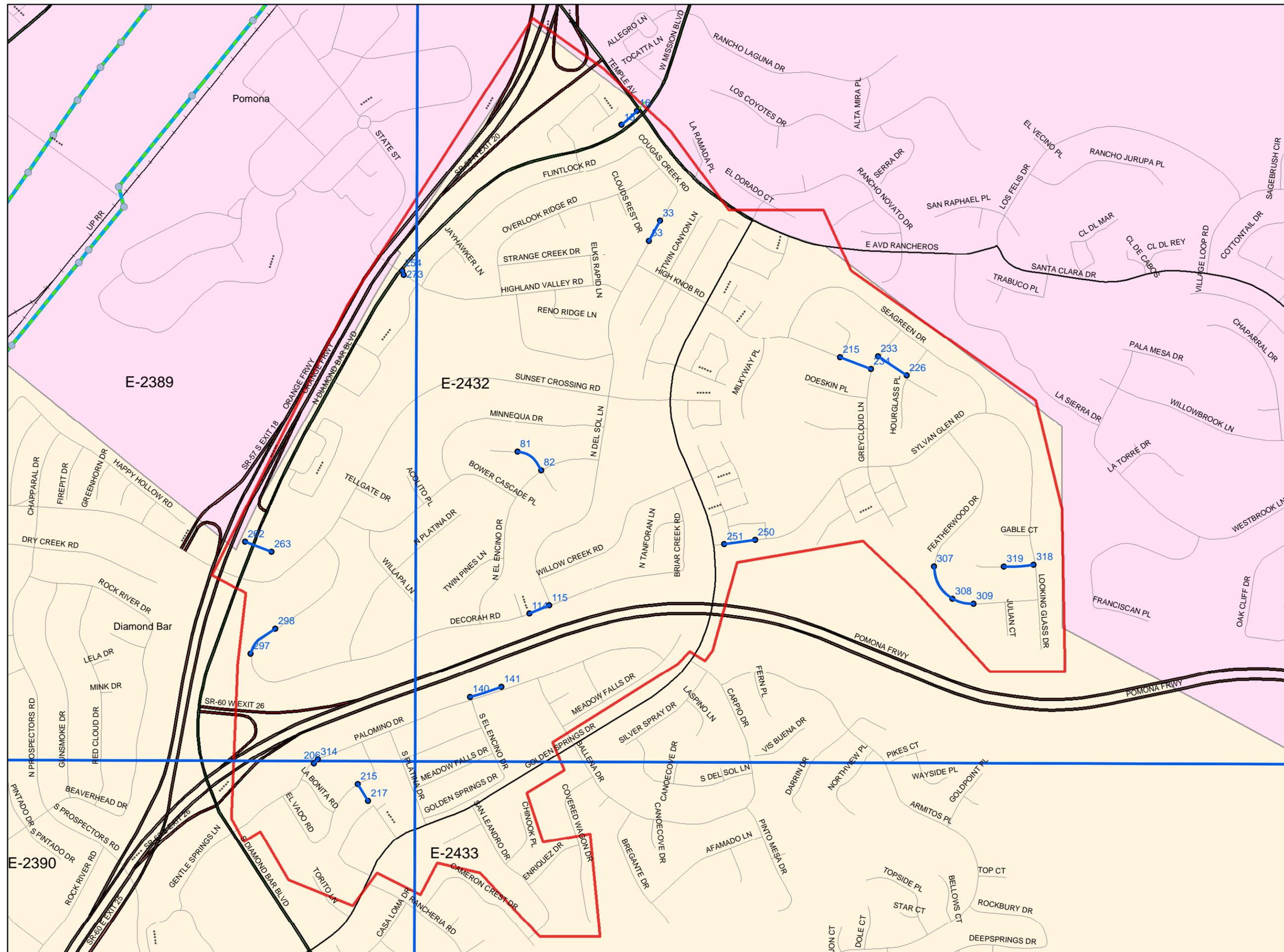
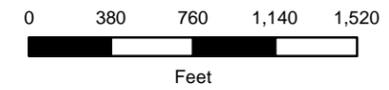
ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	PERCENT CAPACITY: LOCATION
1	5141	2389-0314	2390-0206	PALOMINO DR	Sag	(50% - 80%): 55' - 150'
2	4500	2389-0262	2389-0263	ALLEY	Camera under water (due to heavy deposits and gravels)	(40% - 80%): start MH - end MH
3	4221	2432-0250	2432-0251	SYLVAN GLEN RD	Sag (due to large offset)	(50% - 80%): 235' - 245'
4	4138	2389-0298	2389-0297	NAVAJO SPRING RD	Sag	(30% - 60%): 141' - 173'
5	4131	2432-0233	2432-0226	EASEMENT	Sag (due to debris in the line)	(50% - 80%): 252' - 290'
6	4131	2432-0308	2432-0307	FEATHERWOOD DR	Sag	(40% - 50%): 0' - 17'
7	4121	2432-0053	2432-0033	DEL SOL LN	Sag (due to change in alignment)	(40% - 50%): 70' - 80'
8	4121	2432-0082	2432-0081	CHOLAME DR	Sag (due to debris in the line)	(40% - 50%): 98' - 130'
9	4121	2432-0309	2432-0308	FEATHERWOOD DR	Sag	(40% - 50%): 23' - 30'
10	4121	2432-0318	2432-0319	ROSEGATE PL	Sag	(50% - 80%): 198' - 220'
11	4100	2389-0254	2389-0273	HIGHLAND VALLEY RD	Camera under water: at MH	Camera under water: at MH
12	3321	2390-0215	2390-0217	EASEMENT	Sag	(40% - 50%): 145' - end MH
13	3221	2432-0215	2432-0234	HIGH KNOB RD	Sag	(40% - 50%): 0' - 70'
14	3122	2432-0114	2432-0115	DECORAH RD	Sag	(35% - 50%): 15' - 35'; 170' - end MH
15	3121	2432-0015	2432-0016	DIAMOND BAR BV	Sag	(40% - 50%): 155' - 175'
16	3121	2432-0141	2432-0140	PALOMINO DR	Minor sag	Minor sag

# ENCLOSURE 2

## CCTV PROJECT YOTV1011A

### DIAMOND BAR

#### HIGH WATER LEVEL



#### Legend

— HIGH WATER LEVEL

#### 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 2013

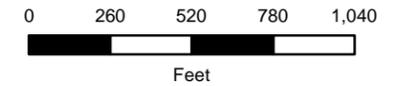
**ENCLOSURE 2**  
**INFILTRATION**  
**CITY OF DIAMOND BAR (Y0TV1011A)**  
as of 09/01/2011

<b>ITEM NO.</b>	<b>QMR</b>	<b>START MH</b>	<b>END MH</b>	<b>STREET</b>	<b>OBSERVATION</b>	<b>PROPOSED CORRECTIVE METHOD</b>	<b>LENGTH OF REPAIR (FT)</b>
1	312C	2432-0214	2432-0213	HIGH KNOB RD	Infiltration dripper: 160' through fractures	Lining: MH to MH	229
2	3121	2432-0316	2432-0317	GABLE CT	Infiltration dripper: 266'	Infiltration is minimum. No action needed.	

# ENCLOSURE 2 CCTV PROJECT YOTV1011A

## DIAMOND BAR

### INFILTRATION



### Legend

— INFILTRATION

#### 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

— SR-57 SEVIT 18

— SR-60 W EXIT 26

— N DIAMOND BAR BLVD

— POMONA FRWY

— STATE ST

— WESTBROOK LN

— FRANCISCAN PL

— JULIAN CT

— LOOKING GLASS DR

— FEATHERWOOD DR

— ROSEGATE PL

— SYLVAN GLEN RD

— DECORAH RD

— BRIAR CREEK RD

— N TANFORAN LN

— WILLOW CREEK RD

— CHOLAME DR

— MINNEQUA DR

— SUNSET CROSSING RD

— SAPPHIRE CANYON RD

— RENO RIDGE LN

— HIGHLAND VALLEY RD

— STRANGE CREEK DR

— FLINTLOCK RD

— OVERLOOK RIDGE RD

— CLOUDS REST DR

— LA SIERRA DR

— PORTOLA CT

— MONTE DIABLO LN

— SAN PABLO CT

— RANCHO NOVATO DR

— EL DORADO CT

— TEMPLE AV

— LA SIERRA DR

— SAN RAPHAEL PL

— LA COSTA PL

— LOS FELIS DR

— RANCHO JURUPA PL

— CL DE RODEO

— CL DE MAR

— SANTA CLARA DR

— TRABUCO PL

— SEAGREEN DR

— HOURSGLASS PL

— GAZEBO CT

— FLYING HILL PL

— DOESKIN PL

— MILKYWAY PL

— GOLDEN SPRINGS DR

— HIGH KNOB RD

— TWIN CANYON LN

— EKS RAPID LN

— N DEL SOL LN

— N PLATINA DR

— BOWER CASCADE PL

— ACOIT PL

— TELLGATE DR

— NAVAJO SPRINGS RD

— WILLAPA LN

— TWIN PINES LN

— N EL ENCINO DR

— MEADOW FALLS DR

— S DEL SOL LN

— LAS PINO LN

— CARPIO DR

— FERN PL

— VIS BUENA DR

— NORTHVIEW PL

— DARRIN DR

— PIKES CT

— ARMITOS PL

— WAYSIDE PL

— GOLDPOINT PL

— COVERED WAGON DR

— S DEL SOL LN

— LAS PINO LN

— SILVER SPRAY DR

— BALLENA DR

— PALOMINO DR

— BENICIA DR

— S PLATINA DR

— PROSPECT VALLEY DR

— MEADOW FALLS DR

— S EL ENCINO DR

— E-2389

— E-2432

— E-2390

— E-2433

— POMO

— DIAMOND BAR

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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

{Date}

IN REPLY PLEASE

REFER TO FILE:

SM-1

Current Property Owner

Dear Property Owner:

### 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 courtesy notice informing you that the sewer lateral serving the property located at XXXX, requires maintenance per **County Code 20.24.080 Maintenance of Sewer Laterals.**

***"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 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 (XXX) XXX-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 Mr. Fernando Villaluna, Sewer Maintenance Division, at (626) 300-3380 or [fvillaluna@dpw.lacounty.gov](mailto: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

RAJESH PATEL  
Assistant Deputy Director  
Sewer Maintenance Division

XXXX

Enc.

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 the 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
- Rehabilitation Projects Map

**ENCLOSURE 3**  
**QUICK STRUCTURAL RATING REPORT PRIORITY LIST**  
**CITY OF DIAMOND BAR (Y0TV1011A)**  
**AS OF 09/01/2011**

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Action	Length of Repair (FT)
1	5221	2432-0215	2432-0214	HIGH KNOB RD	Broken/fractures: 129', 274'	Point Repair: 129', 274'	
2	5200	2389-0274	2389-0275	SUNSET CROSSING RD	Broken with visible void: 84'	Emergency Point Repair (completed: 02/22/13)	
3	5142	2432-0137	2432-0138	EASEMENT	Broken/fractures: 44' - 47'; fractures: 89', 93', 105', 149', 275'	Lining: MH to MH	278
4	5141	2432-0114	2432-0137	EASEMENT	Fractures: 52', 77', 128'	Lining: MH to MH	156
5	5131	2389-0272	2389-0316	EASEMENT	Fracture: 193'; broken patch: 233' - 238'	Structural integrity intact. No action needed.	
6	5121	2389-0269	2389-0268	EASEMENT	Fracture: 245'; broken/fracture: 308'	Structural integrity intact. No action needed.	
7	5100	2432-0157	2432-0159	BALLENA DR	Broken/fractures: 209'	Point Repair (sleeve)	
8	5100	2432-0142	2432-0156	BALLENA DR	Broken/fracture: 55'	Structural integrity intact. No action needed.	
9	5100	2432-0250	2432-0251	SKLVAN GLEN RD	Large joint offset: 235'	Point Repair: 235'	
10	4639	2432-0145	2432-0144	PALOMINO DR	Fractures/cracks: 62', 72', 85', 89', 105', 122', 142', 145', 148', 169', 176'	Lining: MH to MH	276
11	4531	2389-0286	2389-0285	WILLAPA LN	Fractures: 122', 132', 156', 166', 176'	Structural integrity intact. No action needed.	
12	4435	2432-0160	2432-0159	MEADOW FALLS DR	Fractures: 9', 59', 83', 110', 140', 147', 155'	Lining: MH to MH	209
13	4335	2389-0306	2389-0308	PALOMINO DR	Fracture: 87', 94', 97', 151', 194', 309'	Lining: MH to MH	309
14	4332	2432-0161	2432-0160	MEADOW FALLS DR	Fractures: 17', 70', 172', 222'	Lining: MH to MH	225
15	4233	2432-0142	2432-0141	PALOMINO DR	Fractures/cracks: 5', 224', 260', 273', 331', 344'	Lining: MH to MH	350
16	4232	2389-0273	2389-0272	EASEMENT	Fracture: 88', 93', 287'; broken/fractures (chimney): 293'	Structural integrity intact. No action needed.	
17	4231	2432-0017	2432-0035	FLINTLOCK RD	Fractures: 154', 316' - 320'	Structural integrity intact. No action needed.	
18	4231	2432-0098	2432-0121	DEL SOL LN	Fracture: 172', 177', 188'	Structural integrity intact. No action needed.	
19	4231	2389-0270	2389-0269	EASEMENT	Fracture: 64', 127', 205'	Structural integrity intact. No action needed.	
20	4211	2432-0096	2432-0094	DEL SOL LN	Fractures: 272', 277'	Structural integrity intact. No action needed.	
21	4200	2432-0099	2389-0280	BOWER CASCADE PL	Fractures: 267', 333'	Structural integrity intact. No action needed.	
22	4200	2432-0053	2432-0033	DEL SOL LN	Fractures: 144' - 148'; sag: 75'	Point repair: 75'	
23	4200	2432-0146	2432-0147	PALOMINO DR	Fracture: 4', 135'	Structural integrity intact. No action needed.	
24	4137	2433-0001	2390-0224	MEADOW FALLS DR	Fracture: 2', 26', 89', 168', 175'	Structural integrity intact. No action needed.	
25	4136	2390-0216	2389-0310	BENCIA RD	Fracture: 129', 141', 168'	Lining: MH to MH	325

**ENCLOSURE 3**  
**QUICK STRUCTURAL RATING REPORT PRIORITY LIST**  
**CITY OF DIAMOND BAR (Y0TV1011A)**  
**AS OF 09/01/2011**

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Action	Length of Repair (FT)
26	4135	2432-0138	2432-0143	EASEMENT	Fracture: 2', 22', 130'	Lining: MH to MH	161
27	4134	2432-0141	2432-0140	PALOMINO DR	Fracture: 57', 86', 137', 195'	Structural integrity intact. No action needed.	
28	4132	2432-0139	2389-0304	PALOMINO DR	Fracture: 181', 287', 295'	Structural integrity intact. No action needed.	
29	4131	2390-0213	2390-0205	LA BONITA RD	Crack: 130'	Structural integrity intact. No action needed.	
30	4131	2390-0215	2390-0214	PROSPECT VALLEY DR	Fracture: 25'	Structural integrity intact. No action needed.	
31	4121	2390-0217	2390-0221	EASEMENT	Fracture with joint offset: 1' (Reversal inspection was MSA due to alignment)	Structural integrity intact. No action needed.	
32	4111	2432-0061	2432-0049	SAPPHIRE CANYON RD	Fracture: 144'	Structural integrity intact. No action needed.	
33	4111	2432-0118	2432-0117	DEL SOL LN	Fractures: 196'	Lining: MH to MH	200
34	4100	2432-0019	2432-0018	FLINTLOCK RD	Fracture: 195'	Structural integrity intact. No action needed.	
35	4100	2432-0047	2432-0046	STRANGE CREEK DR	Fracture: 51'	Structural integrity intact. No action needed.	
36	4100	2432-0101	2432-0100	PLATINA DR	Fracture: 332'	Structural integrity intact. No action needed.	
37	4100	2389-0290	2389-0289	PLATINA DR	Fracture: 231'	Structural integrity intact. No action needed.	
38	4100	2389-0303	2389-0261	SUNSET CROSSING RD	Fracture: 42'	Structural integrity intact. No action needed.	
39	4100	2432-0116	2432-0115	DEL SOL LN	Fracture: 131'	Structural integrity intact. No action needed.	
40	4100	2432-0133	2432-0115	DECORAH RD	Fractures: 306'	Structural integrity intact. No action needed.	
41	4100	2432-0220	2432-0221	SEAGREEN DR	Fractures: 178'	Structural integrity intact. No action needed.	
42	4100	2432-0300	2432-0299	SEAGREEN DR	Fracture: 241'	Structural integrity intact. No action needed.	
43	4100	2432-0312	2432-0302	LOOKING GLASS RD	Fractures: 310'	Structural integrity intact. No action needed.	
44	4100	2432-0214	2432-0213	HIGH KNOB RD	Fractures/infiltration: 163'	Lining: MH to MH	229
45	4100	2432-0215	2432-0234	HIGH KNOB RD	Fractures: 4'	Structural integrity intact. No action needed.	
46	4100	2432-0269	2432-0270	GOLDEN SPRINGS DR	Fracture: 305'	Structural integrity intact. No action needed.	
47	4100	2432-0155	2433-0002	MEADOW FALLS DR	Fracture: 209'	Structural integrity intact. No action needed.	
48	4100	2432-0164	2432-0163	MEADOW FALLS DR	Fracture: 338'	Structural integrity intact. No action needed.	
49	4100	2432-0148	2389-0306	PALOMINO DR	Cracks: 87', 91'	Structural integrity intact. No action needed.	
50	4100	2389-0304	2389-0307	PALOMINO DR	Fracture: 4'	Structural integrity intact. No action needed.	

ENCLOSURE 3  
 QUICK STRUCTURAL RATING REPORT PRIORITY LIST  
 CITY OF DIAMOND BAR (Y0TV1011A)  
 AS OF 09/01/2011

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Action	Length of Repair (FT)
51	4100	2432-0012	2432-0013	DIAMOND BAR BV	Fractures: 56'	Structural integrity intact. No action needed.	
52	4100	2432-0009	2432-0008	DIAMOND BAR BV	Fractures: 241'	Lining: MH to MH	345

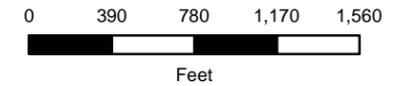
# ENCLOSURE 3

## CCTV PROJECT

### YOTV1011A

## DIAMOND BAR

### QUICK STRUCTURAL RATING (QSR)



### Legend

#### SMD Sanitary Sewers

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

#### SMD Manholes

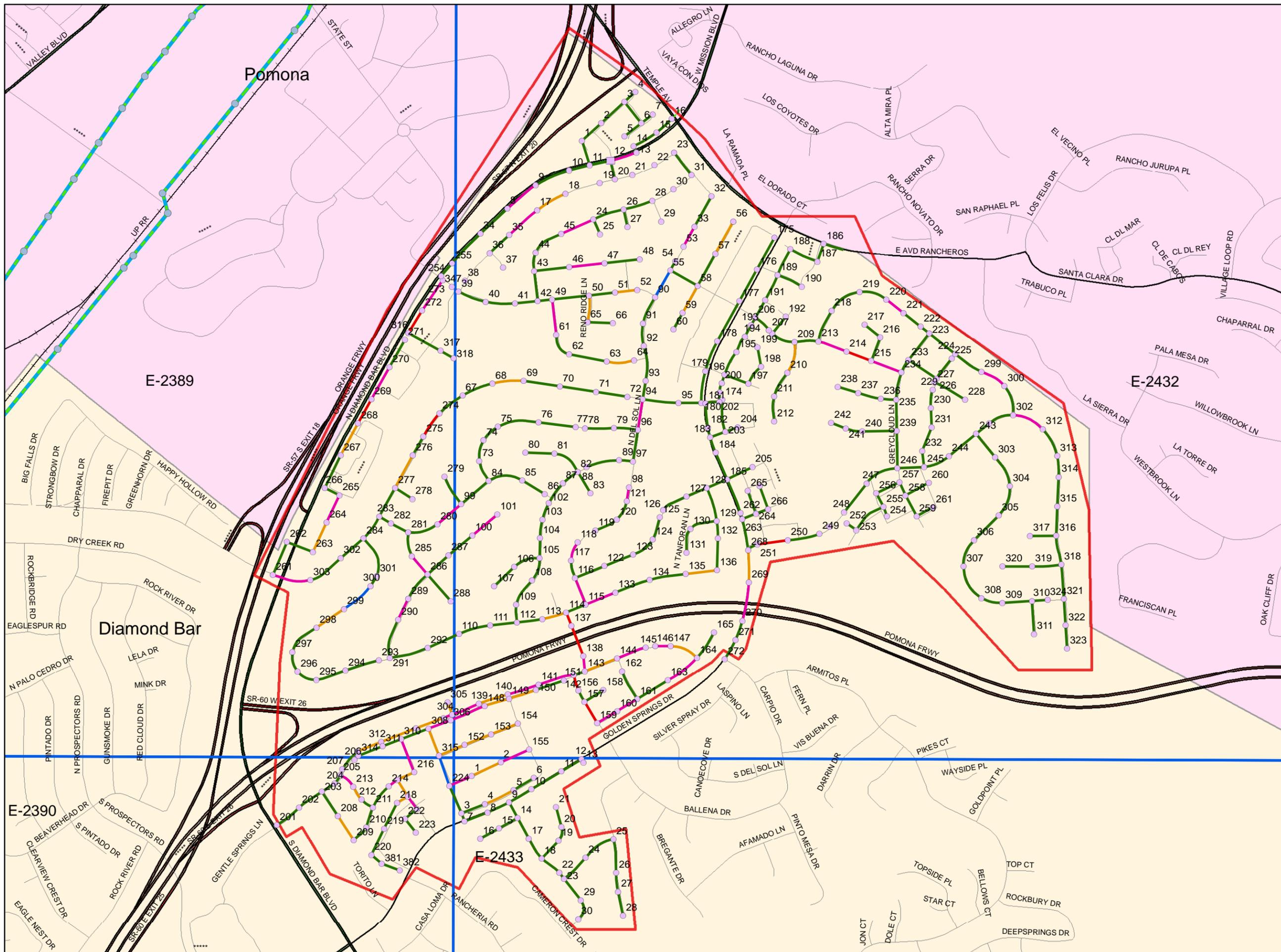
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

#### Maintained by Others:

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

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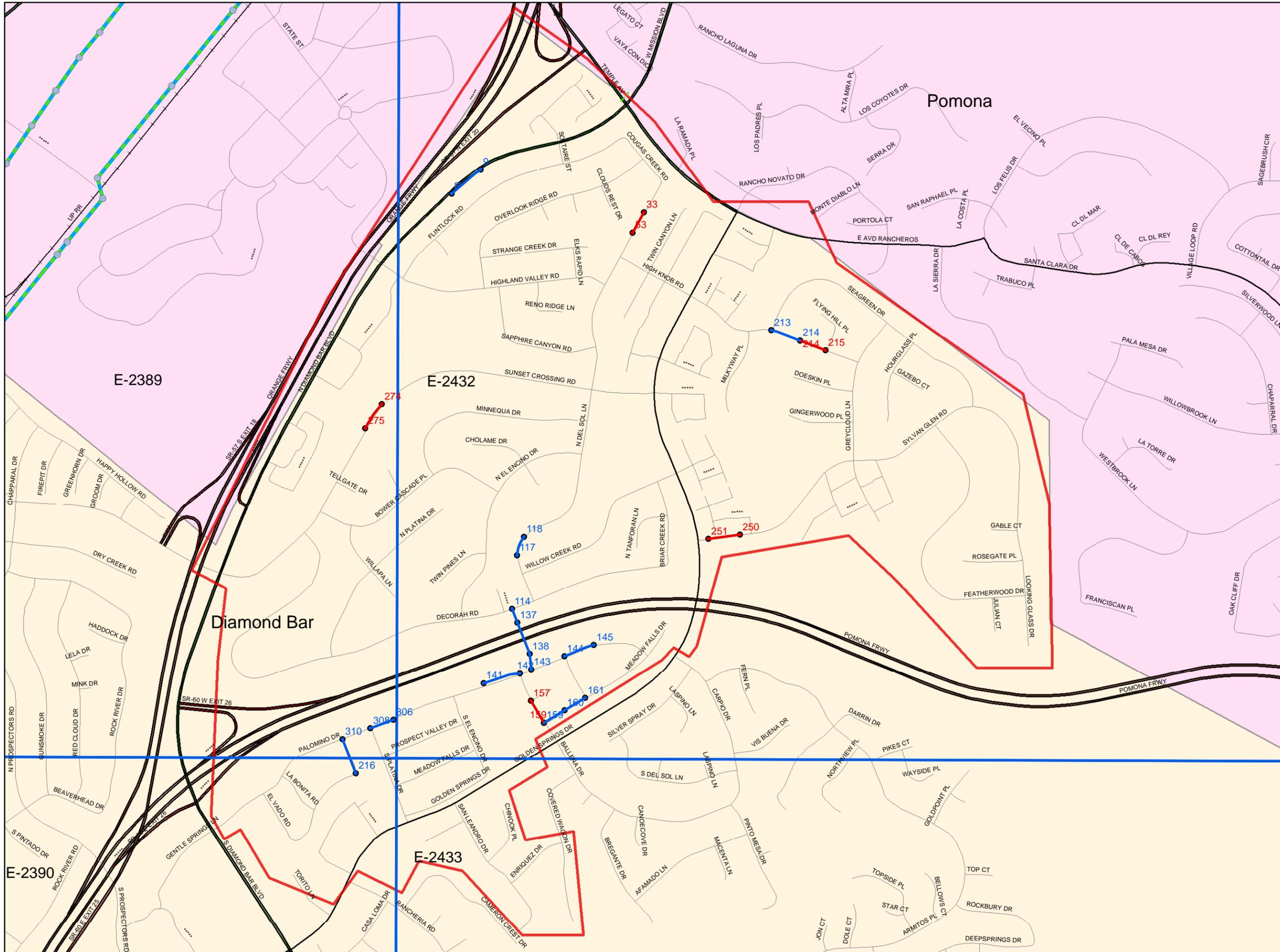
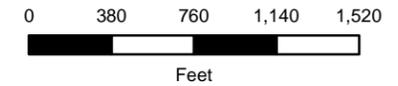
OCTOBER 2013



# ENCLOSURE 3 CCTV PROJECT YOTV1011A

## DIAMOND BAR

### LINING & POINT REPAIR



#### Legend

- LINING
- POINT REPAIR
- 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
- CCTV PROJECT AREA

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## ENCLOSURE 4:

Infrastructure Inspection Reports  
for Grades 4 and 5



## Inspection report

Date: <b>20110304</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>306</b>	PSR: <b>85616</b>
Total Pipe Length: <b>252</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/04/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>HIGH KNOB RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0215</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0214</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>311.11 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>252</b>
Drain. Area: <b>0214/2432-0215/2432</b>	Lining Method:
	Category:

Remark:: **BROKEN**

1:775	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2432-0215	00:00:00	18	
	0.00	Water Level, Sag in pipe, 50 % of cross sectional area	00:00:31		M 3
	0.00	Water Mark, 50 % of cross sectional area	00:00:34		M 3
	19.94	Water Level, 5 % of cross sectional area	00:01:15		M 2
	43.99	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:01:53	19	
	68.53	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:02:36	20	
	129.86	Broken, from 12 to 12 o'clock, within 8 inch: YES	00:04:00	21, b	S 4
	130.16	Roots Medium Joint, from 12 to 03 o'clock, 10 %, within 8 inch: YES	00:04:23	23, b	
	131.76	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES	00:04:42	25	
	131.86	Roots Medium Joint, from 08 to 01 o'clock, 20 %, within 8 inch: YES	00:04:58	26, b	
	196.29	Roots Medium Joint, from 10 to 11 o'clock, 5 %, within 8 inch: YES	00:06:36	28, b	
	200.29	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES	00:06:55	30	
	201.10	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:07:08	31, b	
	274.54	Broken, from 12 to 12 o'clock, within 8 inch: YES	00:08:55	33, b	S 4
	274.64	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES	00:09:12	35	
	277.75	Fracture Circumferential, from 12 to 12 o'clock, within 8 inch: YES	00:09:31	36, b	S 2
	277.75	Infiltration Runner, from 01 to 04 o'clock, within 8 inch: NO	00:09:44	38, b	M 4
	308.91	Joint Offset Medium	00:10:40	40, b	S 1
	311.11	Downstream Manhole, Survey Ends 2432-0214	00:11:14	42	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4221	4132	11	12	23	2.75	3	2.88



## Inspection report

Date: <b>20110218</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J. Salas</b>	section number: <b>135</b>	PSR: <b>88040</b>
Total Pipe Length: <b>279</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/18/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2389</b>

Street: <b>SUNSET CROSSING RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2389-0274</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2389-0275</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>295.16 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>0274/2389-0275/2389</b>	Lining Method:
	Category:

Remark:: **BROKEN PIPE**

1:725	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2389-0274		80	
	<u>0.00</u>	Water Level, 5 % of cross sectional area			M 2
	<u>0.00</u>	Water Mark, 5 % of cross sectional area			M 2
	<u>23.59</u>	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:01:17	81	
	<u>51.40</u>	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:02:10	82	
	<u>79.31</u>	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:03:04	83	
	<u>84.33</u>	Hole Soil Visible, from 09 to 03 o'clock, within 8 inch: YES	00:03:34	84, b	S 5
	<u>84.33</u>	Broken Void Visible, from 12 to 12 o'clock, within 8 inch: YES	00:03:41	86, b	S 5
	<u>102.30</u>	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:04:27	88	
	<u>114.85</u>	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:04:57	89	
	<u>137.64</u>	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:05:41	90	
	<u>160.43</u>	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:06:38	91	
	<u>198.18</u>	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:07:40	92	
	<u>225.99</u>	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:08:45	93	
	<u>254.00</u>	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:09:43	94	
	<u>295.16</u>	Downstream Manhole, Survey Ends 2389-0275	00:11:02	95	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5200	2200	10	4	14	5	2	3.5



## Inspection report

Date: <b>20110321</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>789</b>	PSR: <b>85654</b>
Total Pipe Length: <b>273</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/21/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>EASEMENT</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0137</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0138</b>
Location Code: <b>D Easement/Right of Way</b>	Tape/Media #:	pipe length: <b>277.34 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>273</b>
Drain. Area: <b>0137/2432-0138/2432</b>	Lining Method:
	Category:

Remark:: **BROKEN PIPE**

1:700	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2432-0137	00:00:00	154	
	0.00	Water Level, 10 % of cross sectional area	00:00:00		M 2
	0.00	Water Mark, 10 % of cross sectional area	00:00:00		M 2
	21.34	Roots Fine Joint, from 07 to 09 o'clock, within 8 inch: YES	00:00:57	155, b	
	43.99	Broken Soil Visible, from 12 to 12 o'clock, within 8 inch: YES	00:02:09	157, b	S 5
	44.59	Roots Fine Barrell, from 01 to 03 o'clock, within 8 inch: YES	00:02:34	159, b	M 2
	53.91	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:03:03	161, b	M 4
	57.71	Roots Fine Joint, from 10 to 03 o'clock, within 8 inch: YES	00:03:23	163, b	
	67.93	Deposits Attached Encrustation, 5 % of cross sectional area, from 08 to 11 o'clock, within 8 inch: YES	00:03:47	165, b	M 2
	81.46	Deposits Attached Encrustation, 10 % of cross sectional area, from 01 to 04 o'clock, within 8 inch: YES	00:04:17	167, b	M 2
	103.40	Infiltration Runner, from 04 to 06 o'clock, within 8 inch: YES	00:04:57	169, b	M 4
	105.21	Deposits Attached Encrustation, 5 % of cross sectional area, from 08 to 11 o'clock, within 8 inch: YES	00:05:18	171, b	M 2
	105.41	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: NO	00:05:52	173, b	S 1
	149.09	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:07:30	175, b	S 4
	172.04	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: NO	00:08:07	177, b	S 1
	275.64	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:10:28	179, b	S 4
	277.34	Downstream Manhole, Survey Ends 2432-0138	00:10:54	181	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5142	4226	15	20	35	3	2.5	2.69



## Inspection report

Date: <b>20110228</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A. OBRIEN</b>	section number: <b>233</b>	PSR: <b>85747</b>
Total Pipe Length: <b>157</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/28/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>EASEMENT</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0114</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0137</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>156.16 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>157</b>
Drain. Area: <b>0114/2432-0137/2432</b>	Lining Method:
	Category:

Remark:: **NONE**

1:400	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2432-0114		637	
	0.00	Water Level, 5 % of cross sectional area	00:00:16		M 2
	0.00	Water Mark, 10 % of cross sectional area	00:00:18		M 2
	52.92	Fracture Multiple, from 01 to 04 o'clock, within 8 inch: YES	00:01:40	638, b	S 4
	76.42	Roots Medium Joint, from 12 to 12 o'clock, 10 %, within 8 inch: YES	00:02:24	640, b	
	77.63	Broken, from 08 to 04 o'clock, within 8 inch: YES	00:03:11	642, b	S 5
	86.77	Roots Medium Joint, from 03 to 09 o'clock, 5 %, within 8 inch: YES	00:03:36	644, b	
	91.79	Roots Medium Joint, from 12 to 09 o'clock, 5 %, within 8 inch: YES	00:03:51	646, b	
	97.31 S1	Roots Medium Joint, from 03 to 10 o'clock, 5 %, within 8 inch: YES, start	00:04:18	648, b	
	138.09	Roots Medium Joint, from 12 to 12 o'clock, 35 %, within 8 inch: YES	00:05:17	650, b	
	156.16	Downstream Manhole, Survey Ends 2432-0137	00:06:15	652	

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



## Inspection report

Date: <b>20110325</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>908</b>	PSR: <b>88035</b>
Total Pipe Length: <b>315</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/25/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2389</b>

Street: <b>EASEMENT</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2389-0272</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2389-0271</b>
Location Code: <b>D Easement/Right of Way</b>	Tape/Media #:	pipe length: <b>240.57 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 12/12</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>315</b>
Drain. Area: <b>0271/2389-0272/2389</b>	Lining Method:
	Category:

Remark:: **NONE**

1:600	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2389-0272	00:00:08	51	
	0.00	Water Level, 10 % of cross sectional area	00:00:20		M 2
	0.00	Water Mark, 10 % of cross sectional area	00:00:23		M 2
	21.84	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:00:57	52, b	M 4
	35.47	Infiltration Runner, at 08 o'clock, within 8 inch: YES	00:01:25	54, b	M 4
	40.18	Infiltration Runner, at 08 o'clock, within 8 inch: YES	00:01:40	56	M 4
	55.21	Infiltration Runner, at 08 o'clock, within 8 inch: YES	00:02:02	57, b	M 4
	68.03	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:02:22	59	
	92.38	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:02:51	60, b	M 4
	115.43	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:03:19	62	
	156.11	Infiltration Runner, at 08 o'clock, within 8 inch: YES	00:04:08	63, b	M 4
	167.83	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:04:31	65	
	167.83	Roots Ball Lateral, from 12 to 12 o'clock, 90 %, within 8 inch: YES	00:04:36	66	M 4
	192.18	Infiltration Runner, at 04 o'clock, within 8 inch: YES	00:05:07	67, b	M 4
	193.48	Crack Multiple, from 03 to 06 o'clock, within 8 inch: YES	00:05:20	69, b	S 3
	202.50	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:05:40	71, b	M 4
	215.32	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:06:01	73	
	233.96	Broken, from 09 to 03 o'clock, within 8 inch: YES	00:06:32	74, b	S 5
	240.57	Downstream Manhole, Survey Ends 2389-0316	00:07:33	76	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	4922	8	40	48	4	3.64	3.69



## Inspection report

Date: <b>20110325</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>905</b>	PSR: <b>88032</b>
Total Pipe Length: <b>261</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/25/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2389</b>

Street: <b>EASEMENT</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2389-0269</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2389-0268</b>
Location Code: <b>D Easement/Right of Way</b>	Tap/Media #:	pipe length: <b>346.68 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 12/12</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>261</b>
Drain. Area: <b>0268/2389-0269/2389</b>	Lining Method:
	Category:

Remark:: **NONE**

1:850	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2389-0269	00:00:00	134	
	0.00	Water Level, 10 % of cross sectional area	00:00:27		M 2
	0.00	Water Mark, 10 % of cross sectional area	00:00:32		M 2
	21.54	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:01:22	135, b	M 4
	35.77 S1	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES, start	00:02:12	137, b	M 4
	52.50	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:02:59	139	
	99.40	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:04:05	140	
	151.80	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:05:29	141	
	198.89	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:06:24	142	
	245.28	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:07:23	143, b	S 2
	251.19	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:07:53	145	
	298.59	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:08:54	146	
	308.61	Broken Soil Visible, from 02 to 05 o'clock, within 8 inch: YES	00:09:41	147, b	S 5
	343.68	Roots Fine Joint, from 08 to 10 o'clock, within 8 inch: YES	00:10:40	149, b	
	344.38 F1	Infiltration Runner, , within 8 inch: YES, end	00:10:51		M 4
	346.68	Downstream Manhole, Survey Ends 2389-0268	00:11:06	151	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	4L22	7	256	263	3.5	3.94	3.93



## Inspection report

Date: <b>20110317</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>707</b>	PSR: <b>85673</b>
Total Pipe Length: <b>238</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/17/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>BALLENA DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0157</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0159</b>
Location Code: <b>C Light Highway</b>	Tap/Media #:	pipe length: <b>250.99 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>238</b>
Drain. Area: <b>0157/2432-0159/2432</b>	Lining Method:
	Category:

Remark:: **TVed Upstream/ BROKEN**

1:625	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 2432-0157	00:00:00	709_1a	
	0.00	Water Level, 5 % of cross sectional area	00:00:21		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:24		M 2
	185.87	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:04:34	709_4a	
	209.01	Broken Soil Visible, from 12 to 05 o'clock, within 8 inch: YES	00:05:18	709_5a, b	S 5
	250.99	Upstream Manhole, Survey Ends 2432-0159	00:06:58	709_6a	

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



National Plant Services Inc.  
 1461 Harbor Ave  
 Long Beach, CA 90813  
 Tel: (562) 436-7600, Fax: (562) 495-1528

## Inspection report

Date: <b>20110321</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>796</b>	PSR: <b>85660</b>
Total Pipe Length: <b>162</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/21/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>BALLENA DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0142</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0156</b>
Location Code: <b>C Light Highway</b>	Tap/Media #:	pipe length: <b>146.49 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>0142/2432-0156/2432</b>	Lining Method:
	Category:

Remark.: **TVed Upstream**

1:375	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 2432-0142	00:00:00	205	
	0.00	Water Level, 5 % of cross sectional area	00:00:12		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:13		M 2
	55.51	Broken Soil Visible, from 11 to 02 o'clock, within 8 inch: YES	00:01:48	206, b	S 5
	87.87	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:02:53	208	
	146.49	Upstream Manhole, Survey Ends 2432-0156	00:04:24	209	

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



## Inspection report

Date: <b>20110309</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>330</b>	PSR: <b>85536</b>
Total Pipe Length: <b>255</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/09/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>SYLVAN GLEN RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0250</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0251</b>
Location Code: <b>C Light Highway</b>	Tap/Media #:	pipe length: <b>294.58 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>255</b>
Drain. Area: <b>0250/2432-0251/2432</b>	Lining Method:
	Category:

Remark:: **NONE**

1:725	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2432-0250	00:00:00	42	
	0.00	Water Level, 10 % of cross sectional area	00:00:29		M 2
	0.00	Water Mark, 10 % of cross sectional area	00:00:33		M 2
	24.55	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:01:37	43	
	62.62	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:03:02	44	
	81.26	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:03:44	45	
	124.34	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:05:37	46, b	M 4
	172.64	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:07:25	48	
	235.06	Joint Offset Large	00:09:12	49, b	S 2
	245.18	Camera Underwater	00:12:55	51	M 4
	294.58	Downstream Manhole, Survey Ends 2432-0251	00:16:23	52	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
2100	4222	2	12	14	2	3	2.8



## Inspection report

Date: <b>20110321</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>798</b>	PSR: <b>85662</b>
Total Pipe Length: <b>298</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/17/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>PALOMINO DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0145</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0144</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>276.24 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>298</b>
Drain. Area: <b>0144/2432-0145/2432</b>	Lining Method:
	Category:

Remark:: **ROOTS**

1:297	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2432-0145	00:00:00	26	
	0.00	Water Level, 5 % of cross sectional area	00:00:27		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:30		M 2
	5.41	<b>S1</b> Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, start	00:00:45	27, b	
	8.62	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:01:05	29	
	8.62	Roots Medium Lateral, from 05 to 10 o'clock, 10 %, within 8 inch: YES	00:01:08	30	M 3
	13.23	<b>F1</b> Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, end	00:01:25	31	
	14.63	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:01:33	32	
	35.17	Roots Fine Joint, from 08 to 11 o'clock, within 8 inch: YES	00:02:09	33, b	
	45.39	Roots Fine Joint, from 10 to 05 o'clock, within 8 inch: YES	00:02:37	35, b	
	48.70	Roots Fine Joint, from 08 to 12 o'clock, within 8 inch: YES	00:02:56	37, b	
	59.02	<b>S2</b> Roots Fine Joint, from 01 to 05 o'clock, within 8 inch: YES, start	00:03:26	39, b	
	61.12	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:03:43	41	
	62.12	Crack Multiple, from 10 to 03 o'clock, within 8 inch: YES	00:04:03	42, b	S 3
	71.74	Fracture Multiple, from 01 to 05 o'clock, within 8 inch: YES	00:04:40	44, b	S 4
	85.97	Crack Multiple, from 07 to 12 o'clock, within 8 inch: YES	00:05:31	46, b	S 3
	89.48	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:06:26	48, b	S 3
	102.20	<b>F2</b> Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, end	00:06:58	50	
	103.00	Crack Multiple, from 07 to 12 o'clock, within 8 inch: YES	00:07:18	51, b	S 3
	104.51	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:07:35	53	
	104.51	Roots Medium Lateral, from 11 to 06 o'clock, 10 %, within 8 inch: YES	00:07:42	54	M 3
	105.71	Fracture Multiple, from 06 to 11 o'clock, within 8 inch: YES	00:08:02	55, b	S 4
	112.12	Roots Fine Joint, from 03 to 06 o'clock, within 8 inch: YES	00:08:24	57, b	
	115.03	Roots Fine Joint, from 07 to 09 o'clock, within 8 inch: YES	00:08:50	59, b	
	115.83	Crack Multiple, from 03 to 08 o'clock, within 8 inch: YES	00:09:22	61, b	S 3



## Inspection report

Date: <b>20110321</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>798</b>	PSR: <b>85662</b>
Total Pipe Length: <b>298</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/17/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

1:297	position	observation	MPEG	photo	grade
	115.83	Crack Multiple, from 03 to 08 o'clock, within 8 inch: YES	00:09:22	61, b	S 3
	121.74	Roots Medium Joint, from 09 to 03 o'clock, 5 %, within 8 inch: YES	00:09:49	63, b	
	122.84	Fracture Multiple, from 06 to 09 o'clock, within 8 inch: YES	00:10:15	65, b	S 4
	131.96	Roots Fine Joint, from 02 to 08 o'clock, within 8 inch: YES	00:10:46	67, b	
	140.98	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:11:17	69	
	140.98	Roots Ball Connection, from 12 to 12 o'clock, 100 %, within 8 inch: YES	00:11:22	70, b	M 4
	141.58	Fracture Multiple, from 06 to 11 o'clock, within 8 inch: YES	00:11:47	72, b	S 4
	145.09	Fracture Multiple, from 08 to 12 o'clock, within 8 inch: YES	00:12:11	74, b	S 4
	148.29	Fracture Multiple, from 03 to 11 o'clock, within 8 inch: YES	00:12:34	76, b	S 4
	155.20	Infiltration Runner, from 05 to 07 o'clock, within 8 inch: YES	00:12:59	78, b	M 4
	158.01	Infiltration Runner, from 05 to 07 o'clock, within 8 inch: YES	00:13:20	80, b	M 4
	161.52	Infiltration Runner, from 05 to 07 o'clock, within 8 inch: YES	00:13:40	82, b	M 4
	165.02	Roots Fine Joint, from 04 to 05 o'clock, within 8 inch: YES	00:14:01	84, b	
	165.63	Crack Multiple, from 01 to 05 o'clock, within 8 inch: YES	00:14:18	86, b	S 3
	168.33	Roots Medium Joint, from 11 to 02 o'clock, 5 %, within 8 inch: YES	00:14:36	88, b	
	169.43	Crack Multiple, from 12 to 05 o'clock, within 8 inch: YES	00:14:53	90, b	S 3
	171.84	Roots Fine Joint, from 10 to 11 o'clock, within 8 inch: YES	00:15:11	92	
	171.84	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:15:14	93, b	S 3
	175.14 <b>S2</b>	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, start	00:15:38	95, b	
	175.14	Crack Multiple, from 07 to 08 o'clock, within 8 inch: YES	00:15:43	97, b	S 3
	228.35	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:16:55	99	
	247.59	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:17:40	100	
	247.59	Roots Fine Lateral, from 02 to 06 o'clock, within 8 inch: YES	00:17:44	101	M 1
	273.24 <b>F2</b>	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, end	00:18:30	102	
	276.24	Downstream Manhole, Survey Ends 2432-0144	00:18:52	103	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4639	4432	51	27	78	3.4	3	3.25



## Inspection report

Date: <b>20110222</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A. OBRIEN</b>	section number: <b>63</b>	PSR: <b>88054</b>
Total Pipe Length: <b>230</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/22/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2389</b>

Street: <b>WILLAPA LN</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2389-0286</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2389-0285</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>230.05 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>230</b>
Drain. Area: <b>0285/2389-0286/2389</b>	Lining Method:
	Category:

Remark:: **CRACKS**

1:575	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2389-0286	00:00:00	168	
	0.00	Water Level, 5 % of cross sectional area	00:00:38		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:40		M 2
	46.09	Roots Fine Joint, from 12 to 01 o'clock, within 8 inch: YES	00:01:45	169, b	
	56.61	Roots Fine Joint, from 12 to 05 o'clock, within 8 inch: YES	00:02:13	171, b	
	61.02	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:02:30	173, b	
	68.74	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:03:01	175	
	86.57	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:03:33	176	
	86.57	Roots Fine Lateral, from 06 to 08 o'clock, within 8 inch: YES	00:03:37	177	M 1
	122.74	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:04:55	178, b	S 4
	133.16	Fracture Multiple, from 12 to 08 o'clock, within 8 inch: YES	00:05:44	180, b	S 4
	134.87	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:06:04	182	
	150.50	Crack Multiple, from 11 to 03 o'clock, within 8 inch: YES	00:06:45	183, b	S 3
	155.51	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:07:06	185, b	S 4
	160.72	Fracture Multiple, from 06 to 03 o'clock, within 8 inch: YES	00:07:29	187, b	S 4
	176.15	Fracture Multiple, from 04 to 09 o'clock, within 8 inch: YES	00:08:07	189, b	S 4
	193.08	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:08:49	191	
	205.80	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:09:15	192	
	230.05	Downstream Manhole, Survey Ends 2389-0285	00:10:21	193	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4531	2211	23	5	28	3.83	1.67	3.11



## Inspection report

Date: <b>20110317</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>708</b>	PSR: <b>85674</b>
Total Pipe Length: <b>223</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/17/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>MEADOW FALLS DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0160</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0159</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>209.11 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>223</b>
Drain. Area: <b>0159/2432-0160/2432</b>	Lining Method:
	Category:

Remark:: **NONE**

1:525	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2432-0160	00:00:00	152	
	0.00	Water Level, 5 % of cross sectional area	00:00:29		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:31		M 2
	9.72	Fracture Multiple, from 07 to 11 o'clock, within 8 inch: YES	00:00:57	153, b	S 4
	10.82	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:01:11	155	
	59.72	Crack Multiple, from 06 to 12 o'clock, within 8 inch: YES	00:02:42	156, b	S 3
	64.33	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:03:16	158	
	83.26	Fracture Multiple, from 09 to 01 o'clock, within 8 inch: YES	00:03:58	159, b	S 4
	83.66	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:04:14	161	
	110.52	Crack Multiple, from 07 to 09 o'clock, within 8 inch: YES	00:05:26	162, b	S 3
	140.38	Crack Multiple, from 11 to 04 o'clock, within 8 inch: YES	00:06:18	164, b	S 3
	142.38	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:06:35	166, b	
	143.18	Crack Multiple, from 02 to 06 o'clock, within 8 inch: YES	00:06:53	168, b	S 3
	149.29	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:07:21	170, b	S 4
	150.80	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES	00:08:01	172	
	155.10	Fracture Multiple, from 03 to 07 o'clock, within 8 inch: YES	00:08:19	173, b	S 4
	178.45	Crack Multiple, from 02 to 07 o'clock, within 8 inch: YES	00:09:10	175, b	S 3
	209.11	Downstream Manhole, Survey Ends 2432-0159	00:10:07	177	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4435	2200	31	4	35	3.44	2	3.18



## Inspection report

Date: <b>20110318</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>713</b>	PSR: <b>88076</b>
Total Pipe Length: <b>227</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/18/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2389</b>

Street: <b>PALOMINO DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2389-0306</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2389-0308</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>312.71 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>227</b>
Drain. Area: <b>0306/2389-0308/2389</b>	Lining Method:
	Category:

Remark:: **NONE**

1:561	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2389-0306	00:00:14	43	
	0.00	Water Level, 5 % of cross sectional area	00:00:27		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:31		M 2
	7.41	Roots Fine Joint, from 08 to 03 o'clock, within 8 inch: YES	00:00:50	44, b	
	9.92	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:01:13	46, b	
	13.23	Roots Fine Joint, from 12 to 04 o'clock, within 8 inch: YES	00:01:32	48, b	
	42.38	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:02:24	50	
	42.38	Roots Ball Connection, from 12 to 12 o'clock, 75 %, within 8 inch: YES	00:02:27	51, b	M 4
	73.34	Roots Medium Joint, from 03 to 05 o'clock, 5 %, within 8 inch: YES	00:03:31	53, b	
	86.97	Roots Fine Joint, from 02 to 03 o'clock, within 8 inch: YES	00:04:07	55, b	
	87.57	Fracture Multiple, from 12 to 05 o'clock, within 8 inch: YES	00:04:16	57, b	S 4
	94.39	Crack Multiple, from 08 to 10 o'clock, within 8 inch: YES	00:04:43	59, b	S 3
	97.49	Crack Multiple, from 01 to 10 o'clock, within 8 inch: YES	00:05:25	61, b	S 3
	122.54	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:06:12	63	
	122.54	Roots Ball Lateral, from 12 to 12 o'clock, 100 %, within 8 inch: YES	00:06:16	64	M 4
	130.96	Crack Multiple, from 01 to 05 o'clock, within 8 inch: YES	00:06:43	65, b	S 3
	151.10	Fracture Multiple, from 08 to 10 o'clock, within 8 inch: YES	00:07:28	67, b	S 4
	151.10	Roots Fine Joint, from 03 to 06 o'clock, within 8 inch: YES	00:07:41	69, b	
	157.11	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:08:03	71, b	
	167.03	Roots Fine Joint, from 11 to 03 o'clock, within 8 inch: YES	00:08:32	73, b	
	194.78	Crack Multiple, from 06 to 10 o'clock, within 8 inch: YES	00:09:21	75	S 3
	203.10	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:10:01	76	
	203.10	Roots Medium Lateral, from 03 to 07 o'clock, 5 %, within 8 inch: YES	00:10:06	77	M 3



## Inspection report

Date: <b>20110318</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>713</b>	PSR: <b>88076</b>
Total Pipe Length: <b>227</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/18/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2389</b>

1:561	position	observation	MPEG	photo	grade
	241.07	Roots Fine Joint, from 08 to 02 o'clock, within 8 inch: YES	00:11:01	78, b	
	242.78	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:11:17	80	
	242.78	Roots Ball Lateral, from 12 to 12 o'clock, 100 %, within 8 inch: YES	00:11:22	81	M 4
	250.09	Roots Fine Joint, from 09 to 04 o'clock, within 8 inch: YES	00:11:38	82, b	
	253.50	Roots Medium Joint, from 08 to 04 o'clock, 5 %, within 8 inch: YES	00:11:56	84, b	
	254.20	Crack Multiple, from 08 to 11 o'clock, within 8 inch: YES	00:12:15	86, b	S 3
	257.41	Roots Fine Joint, from 07 to 04 o'clock, within 8 inch: YES	00:12:36	88, b	
	308.41	Fracture Multiple, from 02 to 06 o'clock, within 8 inch: YES	00:13:49	90, b	S 4
	312.71	Downstream Manhole, Survey Ends 2389-0308	00:14:20	92	



## Inspection report

Date: <b>20110317</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>709</b>	PSR: <b>85675</b>
Total Pipe Length: <b>222</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/17/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>MEADOW FALLS DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0161</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0160</b>
Location Code: <b>C Light Highway</b>	Tap/Media #:	pipe length: <b>224.94 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>222</b>
Drain. Area: <b>0160/2432-0161/2432</b>	Lining Method:
	Category:

Remark:: **NONE**

1:550	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2432-0161	00:00:00	136	
	0.00	Water Level, 5 % of cross sectional area	00:00:40		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:42		M 2
	18.24	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:01:18	137, b	S 4
	21.24	Crack Multiple, from 08 to 10 o'clock, within 8 inch: YES	00:01:37	139, b	S 3
	22.54	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:01:49	141	
	71.14	Crack Multiple, from 12 to 03 o'clock, within 8 inch: YES	00:03:09	142, b	S 3
	92.88	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:03:51	144	
	171.84	Fracture Multiple, from 10 to 01 o'clock, within 8 inch: YES	00:05:43	145, b	S 4
	173.34	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:06:00	147	
	203.10	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:07:04	148	
	221.44	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:07:50	149, b	S 4
	224.94	Downstream Manhole, Survey Ends 2432-0160	00:08:24	151	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4332	2200	18	4	22	3.6	2	3.14



## Inspection report

Date: <b>20110321</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>794</b>	PSR: <b>85658</b>
Total Pipe Length: <b>354</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/21/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>PALOMINO DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0142</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0141</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>348.18 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>354</b>
Drain. Area: <b>0141/2432-0142/2432</b>	Lining Method:
	Category:

Remark:: **NONE**

1:850	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2432-0142	00:00:00	212	
	0.00	Water Level, 10 % of cross sectional area	00:00:18		M 2
	0.00	Water Mark, 15 % of cross sectional area	00:00:21		M 2
	5.11	Fracture Multiple, from 08 to 12 o'clock, within 8 inch: YES	00:01:00	213, b	S 4
	17.23	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:01:39	215	
	101.40	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:03:22	216	
	181.86	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:05:20	217	
	224.74	Crack Multiple, from 09 to 02 o'clock, within 8 inch: YES	00:06:36	218, b	S 3
	252.20	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:07:35	220	
	252.20	Roots Medium Lateral, from 05 to 11 o'clock, 35 %, within 8 inch: YES	00:07:39	221	M 3
	259.71	Roots Fine Joint, from 10 to 03 o'clock, within 8 inch: YES	00:08:05	222, b	
	260.01	Crack Multiple, from 04 to 09 o'clock, within 8 inch: YES	00:08:28	224, b	S 3
	273.54	Fracture Multiple, from 08 to 04 o'clock, within 8 inch: YES	00:09:03	226, b	S 4
	331.75	Crack Multiple, from 02 to 04 o'clock, within 8 inch: YES	00:10:53	228, b	S 3
	339.97	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:11:56	230	
	344.18	Crack Spiral, from 07 to 09 o'clock, within 8 inch: YES	00:12:25	231, b	S 2
	348.18	Downstream Manhole, Survey Ends 2432-0141	00:13:03	233	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4233	3122	19	7	26	3.17	2.33	2.89



## Inspection report

Date: <b>20110325</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>3 Light rain</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>909</b>	PSR: <b>88037</b>
Total Pipe Length: <b>350</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/25/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2389</b>

Street: <b>EASEMENT</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2389-0273</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2389-0272</b>
Location Code: <b>D Easement/Right of Way</b>	Tape/Media #:	pipe length: <b>347.88 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 12/12</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>350</b>
Drain. Area: <b>0272/2389-0273/2389</b>	Lining Method:
	Category:

Remark:: **NONE**

1:693	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2389-0273	00:00:00	12	
	0.00	Water Level, 10 % of cross sectional area	00:00:24		M 2
	0.00	Water Mark, 10 % of cross sectional area	00:01:59		M 2
	55.01	Roots Medium Joint, from 12 to 04 o'clock, 40 %, within 8 inch: YES	00:01:43	13, b	
	68.03	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:02:09	15	
	87.97	Roots Fine Joint, from 12 to 03 o'clock, within 8 inch: YES	00:02:37	16, b	
	88.27	Fracture Multiple, from 08 to 11 o'clock, within 8 inch: YES	00:02:50	18, b	S 4
	93.28	Roots Fine Joint, from 02 to 04 o'clock, within 8 inch: YES	00:03:11	20, b	
	93.98	Crack Multiple, from 03 to 05 o'clock, within 8 inch: YES	00:03:30	22, b	S 3
	115.43	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:04:16	24	
	135.87	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:04:51	25, b	M 4
	162.72	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:05:35	27	
	197.09	Roots Medium Joint, from 10 to 02 o'clock, 5 %, within 8 inch: YES	00:06:16	28, b	
	215.22	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:06:48	30	
	230.65	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:07:17	31, b	M 4
	234.26	Roots Medium Joint, from 01 to 04 o'clock, 5 %, within 8 inch: YES	00:07:44	33, b	
	235.76	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:08:02	35, b	M 4
	250.39	Roots Fine Joint, from 09 to 04 o'clock, within 8 inch: YES	00:08:28	37, b	
	265.12	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:08:56	39, b	M 4
	267.53	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:09:11	41	
	288.07	Crack Multiple, from 02 to 04 o'clock, within 8 inch: YES	00:09:51	42, b	S 3



National Plant Services Inc.  
 1461 Harbor Ave  
 Long Beach, CA 90813  
 Tel: (562) 436-7600, Fax: (562) 495-1528

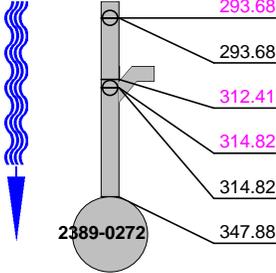
## Inspection report

Date: <b>20110325</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>3 Light rain</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>909</b>	PSR: <b>88037</b>
Total Pipe Length: <b>350</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/25/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2389</b>

1:693	position	observation	MPEG	photo	grade
	<u>293.68</u>	Fracture Multiple, from 08 to 12 o'clock, within 8 inch: YES	00:10:18	44	S 4
	<u>293.68</u>	Tap Break-In Active, at 12 o'clock, 4", within 8 inch: YES	00:10:32	45	
	<u>312.41</u>	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:11:03	46, b	M 4
	<u>314.82</u>	Roots Ball Connection, from 12 to 12 o'clock, 100 %, within 8 inch: YES	00:11:20	48	M 4
	<u>314.82</u>	Tap Factory Made, at 10 o'clock, 6", within 8 inch: YES	00:11:23	49	
	<u>347.88</u>	Downstream Manhole, Survey Ends 2389-0272	00:12:16	50	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4232	4622	14	28	42	3.5	3.5	3.5





## Inspection report

Date: <b>20110217</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B FUGATE</b>	section number: <b>92</b>	PSR: <b>85769</b>
Total Pipe Length: <b>360</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/17/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>FLINTLOCK RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0017</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0035</b>
Location Code: <b>C Light Highway</b>	Tap Media #:	pipe length: <b>325.16 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>360</b>
Drain. Area: <b>0017/2432-0035/2432</b>	Lining Method:
	Category:

Remark:: **NONE**

1:800	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2432-0017		79	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	62.97	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:25	80	
	85.91	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:10	81	
	108.16	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:01	82	
	154.32	Crack Multiple, from 06 to 10 o'clock, within 8 inch: YES	00:05:33	83, b	S 3
	156.07	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:48	85	
	178.52	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES, Remark: ROOTS	00:06:46	86	M 2
	178.52	Roots Ball Lateral, from 06 to 10 o'clock, 50 %, within 8 inch: YES	00:06:48	87, b	M 4
	196.49	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:37	89	
	251.11	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:36	90	
	263.65	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:05	91	
	316.32	Fracture Multiple, from 01 to 08 o'clock, within 8 inch: NO	00:12:07	92, b	S 4
	319.23	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:12:19	94, b	S 4
	321.17	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:32	96	
	325.16	Downstream Manhole, Survey Ends 2432-0035	00:13:00	97	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4231	4123	11	10	21	3.67	2.5	3



## Inspection report

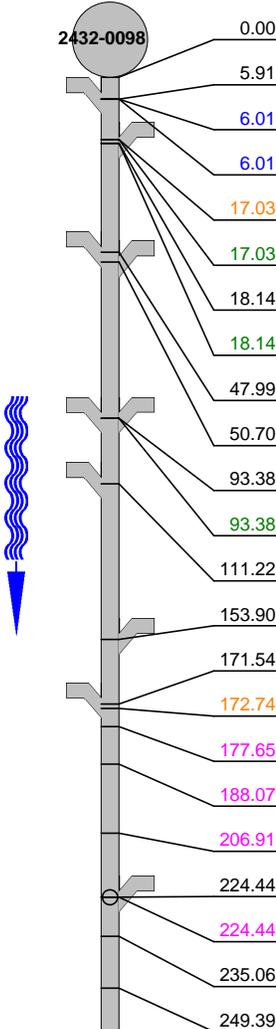
Date: <b>20110225</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A. OBRIEN</b>	section number: <b>220</b>	PSR: <b>85732</b>
Total Pipe Length: <b>134</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/25/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>DEL SOL LN</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0098</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0121</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>293.68 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>134</b>
Drain. Area: <b>0098/2432-0121/2432</b>	Lining Method:
	Category:

Remark:: **NONE**

1:627	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2432-0098	00:00:00	267	
	5.91	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:01:05	268	
	6.01	Water Level, 5 % of cross sectional area	00:01:17		M 2
	6.01	Water Mark, 5 % of cross sectional area	00:01:19		M 2
	17.03	Deposits Settled Gravel, 15 % of cross sectional area, from 04 to 08 o'clock, within 8 inch: YES	00:01:59	269, b	M 3
	17.03	Joint Offset Medium	00:02:20	271, b	S 1
	18.14	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:02:39	273	
	18.14	Joint Offset Medium	00:02:51	274, b	S 1
	47.99	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:03:51	276	
	50.70	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:04:06	277	
	93.38	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:05:24	278	
	93.38	Roots Fine Lateral, from 10 to 03 o'clock, within 8 inch: YES	00:05:30	279	M 1
	111.22	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:06:10	280	
	153.90	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:07:28	281	
	171.54	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:08:08	282	
	172.74	Crack Multiple, from 02 to 04 o'clock, within 8 inch: YES	00:08:21	283, b	S 3
	177.65	Fracture Multiple, from 02 to 04 o'clock, within 8 inch: YES	00:08:50	285, b	S 4
	188.07	Fracture Multiple, from 02 to 04 o'clock, within 8 inch: YES	00:09:29	287, b	S 4
	206.91	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:10:26	289, b	M 4
	224.44	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:11:07	291	
	224.44	Roots Ball Lateral, from 12 to 12 o'clock, 70 %, within 8 inch: YES	00:11:10	292	M 4
	235.06	Roots Fine Joint, from 02 to 04 o'clock, within 8 inch: YES	00:11:46	293, b	
	249.39	Roots Fine Joint, from 07 to 11 o'clock, within 8 inch: YES	00:12:34	295, b	





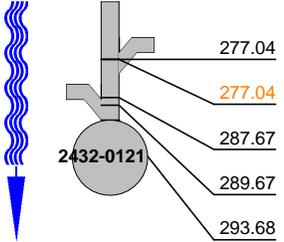
## Inspection report

Date: <b>20110225</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A. OBRIEN</b>	section number: <b>220</b>	PSR: <b>85732</b>
Total Pipe Length: <b>134</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/25/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

1:627	position	observation	MPEG	photo	grade
	277.04	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:13:36	297	
	277.04	Roots Medium Lateral, from 02 to 08 o'clock, 40 %, within 8 inch: YES	00:13:42	298	M 3
	287.67	Roots Fine Joint, from 09 to 04 o'clock, within 8 inch: YES	00:14:18	299, b	
	289.67	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:14:42	301	
	293.68	Downstream Manhole, Survey Ends 2432-0121	00:15:21	302	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4231	4232	13	19	32	2.6	2.71	2.67





## Inspection report

Date: <b>20110325</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>906</b>	PSR: <b>88033</b>
Total Pipe Length: <b>351</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/25/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2389</b>

Street: <b>EASEMENT</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2389-0270</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2389-0269</b>
Location Code: <b>D Easement/Right of Way</b>	Tape/Media #:	pipe length: <b>295.38 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 12/12</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>351</b>
Drain. Area: <b>0269/2389-0270/2389</b>	Lining Method:
	Category:

Remark:: **NONE**

1:725	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2389-0270	00:00:00	101	
	1.90	Water Level, 10 % of cross sectional area	00:00:19		M 2
	1.90	Water Mark, 10 % of cross sectional area	00:00:20		M 2
	8.02	Roots Fine Joint, from 08 to 09 o'clock, within 8 inch: YES	00:00:29	102, b	
	46.49	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:01:31	104, b	M 4
	50.40	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:01:48	106	
	55.11	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:02:10	107, b	M 4
	64.43	Fracture Multiple, from 03 to 05 o'clock, within 8 inch: YES	00:02:40	109, b	S 4
	75.05	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:03:07	111, b	M 4
	96.29	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:03:45	113	
	111.32	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:04:12	114, b	M 4
	116.33	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:04:30	116, b	M 4
	121.34	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:04:47	118, b	M 4
	127.65	Fracture Multiple, from 02 to 05 o'clock, within 8 inch: YES	00:05:07	120, b	S 4
	148.59	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:05:39	122	
	196.29	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:06:27	123	
	205.60	Crack Multiple, from 11 to 04 o'clock, within 8 inch: YES	00:06:49	124, b	S 3
	213.12	Infiltration Runner, at 08 o'clock, within 8 inch: YES	00:07:12	126, b	M 4
	222.24	Infiltration Runner, at 08 o'clock, within 8 inch: YES	00:07:41	128, b	M 4
	228.55	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:08:07	130, b	M 4
	247.89	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:08:43	132	
	295.38	Downstream Manhole, Survey Ends 2389-0269	00:09:57	133	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4231	4922	11	40	51	3.67	3.64	3.64



## Inspection report

Date: <b>20110217</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B FUGATE</b>	section number: <b>100</b>	PSR: <b>85728</b>
Total Pipe Length: <b>295</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/17/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>DEL SOL LN</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0096</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0094</b>
Location Code: <b>C Light Highway</b>	Tap Media #:	pipe length: <b>281.53 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>295</b>
Drain. Area: <b>0094/2432-0096/2432</b>	Lining Method:
	Category:

Remark:: **NONE**

1:700	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2432-0096		129	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 of cross sectional area			M 2
	1.85	Crack Circumferential, from 10 to 11 o'clock, within 8 inch: YES	00:00:35	130, b	S 1
	23.23	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:35	132	
	86.39	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:03:42	133	
	110.20	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:34	134	
	154.42	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:01	135	
	217.58	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:03	136	
	272.78	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:09:48	137, b	S 4
	277.83	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:10:11	139, b	S 4
	281.53	Downstream Manhole, Survey Ends 2432-0094	00:11:10	141	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4211	2200	9	4	13	3	2	2.6



## Inspection report

Date: <b>20110222</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A. OBRIEN</b>	section number: <b>69</b>	PSR: <b>88046</b>
Total Pipe Length: <b>298</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/21/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>BOWER CASCADE PL</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0099</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2389-0280</b>
Location Code: <b>C Light Highway</b>	Tap Media #:	pipe length: <b>335.56 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>298</b>
Drain. Area: <b>0099/2432-0280/2389</b>	Lining Method:
	Category:

Remark:: **NONE**

1:825	position	observation	MPEG	photo	grade
		<b>2432-0099</b>			
	0.00	Upstream Manhole, Survey Begins 2432-0099	00:00:00	17	
	0.00	Water Level, 5 % of cross sectional area	00:00:34		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:37		M 2
	5.31	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:01:05	18	
	5.31	Roots Fine Lateral, from 07 to 09 o'clock, within 8 inch: YES	00:01:17	19	M 1
	83.26	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:03:30	20	
	83.26	Roots Fine Lateral, from 03 to 06 o'clock, within 8 inch: YES	00:03:33	21	M 1
	161.42	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:05:48	22	
	184.36	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:06:40	23	
	237.27	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:08:02	24	
	250.79	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:08:36	25	
	267.33	Fracture Multiple, from 06 to 12 o'clock, within 8 inch: YES	00:09:38	26, b	S 4
	304.10	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:11:04	28	
	331.85	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:12:03	29	
	333.35	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:12:26	30, b	S 4
	335.56	Downstream Manhole, Survey Ends 2389-0280	00:13:08	32	
		<b>2389-0280</b>			

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4200	2212	8	6	14	4	1.5	2.33



## Inspection report

Date: <b>20110217</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B FUGATE</b>	section number: <b>95</b>	PSR: <b>85786</b>
Total Pipe Length: <b>216</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/17/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>DEL SOL LN</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0053</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0033</b>
Location Code: <b>C Light Highway</b>	Tap/Media #:	pipe length: <b>264.52 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>0033/2432-0053/2432</b>	Lining Method:
	Category:

Remark:: **NONE**

1:650	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2432-0053		1	
	0.00	Water Level, 5 of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	11.18	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:00:53	3	
	18.66	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:17	4	
	31.39	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:51	5	
	68.71	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:13	6	
	69.00	Water Level, Sag in pipe, 55 % of cross sectional area	00:03:22	7, b	M 4
	126.14	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:19	9	
	138.38	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:55	10	
	144.21 S1	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	00:06:14	11, b	S 4
	148.49 F1	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	00:06:43	13, b	S 4
	175.80	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:06	15	
	203.49	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:04	16	
	246.06	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:31	17	
	264.52	Downstream Manhole, Survey Ends 2432-0033	00:11:29	18	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4200	4122	8	8	16	4	2.67	3.2



## Inspection report

Date: <b>20110317</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>701</b>	PSR: <b>85663</b>
Total Pipe Length: <b>147</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/17/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2432</b>

Street: <b>PALOMINO DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0146</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0147</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>139.37 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>147</b>
Drain. Area: <b>0146/2432-0147/2432</b>	Lining Method:
	Category:

Remark:: **ROOTS**

1:350	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2432-0146	00:00:00	1	
	4.91	Fracture Multiple, from 10 to 01 o'clock, within 8 inch: YES	00:00:45	2, b	S 4
	5.41	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:01:06	4	
	5.71	Water Level, 5 % of cross sectional area	00:01:17	5	M 2
	5.71	Water Mark, 5 % of cross sectional area	00:01:20		M 2
	7.82	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:01:29	6	
	32.86	Roots Fine Joint, from 08 to 02 o'clock, within 8 inch: YES	00:02:09	7, b	
	36.07	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:02:29	9, b	
	39.08	Roots Fine Joint, from 10 to 04 o'clock, within 8 inch: YES	00:02:55	11, b	
	57.91	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:03:39	13	
	57.91	Roots Medium Lateral, from 12 to 12 o'clock, 10 %, within 8 inch: YES	00:03:42	14	M 3
	58.51	Roots Fine Joint, from 08 to 03 o'clock, within 8 inch: YES	00:03:55	15, b	
	61.72	Roots Fine Joint, from 08 to 02 o'clock, within 8 inch: YES	00:04:12	17, b	
	63.83	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:04:28	19	
	63.83	Roots Fine Lateral, from 12 to 07 o'clock, within 8 inch: YES	00:04:35	20	M 1
	64.53	Roots Fine Joint, from 08 to 03 o'clock, within 8 inch: YES	00:04:48	21, b	
	74.25	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:05:15	23, b	
	81.16	Roots Fine Joint, from 08 to 03 o'clock, within 8 inch: YES	00:05:36	25, b	
	108.41	Roots Fine Joint, from 02 to 03 o'clock, within 8 inch: YES	00:06:25	27, b	
	117.03	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:06:46	29	
	127.85	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:07:11	30, b	
	134.56	Roots Fine Joint, from 11 to 04 o'clock, within 8 inch: YES	00:07:30	32, b	
	135.07	Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:07:44	34, b	S 4
	139.37	Downstream Manhole, Survey Ends 2432-0147	00:08:24	36	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4200	3122	8	8	16	4	2	2.67



## Inspection report

Date: <b>20110316</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>678</b>	PSR: <b>87762</b>
Total Pipe Length: <b>234</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/16/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2433</b>

Street: <b>MEADOW FALLS DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2433-0001</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2390-0224</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>269.43 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>234</b>
Drain. Area: <b>0001/2433-0224/2390</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:675	position	code	observation	MPEG	photo	grade
			<b>2433-0001</b>			
	0.00	AMH	Upstream Manhole, Survey Begins 2433-0001	00:00:00	120	
	0.00	MWL	Water Level, 5 % of cross sectional area	00:00:27		
	0.00	MWM	Water Mark, 5 % of cross sectional area	00:00:29		M 2
	2.10	FM	Fracture Multiple, from 07 to 09 o'clock, within 8 inch: YES	00:00:39	121, b	S 4
	25.35	CM	Crack Multiple, from 06 to 10 o'clock, within 8 inch: YES	00:01:24	123, b	S 3
	51.20	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:02:07	125	
	53.81	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:02:20	126	
	89.18	CM	Crack Multiple, from 01 to 03 o'clock, within 8 inch: YES	00:03:11	127, b	S 3
	110.82	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:03:49	129	
	133.56	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:04:28	130	
	168.93	CM	Crack Multiple, from 11 to 04 o'clock, within 8 inch: YES	00:05:24	131, b	S 3
	175.75	CM	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:06:14	133, b	S 3
	188.77	CM	Crack Multiple, from 02 to 04 o'clock, within 8 inch: YES	00:06:49	135, b	S 3
	204.20	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:07:20	137	
	215.42	CM	Crack Multiple, from 07 to 10 o'clock, within 8 inch: YES	00:07:54	138, b	S 3
	218.73	CM	Crack Multiple, from 12 to 04 o'clock, within 8 inch: YES	00:08:36	140, b	S 3
	220.03	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:08:53	142	
	269.43	AMH	Downstream Manhole, Survey Ends 2390-0224	00:10:18	143	
			<b>2390-0224</b>			

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4137	2100	25	2	27	3.13	2	3



## Inspection report

Date: <b>20110318</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>724</b>	PSR: <b>88081</b>
Total Pipe Length: <b>338</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/18/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2390</b>

Street: <b>BENCIA RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2390-0216</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2389-0310</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>326.54 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>338</b>
Drain. Area: <b>0216/2390-0310/2389</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:434	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2390-0216	00:00:00	177	
	<u>12.73</u>	MWM	Water Mark, 5 % of cross sectional area	00:00:32		M 2
	<u>12.83</u>	RMJ	Roots Medium Joint, from 02 to 09 o'clock, 15 %, within 8 inch: YES	00:00:37	178, b	M 3
	<u>14.53</u>	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:00:55	180	
	<u>14.53</u>	RMC	Roots Medium Connection, from 02 to 08 o'clock, 15, within 8 inch: YES	00:00:57	181, b	M 3
	<u>18.54</u>	RFJ	Roots Fine Joint, from 03 to 05 o'clock, within 8 inch: YES	00:01:20	183, b	M 1
	<u>22.54</u>	RFJ	Roots Fine Joint, from 01 to 04 o'clock, within 8 inch: YES	00:01:38	185	M 1
	<u>32.16</u>	RFJ	Roots Fine Joint, at 09 o'clock, within 8 inch: YES	00:01:55	186, b	M 1
	<u>35.37</u>	RMJ	Roots Medium Joint, from 09 to 04 o'clock, 5 %, within 8 inch: YES	00:02:08	188, b	M 3
	<u>44.39</u>	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:02:28	190	
	<u>51.80</u>	RFJ	Roots Fine Joint, from 10 to 04 o'clock, within 8 inch: YES	00:02:52	191, b	M 1
	<u>58.72</u>	RMJ	Roots Medium Joint, from 08 to 11 o'clock, 10 %, within 8 inch: YES	00:03:13	193, b	M 3
	<u>60.52</u>	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:03:32	195	
	<u>77.85</u>	RFJ	Roots Fine Joint, from 01 to 04 o'clock, within 8 inch: YES	00:04:00	196, b	M 1
	<u>81.26</u>	RFJ	Roots Fine Joint, from 11 to 04 o'clock, within 8 inch: YES	00:04:14	198, b	M 1
	<u>81.76</u>	CM	Crack Multiple, from 08 to 10 o'clock, within 8 inch: YES	00:04:29	200, b	S 3
	<u>84.67</u>	RFJ	Roots Fine Joint, from 04 to 10 o'clock, within 8 inch: YES	00:04:45	202, b	M 1
	<u>105.51</u>	RFJ	Roots Fine Joint, from 02 to 05 o'clock, within 8 inch: YES	00:05:22	204, b	M 1
	<u>115.23</u>	RFJ	Roots Fine Joint, from 07 to 10 o'clock, within 8 inch: YES	00:05:47	206, b	M 1
	<u>129.86</u>	CM	Crack Multiple, from 02 to 06 o'clock, within 8 inch: YES	00:06:27	208, b	S 3
	<u>134.06</u>	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:06:59	210	
	<u>136.57</u>	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:07:16	211	
	<u>140.88</u>	FM	Fracture Multiple, from 02 to 05 o'clock, within 8 inch: YES	00:07:40	212, b	S 4
	<u>168.23</u>	CM	Crack Multiple, from 07 to 10 o'clock, within 8 inch: YES	00:08:44	214, b	S 3



## Inspection report

Date: <b>20110318</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>724</b>	PSR: <b>88081</b>
Total Pipe Length: <b>338</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/18/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2390</b>

1:434	position	code	observation	MPEG	photo	grade
	197.89	RMJ	Roots Medium Joint, from 02 to 05 o'clock, 5 %, within 8 inch: YES	00:09:32	216, b	M 3
	198.69	CM	Crack Multiple, from 02 to 05 o'clock, within 8 inch: YES	00:09:44	218, b	S 3
	224.04	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:10:26	220	
	226.34	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:10:38	221	
	270.93	RFJ	Roots Fine Joint, from 11 to 12 o'clock, within 8 inch: YES	00:11:46	222	M 1
	271.33	CM	Crack Multiple, from 12 to 04 o'clock, within 8 inch: YES	00:11:54	223, b	S 3
	319.43	CM	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:13:07	225, b	S 3
	326.54	AMH	Downstream Manhole, Survey Ends 2389-0310	00:13:49	227	







## Inspection report

Date: <b>20110321</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>3 Light rain</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>791</b>	PSR: <b>88072</b>
Total Pipe Length: <b>275</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/21/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

Street: <b>PALOMINO DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0139</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2389-0304</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>298.99 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>275</b>
Drain. Area: <b>0139/2432-0304/2389</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:750	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0139	00:00:00	279	
	0.00	MWL	Water Level, 10 % of cross sectional area	00:00:25		
	0.00	MWM	Water Mark, 15 % of cross sectional area	00:00:32		M 2
	58.51	RFJ	Roots Fine Joint, from 11 to 02 o'clock, within 8 inch: YES	00:02:06	280, b	M 1
	65.43	RMJ	Roots Medium Joint, from 08 to 03 o'clock, 20 %, within 8 inch: YES	00:02:26	282, b	M 3
	69.44	RFJ	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:02:44	284, b	M 1
	71.34	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:03:01	286	
	74.95	RMJ	Roots Medium Joint, from 09 to 04 o'clock, 5, within 8 inch: YES	00:03:18	287, b	M 3
	138.47	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:04:46	289	
	169.83	RMJ	Roots Medium Joint, at 02 o'clock, 5 %, within 8 inch: YES	00:05:31	290, b	M 3
	181.06	CM	Crack Multiple, from 03 to 10 o'clock, within 8 inch: YES	00:06:12	292, b	S 3
	219.83	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:07:13	294	
	287.06	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:08:36	295	
	287.87	FM	Fracture Multiple, from 08 to 12 o'clock, within 8 inch: YES	00:08:51	296, b	S 4
	294.28	CM	Crack Multiple, from 03 to 11 o'clock, within 8 inch: YES	00:09:18	298, b	S 3
	298.99	AMH	Downstream Manhole, Survey Ends 2389-0304	00:09:42	300	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4132	3321	10	13	23	3.33	2.17	2.56



## Inspection report

Date: <b>20110318</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>715</b>	PSR: <b>87745</b>
Total Pipe Length: <b>172</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/18/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2390</b>

Street: <b>LA BONITA RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2390-0213</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2390-0205</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>147.69 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>172</b>
Drain. Area: <b>0205/2390-0213/2390</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:375	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2390-0213	00:00:07	256	
	0.00	MWL	Water Level, 5 % of cross sectional area	00:00:31		
	0.00	MWM	Water Mark, 5 % of cross sectional area	00:00:33		M 2
	38.98	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:01:39	257	
	65.23	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:02:22	258	
	81.46	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:02:51	259	
	129.75	FM	Fracture Multiple, from 08 to 12 o'clock, within 8 inch: YES	00:04:01	260, b	S 4
	140.68	CM	Crack Multiple, from 08 to 02 o'clock, within 8 inch: YES	00:04:47	262, b	S 3
	147.69	AMH	Downstream Manhole, Survey Ends 2390-0205	00:05:17	264	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2100	7	2	9	3.5	2	3





National Plant Services Inc.  
 1461 Harbor Ave  
 Long Beach, CA 90813  
 Tel: (562) 436-7600, Fax: (562) 495-1528

## Inspection report

Date: <b>20110328</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>923</b>	PSR: <b>87756</b>
Total Pipe Length: <b>145</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/28/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2390</b>

Street: <b>EASEMENT</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2390-0217</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2390-0221</b>
Location Code: <b>D Easement/Right of Way</b>	Tape/Media #:	Total length surveyed: <b>2.2 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>145</b>
Drain. Area:	Lining:
	Category:

Comment: **TVed Upstream**  
 Location details:

1:25	position	code	observation	MPEG	photo	grade
	0.00	MGO	Reversal Inspection	00:00:00	154	
	0.00	AMH	Downstream Manhole, Survey Begins 2390-0217	00:00:14	155	
	0.00	MWL	Water Level, 5 % of cross sectional area	00:00:24		
	0.00	MWM	Water Mark, 5 % of cross sectional area	00:00:26		M 2
	1.40	FM	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:00:50	156	S 4
	2.20	JAL	Joint Angular Large	00:01:03	157	S 2
	2.20	MSA	Survey Abandoned, Remark: CAMERA WILL NOT PASS JOINT	00:01:18	158	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2100	6	2	8	3	2	2.67



## Inspection report

Date: <b>20110328</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>918</b>	PSR: <b>87756</b>
Total Pipe Length: <b>145</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/28/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2390</b>

Street: <b>EASEMENT</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2390-0221</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2390-0217</b>
Location Code: <b>D Easement/Right of Way</b>	Tape/Media #:	Total length surveyed: <b>142.58 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>145</b>
Drain. Area: <b>0217/2390-0221/2390</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:350	position	code	observation	MPEG	photo	grade
			<b>2390-0221</b>			
	0.00	AMH	Upstream Manhole, Survey Begins 2390-0221	00:00:08	111	
	0.00	MWL	Water Level, 5 % of cross sectional area	00:00:17		
	0.00	MWM	Water Mark, 5 % of cross sectional area	00:00:20		M 2
	4.91	VC	Vermin Cockroach	00:00:36		M 1
	9.42	TFC	Tap Factory Made Capped, at 02 o'clock, 6", within 8 inch: YES	00:00:49	112	
	10.32	VZ	Vermin Other, 1, Remark: LIZARD, within 8 inch: NO	00:01:07	113	M 1
	31.66	TFC	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:01:47	114	
	87.17	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:03:15	115	
	103.00	RFJ	Roots Fine Joint, from 10 to 02 o'clock, within 8 inch: YES	00:03:57	116, b	M 1
	107.31	RMJ	Roots Medium Joint, from 08 to 10 o'clock, 5 %, within 8 inch: YES	00:04:16	118, b	M 3
	112.62	RFJ	Roots Fine Joint, from 02 to 05 o'clock, within 8 inch: YES	00:04:30	120, b	M 1
	117.63	RMJ	Roots Medium Joint, from 11 to 03 o'clock, 5 %, within 8 inch: YES	00:04:46	122, b	M 3
	122.84	RMJ	Roots Medium Joint, at 09 o'clock, 5 %, within 8 inch: YES	00:05:07	124, b	M 3
	130.76	RMJ	Roots Medium Joint, from 11 to 03 o'clock, 5 %, within 8 inch: YES	00:05:36	126, b	M 3
	135.27	RFJ	Roots Fine Joint, from 09 to 02 o'clock, within 8 inch: YES	00:06:12	128, b	M 1
	142.58	MSA	Survey Abandoned, Remark: CAMERA WILL NOT GO PAST BEND	00:09:24	130	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	3421	0	19	19	0	1.9	1.9



## Inspection report

Date: <b>20110218</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B FUGATE</b>	section number: <b>109</b>	PSR: <b>85802</b>
Total Pipe Length: <b>338</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/18/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

Street: <b>SAPPHIRE CANYON RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0061</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0049</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>345.47 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>338</b>
Drain. Area: <b>0049/2432-0061/2432</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:850	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0061		106	
	0.00	MWL	Water Level, 5 % of cross sectional area			
	0.00	MWM	Water Mark, 5 % of cross sectional area			M 2
	5.93	TFA	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:00:42	107	
	13.41	TFA	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:03	108	
	75.70	TFA	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:48	109	
	83.28	TFA	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:13	110	
	130.51	TFA	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:06	111	
	143.14	TFA	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:43	112	
	144.02	FM	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:06:53	113, b	S 4
	190.28	TFA	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:38	115	
	212.53	TFA	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:40	116	
	259.95	TFA	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:42	117	
	260.92	CC	Crack Circumferential, from 11 to 04 o'clock, within 8 inch: YES	00:11:53	118, b	S 1
	267.34	TFA	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:16	120	
	345.47	AMH	Downstream Manhole, Survey Ends 2432-0049	00:16:06	121	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4111	2100	5	2	7	2.5	2	2.33



## Inspection report

Date: <b>20110225</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A. OBRIEN</b>	section number: <b>238</b>	PSR: <b>85752</b>
Total Pipe Length: <b>193</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/25/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

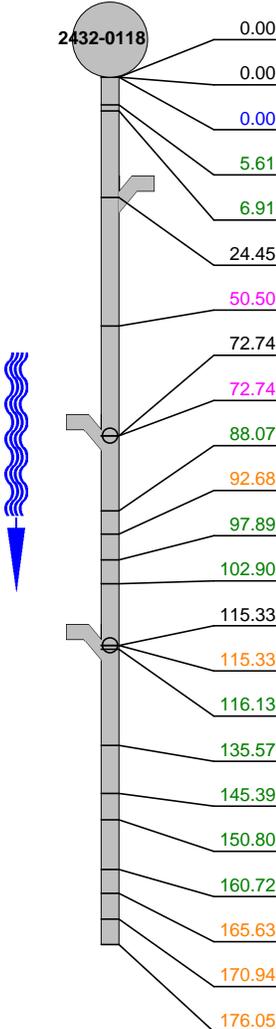
Street: <b>DEL SOL LN</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0118</b>
City: <b>DIA</b>	Year Renewed	End MH: <b>2432-0117</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>199.69 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>193</b>
Drain. Area: <b>0117/2432-0118/2432</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:465	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0118	00:00:00	368	
	0.00	MWL	Water Level, 5 % of cross sectional area	00:00:28		
	0.00	MWM	Water Mark, 5 % of cross sectional area	00:00:31		M 2
	5.61	RFJ	Roots Fine Joint, from 08 to 11 o'clock, within 8 inch: YES	00:00:54	369, b	M 1
	6.91	RFJ	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:01:09	371, b	M 1
	24.45	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:01:47	373	
	50.50	IR	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:02:40	374, b	M 4
	72.74	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:03:50	376	
	72.74	RBL	Roots Ball Lateral, from 12 to 12 o'clock, 85 %, within 8 inch: YES	00:03:55	377	M 4
	88.07	RFJ	Roots Fine Joint, from 01 to 04 o'clock, within 8 inch: YES	00:04:27	378, b	M 1
	92.68	RMJ	Roots Medium Joint, from 09 to 04 o'clock, 5 %, within 8 inch: YES	00:04:56	380, b	M 3
	97.89	RFJ	Roots Fine Joint, from 01 to 03 o'clock, within 8 inch: YES	00:05:18	382, b	M 1
	102.90	RFJ	Roots Fine Joint, from 02 to 09 o'clock, within 8 inch: YES	00:05:48	384, b	M 1
	115.33	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:06:20	386	
	115.33	RML	Roots Medium Lateral, from 04 to 11 o'clock, 25 %, within 8 inch: YES	00:06:26	387	M 3
	116.13	RFJ	Roots Fine Joint, from 10 to 05 o'clock, within 8 inch: YES	00:06:43	388, b	M 1
	135.57	RFJ	Roots Fine Joint, from 12 to 01 o'clock, within 8 inch: YES	00:07:24	390, b	M 1
	145.39	RFJ	Roots Fine Joint, from 07 to 02 o'clock, within 8 inch: YES	00:08:00	392, b	M 1
	150.80	RFJ	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:08:26	394, b	M 1
	160.72	RFJ	Roots Fine Joint, from 07 to 04 o'clock, within 8 inch: YES	00:08:57	396, b	M 1
	165.63	RMJ	Roots Medium Joint, from 07 to 04 o'clock, 5 %, within 8 inch: YES	00:09:22	398, b	M 3
	170.94	RMJ	Roots Medium Joint, from 08 to 05 o'clock, 10 %, within 8 inch: YES	00:09:50	400, b	M 3
	176.05	RMJ	Roots Medium Joint, from 08 to 04 o'clock, 5 %, within 8 inch: YES	00:10:11	402, b	M 3



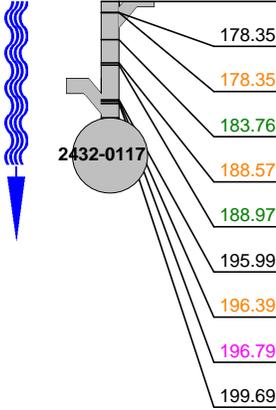


## Inspection report

Date: <b>20110225</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A. OBRIEN</b>	section number: <b>238</b>	PSR: <b>85752</b>
Total Pipe Length: <b>193</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/25/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

1:465	position	code	observation	MPEG	photo	grade
	176.05	RMJ	Roots Medium Joint, from 08 to 04 o'clock, 5 %, within 8 inch: YES	00:10:11	402, b	M 3
	178.35	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:10:36	404	
	178.35	RMJ	Roots Medium Joint, from 12 to 12 o'clock, 20 %, within 8 inch: YES	00:10:43	405	M 3
	183.76	RFJ	Roots Fine Joint, from 02 to 04 o'clock, within 8 inch: YES	00:11:05	406, b	M 1
	188.57	RMJ	Roots Medium Joint, from 08 to 04 o'clock, 10 %, within 8 inch: YES	00:11:32	408, b	M 3
	188.97	JOM	Joint Offset Medium	00:11:46	410, b	S 1
	195.99	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:12:17	412	
	196.39	RMJ	Roots Medium Joint, from 02 to 05 o'clock, 10 %, within 8 inch: YES	00:12:30	413, b	M 3
	196.79	FM	Fracture Multiple, from 05 to 10 o'clock, within 8 inch: YES	00:12:45	415, b	S 4
	199.69	AMH	Downstream Manhole, Survey Ends 2432-0117	00:13:25	417	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4111	4238	5	45	50	2.5	2.05	2.08







## Inspection report

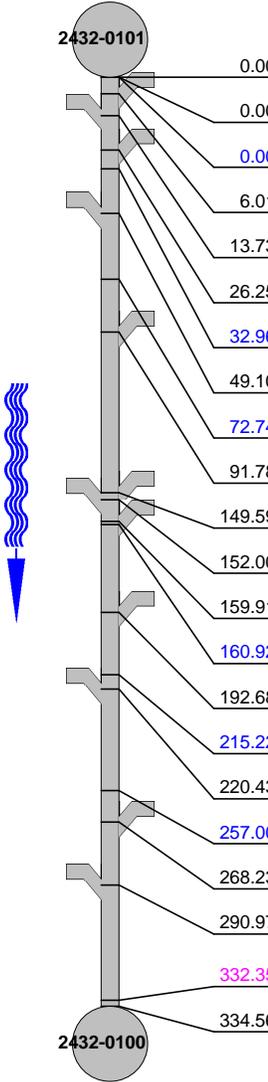
Date: <b>20110221</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A. OBRIEN</b>	section number: <b>54</b>	PSR: <b>85733</b>
Total Pipe Length: <b>311</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/21/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

Street: <b>PLATINA DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0101</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0100</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>334.56 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>311</b>
Drain. Area: <b>0100/2432-0101/2432</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:825	position	code	observation	MPEG	photo	grade
						
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0101	00:00:00	178	
	0.00	MWL	Water Level, 5 % of cross sectional area	00:00:24		
	0.00	MWM	Water Mark, 5 % of cross sectional area	00:00:26		M 2
	6.01	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:00:44	179	
	13.73	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:01:07	180	
	26.25	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:01:43	181	
	32.96	S1 DAE	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o'clock, within 8 inch: YES, start	00:02:04	182, b	M 2
	49.10	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:02:33	184	
	72.74	F1 DAE	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o'clock, within 8 inch: YES, end	00:03:15	185	M 2
	91.78	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:03:44	186	
	149.59	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:05:04	187	
	152.00	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:05:19	188	
	159.91	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:05:41	189	
	160.92	S2 DAE	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o'clock, within 8 inch: YES, start	00:05:53	190, b	M 2
	192.68	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:06:46	192	
	215.22	F2 DAE	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o'clock, within 8 inch: YES, end	00:07:27	193	M 2
	220.43	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:07:44	194	
	257.00	DAE	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o'clock, within 8 inch: YES	00:08:43	195	M 2
	268.23	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:09:02	196	
	290.97	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:09:41	197	
	332.35	FM	Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:10:44	198, b	S 4
	334.56	AMH	Downstream Manhole, Survey Ends 2432-0100	00:11:22	200	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2C00	4	42	46	4	2	2.09









## Inspection report

Date: <b>20110228</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A. OBRIEN</b>	section number: <b>235</b>	PSR: <b>85749</b>
Total Pipe Length: <b>307</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>02/28/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

Street: <b>DECORAH RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0133</b>
City: <b>DIA</b>	Year Renewed	End MH: <b>2432-0115</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>308.91 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>307</b>
Drain. Area: <b>0115/2432-0133/2432</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:775	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0133		575	
	0.00	MWL	Water Level, 5 % of cross sectional area	00:00:23		
	0.00	MWM	Water Mark, 5 % of cross sectional area	00:00:26		M 2
	40.87	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:01:26	576	
	43.48	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:01:40	577	
	97.31	S1 DAE	Deposits Attached Encrustation, 5 % of cross sectional area, from 08 to 04 o'clock, within 8 inch: YES, Start	00:02:53	578, b	M 2
	106.95	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:03:51	580	
	119.71	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:04:13	581	
	173.34	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:05:28	582	
	180.97	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:05:51	583	
	234.40	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:07:22	584	
	252.27	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:08:08	585	
	261.21	F1 DAE	Deposits Attached Encrustation, 5 % of cross sectional area, from 08 to 04 o'clock, within 8 inch: YES, end	00:08:46	586	M 2
	305.80	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:09:57	587	
	306.90	FM	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:10:23	588, b	S 4
	308.91	AMH	Downstream Manhole, Survey Ends 2432-0115	00:11:43	590	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2300	4	6	10	4	2	2.5



## Inspection report

Date: <b>20110301</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A. OBRIEN</b>	section number: <b>270</b>	PSR: <b>85622</b>
Total Pipe Length: <b>208</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/01/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

Street: <b>SEAGREEN DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0220</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0221</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>179.86 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>208</b>
Drain. Area: <b>0220/2432-0221/2432</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:450	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0220			95
	18.28	TFA	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:01:01		96
	26.61	TFA	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:01:33		97
	26.61	RBL	Roots Ball Lateral, from 12 to 12 o'clock, 65 %, within 8 inch: YES	00:01:40	98	M 4
	26.61	MWL	Water Level, 5 % of cross sectional area	00:01:52		
	26.61	MWM	Water Mark, 5 % of cross sectional area	00:01:53		M 2
	79.44	TFA	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:03:00		99
	79.44	RMC	Roots Medium Connection, from 12 to 12 o'clock, 10 %, within 8 inch: YES	00:03:08	100, b	M 3
	98.92	TFA	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:03:52		102
	152.05	TFA	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:05:16		103
	171.33	TFA	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:05:50		104
	178.26	FM	Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:06:24	105, b	S 4
	179.86	AMH	Downstream Manhole, Survey Ends 2432-0221	00:07:00		107

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	4131	4	9	13	4	3	3.25



## Inspection report

Date: <b>20110301</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A. OBRIEN</b>	section number: <b>275</b>	PSR: <b>85472</b>
Total Pipe Length: <b>264</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/01/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

Street: <b>SEAGREEN DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0300</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0299</b>
Location Code: <b>C Light Highway</b>	Tap/Media #:	Total length surveyed: <b>274.37 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>264</b>
Drain. Area: <b>0299/2432-0300/2432</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:675	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0300		71	
	0.00	MWL	Water Level, 5 % of cross sectional area	00:00:23		
	0.00	MWM	Water Mark, 5 % of cross sectional area	00:00:26		M 2
	17.47	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:01:01	72	
	81.85	TFA	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:02:21	73	
	90.18	TFA	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:02:41	74	
	137.89	TFA	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:03:41	75	
	180.27	TFA	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:04:48	76	
	211.30	TFA	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:05:36	77	
	240.42	FM	Fracture Multiple, from 12 to 07 o'clock, within 8 inch: YES	00:06:23	78, b	S 4
	259.40	TFA	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:07:04	80	
	274.37	AMH	Downstream Manhole, Survey Ends 2432-0299	00:07:44	81	

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





## Inspection report

Date: <b>20110304</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>305</b>	PSR: <b>85614</b>
Total Pipe Length: <b>289</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/04/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

Street: <b>HIGH KNOB RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0214</b>
City: <b>DIA</b>	Year Renewed	End MH: <b>2432-0213</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>229.15 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>289</b>
Drain. Area: <b>0213/2432-0214/2432</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:575	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0214	00:00:00	43	
	0.00	MWL	Water Level, 10 % of cross sectional area	00:00:29		
	0.00	MWM	Water Mark, 10 % of cross sectional area	00:00:31		M 2
	7.01	S1 DAE	Deposits Attached Encrustation, 5 % of cross sectional area, from 08 to 04 o'clock, within 8 inch: YES, start	00:00:46	44, b	M 2
	53.81	MWLS	Water Level, Sag in pipe, 15 % of cross sectional area	00:02:04	46	M 2
	78.65	TFA	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES	00:02:48	47	
	92.18	F1 DAE	Deposits Attached Encrustation, 5 % of cross sectional area, from 08 to 04 o'clock, within 8 inch: YES, end	00:03:16	48	M 2
	108.81	S2 DAE	Deposits Attached Encrustation, 5 % of cross sectional area, from 08 to 04 o'clock, within 8 inch: YES, start	00:03:48	49, b	M 2
	126.15	F2 DAE	Deposits Attached Encrustation, 5 % of cross sectional area, from 08 to 04 o'clock, within 8 inch: YES, end	00:04:21	51	M 2
	160.82	DAE	Deposits Attached Encrustation, 5 of cross sectional area, from 08 to 04 o'clock, within 8 inch: YES	00:05:18	52	M 2
	160.82	ID	Infiltration Dripper, from 11 to 01 o'clock, within 8 inch: YES	00:05:21	53, b	M 3
	163.52	FM	Fracture Multiple, from 05 to 01 o'clock, within 8 inch: YES	00:06:11	55, b	S 4
	164.82	TFA	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:06:30	57	
	216.33	TFA	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:07:47	58	
	229.15	AMH	Downstream Manhole, Survey Ends 2432-0213	00:08:28	59	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	312C	4	49	53	4	2.04	2.12



## Inspection report

Date: <b>20110304</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>308</b>	PSR: <b>85618</b>
Total Pipe Length: <b>309</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/04/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

Street: <b>HIGH KNOB RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0215</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0234</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>306.6 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>309</b>
Drain. Area: <b>0215/2432-0234/2432</b>	Lining:
	Category:

Comment: **TVed Upstream**

Location details:

1:750	position	code	observation	MPEG	photo	grade
			<b>2432-0215</b>			
	0.00	AMH	Downstream Manhole, Survey Begins 2432-0215	00:00:00	8	
	0.00	MWLS	Water Level, Sag in pipe, 50 of cross sectional area	00:00:35		M 3
	0.00	MWM	Water Mark, 50 % of cross sectional area	00:00:37		M 3
	4.91	FM	Fracture Multiple, from 11 to 01 o'clock, within 8 inch: YES	00:00:40	9, b	S 4
	9.82	MWL	Water Level, 5 % of cross sectional area	00:01:17		
	24.45	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:01:39	11	
	94.39	TFA	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:03:15	12	
	168.83	TFA	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:05:00	13	
	237.97	TFA	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:06:34	14	
	243.68	MWLS	Water Level, Sag in pipe, 10 % of cross sectional area	00:06:50	15, b	M 2
	306.60	AMH	Upstream Manhole, Survey Ends 2432-0234	00:08:26	17	
			<b>2432-0234</b>			

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	3221	4	8	12	4	2.67	3



National Plant Services Inc.  
 1461 Harbor Ave  
 Long Beach, CA 90813  
 Tel: (562) 436-7600, Fax: (562) 495-1528

## Inspection report

Date: <b>20110314</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>610</b>	PSR: <b>85554</b>
Total Pipe Length: <b>379</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/14/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

Street: <b>GOLDEN SPRINGS DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0269</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0270</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>344.48 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 12/12</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>379</b>
Drain. Area: <b>0269/2432-0270/2432</b>	Lining:
	Category:

Comment: **INFILTRATION**

Location details:

1:850	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0269	00:00:00	167	
	0.00	MWL	Water Level, 10 % of cross sectional area	00:00:20		
	0.00	MWM	Water Mark, 15 % of cross sectional area	00:00:22		M 2
	9.62	S1 IR	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES, Start	00:01:02	168, b	M 4
	305.90	FM	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:06:40	170, b	S 4
	340.47	RFJ	Roots Fine Joint, from 08 to 10 o'clock, within 8 inch: YES	00:07:37	172, b	M 1
	340.97	F1 IR	Infiltration Runner, , within 8 inch: YES, end	00:07:53	174	M 4
	344.48	AMH	Downstream Manhole, Survey Ends 2432-0270	00:08:16	175	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	4221	4	11	15	4	2.75	3



## Inspection report

Date: <b>20110316</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>680</b>	PSR: <b>85670</b>
Total Pipe Length: <b>296</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/16/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2433</b>

Street: <b>MEADOW FALLS DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0155</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2433-0002</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>227.45 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>296</b>
Drain. Area: <b>0002/2433-0155/2432</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:575	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0155	00:00:00	61	
	0.00	MWL	Water Level, 5 % of cross sectional area	00:00:19		
	0.00	MWM	Water Mark, 5 % of cross sectional area	00:00:22		M 2
	23.85	RFJ	Roots Fine Joint, at 02 o'clock, within 8 inch: YES	00:00:58	62, b	M 1
	63.02	RFJ	Roots Fine Joint, from 10 to 04 o'clock, within 8 inch: YES	00:02:08	64, b	M 1
	64.53	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:02:32	66	
	64.53	RBC	Roots Ball Connection, from 12 to 12 o'clock, 100, within 8 inch: YES	00:02:37	67, b	M 4
	65.63	RMJ	Roots Medium Joint, from 04 to 09 o'clock, 5 %, within 8 inch: YES	00:03:04	69, b	M 3
	67.23	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:03:20	71	
	101.50	RMJ	Roots Medium Joint, from 01 to 09 o'clock, 5 %, within 8 inch: YES	00:04:16	72, b	M 3
	118.33	RFJ	Roots Fine Joint, from 07 to 09 o'clock, within 8 inch: YES	00:04:59	74, b	M 1
	154.20	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:06:09	76	
	154.80	RMJ	Roots Medium Joint, from 03 to 09 o'clock, 5 %, within 8 inch: YES	00:06:21	77, b	M 3
	164.82	RMJ	Roots Medium Joint, from 01 to 09 o'clock, 10 %, within 8 inch: YES	00:06:43	79, b	M 3
	168.53	RMJ	Roots Medium Joint, from 07 to 09 o'clock, 5 %, within 8 inch: YES	00:07:11	81, b	M 3
	170.23	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:07:30	83	
	170.23	RFJ	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:07:34	84	M 1
	204.40	RMJ	Roots Medium Joint, from 09 to 03 o'clock, 20 %, within 8 inch: YES	00:08:21	85, b	M 3
	207.71	RTJ	Roots Tap Joint, from 12 to 01 o'clock, 15 %, within 8 inch: YES	00:08:50	87, b	M 2
	208.41	FM	Fracture Multiple, from 01 to 05 o'clock, within 8 inch: YES	00:09:18	89, b	S 4
	209.61	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:09:41	91	
	209.61	RFL	Roots Fine Lateral, from 12 to 12 o'clock, within 8 inch: YES	00:09:45	92	M 1
	222.44	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:10:14	93	
	222.44	RFL	Roots Fine Lateral, from 12 to 12 o'clock, within 8 inch: YES	00:10:18	94	M 1
	227.45	AMH	Downstream Manhole, Survey Ends 2433-0002	00:10:51	95	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	4136	4	32	36	4	2.13	2.25



## Inspection report

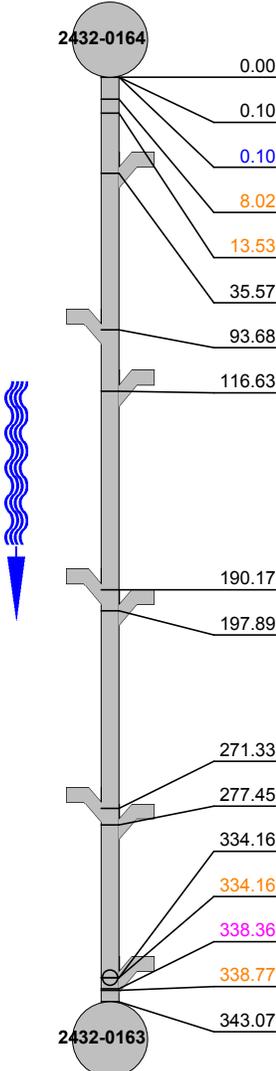
Date: <b>20110317</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>711</b>	PSR: <b>85678</b>
Total Pipe Length: <b>356</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/17/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

Street: <b>MEADOW FALLS DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0164</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0163</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>343.07 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>356</b>
Drain. Area: <b>0163/2432-0164/2432</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:850	position	code	observation	MPEG	photo	grade
						
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0164	00:00:00	104	
	0.10	MWL	Water Level, 5 % of cross sectional area	00:00:17		
	0.10	MWM	Water Mark, 5 of cross sectional area	00:00:18		M 2
	8.02	RMJ	Roots Medium Joint, from 05 to 01 o'clock, 30 %, within 8 inch: YES	00:00:35	105, b	M 3
	13.53	RMJ	Roots Medium Joint, from 07 to 05 o'clock, 5 %, within 8 inch: YES	00:01:02	107, b	M 3
	35.57	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:01:41	109	
	93.68	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:02:54	110	
	116.63	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:03:27	111	
	190.17	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:05:06	112	
	197.89	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:05:25	113	
	271.33	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:06:59	114	
	277.45	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:07:18	115	
	334.16	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:08:36	116	
	334.16	RMC	Roots Medium Connection, from 12 to 12 o'clock, 15, within 8 inch: YES	00:08:39	117, b	M 3
	338.36	FM	Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:08:59	119, b	S 4
	338.77	RMJ	Roots Medium Joint, from 02 to 09 o'clock, 5 %, within 8 inch: YES	00:09:18	121, b	M 3
	343.07	AMH	Downstream Manhole, Survey Ends 2432-0163	00:09:46	123	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	3421	4	14	18	4	2.8	3



## Inspection report

Date: <b>20110318</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>725</b>	PSR: <b>88075</b>
Total Pipe Length: <b>353</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/18/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

Street: <b>PALOMINO DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0148</b>
City: <b>DIA</b>	Year Renewed	End MH: <b>2389-0306</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>269.33 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>353</b>
Drain. Area: <b>0148/2432-0306/2389</b>	Lining:
	Category:

Comment: **ROOTS**

Location details:

1:589	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0148	00:00:00	1	
	0.00	MWL	Water Level, 5 % of cross sectional area	00:00:20		
	0.00	MWM	Water Mark, 5 % of cross sectional area	00:00:22		M 2
	18.84	RFJ	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:00:58	2, b	M 1
	18.84	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:01:16	4	
	18.84	RML	Roots Medium Lateral, from 07 to 12 o'clock, 20 %, within 8 inch: YES	00:01:19	5	M 3
	67.23	RFJ	Roots Fine Joint, from 09 to 04 o'clock, within 8 inch: YES	00:02:26	6, b	M 1
	74.05	RFJ	Roots Fine Joint, from 08 to 02 o'clock, within 8 inch: YES	00:02:55	8, b	M 1
	83.96	RFJ	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:03:18	10, b	M 1
	87.47	RFJ	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:03:38	12, b	M 1
	90.58	RFJ	Roots Fine Joint, from 09 to 03 o'clock, within 8 inch: YES	00:03:56	14, b	M 1
	91.38	FM	Fracture Multiple, from 07 to 01 o'clock, within 8 inch: YES	00:04:17	16, b	S 4
	92.78	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:04:44	18	
	92.78	RFL	Roots Fine Lateral, from 04 to 09 o'clock, within 8 inch: YES	00:04:49	19	M 1
	151.60	RFJ	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:06:12	20, b	M 1
	155.10	RFJ	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:06:42	22, b	M 1
	159.91	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:07:04	24	
	159.91	RMJ	Roots Medium Joint, from 01 to 08 o'clock, 20 %, within 8 inch: YES	00:07:13	25	M 3
	177.15	RFJ	Roots Fine Joint, from 03 to 05 o'clock, within 8 inch: YES	00:08:00	26, b	M 1
	195.08	RFJ	Roots Fine Joint, from 09 to 03 o'clock, within 8 inch: YES	00:08:44	28, b	M 1
	211.42	RFJ	Roots Fine Joint, from 09 to 03 o'clock, within 8 inch: YES	00:09:21	30, b	M 1
	228.75	RFJ	Roots Fine Joint, from 03 to 10 o'clock, within 8 inch: YES	00:10:09	32, b	M 1
	231.86	RFJ	Roots Fine Joint, from 08 to 03 o'clock, within 8 inch: YES	00:10:32	34, b	M 1



## Inspection report

Date: <b>20110318</b>	P.O.#: <b>YOTV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>725</b>	PSR: <b>88075</b>
Total Pipe Length: <b>353</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/18/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

1:589	position	code	observation	MPEG	photo	grade
	<u>231.86</u>	RFJ	Roots Fine Joint, from 08 to 03 o'clock, within 8 inch: YES	00:10:32	34, b	M 1
	<u>237.27</u>	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:11:11	36	
	<u>237.27</u>	RML	Roots Medium Lateral, from 12 to 12 o'clock, 50 %, within 8 inch: YES	00:11:16	37	M 3
	<u>237.57</u>	RFJ	Roots Fine Joint, from 09 to 01 o'clock, within 8 inch: YES	00:11:34	38, b	M 1
	<u>258.41</u>	RMJ	Roots Medium Joint, from 08 to 03 o'clock, 5 %, within 8 inch: YES	00:12:21	40, b	M 3
	<u>269.33</u>	AMH	Downstream Manhole, Survey Ends 2389-0306	00:12:59	42	







## Inspection report

Date: <b>20110324</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>883</b>	PSR: <b>85758</b>
Total Pipe Length: <b>366</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/24/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

Street: <b>DIAMOND BAR BV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0009</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2432-0008</b>
Location Code: <b>A Main Highway - Urban</b>	Tape/Media #:	Total length surveyed: <b>346.98 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>366</b>
Drain. Area: <b>0008/2432-0009/2432</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:850	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0009	00:00:00	83	
	0.00	MWL	Water Level, 5 % of cross sectional area	00:00:16		
	0.00	MWM	Water Mark, 5 % of cross sectional area	00:00:18		M 2
	95.79	IR	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:02:15	84, b	M 4
	107.71	IR	Infiltration Runner, from 07 to 08 o'clock, within 8 inch: YES	00:02:41	86, b	M 4
	210.41	IR	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:04:42	88, b	M 4
	241.98	FM	Fracture Multiple, from 03 to 08 o'clock, within 8 inch: YES	00:05:29	90, b	S 4
	338.36	IR	Infiltration Runner, at 04 o'clock, within 8 inch: YES	00:07:38	92, b	M 4
	346.98	AMH	Downstream Manhole, Survey Ends 2432-0008	00:08:11	94	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	4421	4	18	22	4	3.6	3.67



## Inspection report

Date: <b>20110328</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>A.OBRIEN</b>	section number: <b>916</b>	PSR: <b>88145</b>
Total Pipe Length: <b>305</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>03/28/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2389</b>

Street: <b>EASEMENT</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2389-0265</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2389-0264</b>
Location Code: <b>D Easement/Right of Way</b>	Tape/Media #:	Total length surveyed: <b>302.69 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 15/15</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>305</b>
Drain. Area: <b>0264/2389-0265/2389</b>	Lining:
	Category:

Comment: **NONE**

Location details:

1:750	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0265	00:00:00	1	
	0.00	MWL	Water Level, 10 % of cross sectional area	00:00:23		
	0.00	MWM	Water Mark, 10 % of cross sectional area	00:00:26		M 2
	0.90	FM	Fracture Multiple, from 08 to 12 o'clock, within 8 inch: YES	00:00:36	2, b	S 4
	36.97	TFC	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:02:09	4	
	75.15	IR	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:03:02	5, b	M 4
	88.07	TFC	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:03:26	7	
	123.34	TFA	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:04:18	8	
	138.67	TFC	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:04:46	9	
	150.70	S1 IR	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES, start	00:05:21	10, b	M 4
	168.23	F1 IR	Infiltration Runner, , within 8 inch: YES, end	00:05:59		M 4
	179.55	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:06:34	12	
	191.58	IR	Infiltration Runner, at 04 o'clock, within 8 inch: YES	00:07:01	13, b	M 4
	197.19	IR	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:07:21	15, b	M 4
	211.82	IR	Infiltration Runner, from 07 to 08 o'clock, within 8 inch: YES	00:07:56	17, b	M 4
	216.53	IR	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:08:18	19, b	M 4
	230.15	TFC	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	00:08:45	21	
	237.47	IR	Infiltration Runner, at 04 o'clock, within 8 inch: YES	00:09:06	22, b	M 4
	241.88	IR	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:09:22	24, b	M 4
	257.31	IR	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:09:50	26, b	M 4
	262.82	IR	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:10:08	28, b	M 4
	272.54	IR	Infiltration Runner, from 04 to 08 o'clock, within 8 inch: YES	00:10:32	30, b	M 4
	281.25	TFA	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:10:53	32	
	302.69	AMH	Downstream Manhole, Survey Ends 2432-0264	00:11:48	33	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	4A21	4	58	62	4	3.87	3.88



## Inspection report

Date: <b>20110720</b>	P.O.#: <b>YOTV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J.SALAS</b>	section number: <b>3342</b>	PSR: <b>85778</b>
Total Pipe Length: <b>337</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>07/20/2011</b>	Pre-Cleaned: <b>J Jetting</b>	rate: <b>2432</b>

Street: <b>OVERLOOK RIDGE RD</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2432-0024</b>
City: <b>DIA YOTV1011A</b>	Year Renewed:	End MH: <b>2432-0045</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	Total length surveyed: <b>340.41 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Joint length: <b>337</b>
Drain. Area: <b>0024/2432-0045/2432</b>	Lining:
	Category:

Comment: **FRACTURE**

Location details:

1:850	position	code	observation	MPEG	photo	grade
	0.00	AMH	Upstream Manhole, Survey Begins 2432-0024		1	
	0.00	MWL	Water Level, 5 % of cross sectional area			
	0.00	MWM	Water Mark, 5 % of cross sectional area			M 2
	7.85	FM	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:01:15	2, b	S 4
	30.28	RML	Roots Medium Lateral, from 12 to 12 o'clock, 25 %, within 8 inch: YES	00:02:02	4, b	M 3
	30.28	TFA	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:05	6	
	90.96	TFA	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:39	7	
	169.18	TFA	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:38	8	
	191.87	TFA	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:17	9	
	229.68	TFA	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:19	10	
	237.18	TFA	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:35	11	
	269.96	TFA	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:29	12	
	284.62	TFA	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:57	13	
	340.41	AMH	Downstream Manhole, Survey Ends 2432-0045	00:10:45	14	

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