

April 13, 2011

TO Nicholas Agbobu
Engineering, Budget, and Office Operations

FROM: Robert Swartz
Field Operations

**CONSOLIDATED SEWER MAINTENANCE DISTRICT
CONDITION ASSESSMENT PROGRAM REPORT
PROJECT Y0TV0809D**

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District (District) has completed the closed-circuit television (CCTV) inspection of 115,076 feet or approximately 5.4 percent of the sewer system within Unincorporated County maintained by the District's South Yard

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

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

The Condition Assessment Report will provide details regarding the maintenance and structural condition of our sewer mainlines. This information can be included in our agency's Sewer System Management Plan as a reference in Chapter 8 0, System Evaluation and Capacity Assurance Plan The segments with critical maintenance issues have been cleaned and, in some instances, have been incorporated into our routine cleaning schedule for continued monitoring In addition, the segments with severe structural defects have either been repaired or will be scheduled for repair as part of the ongoing Accumulative Capital Outlay Program

HK

Attach.
bc: RS, FV, File (Y0TV0809D)

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

PROJECT NAME:	Y0TV0809D	PROJECT MGR:	Eric Liu
PROJECT DATE:	07/08/2009	CONTACT NO:	(626) 300-3369
SUP. DISTRICT(S):	2 □ 4	MAP PAGE(S):	1598,1705 □1706
Report By:	Hanna Kebede	Report Date:	03/29/2011

INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 115,076 feet or approximately 5.4 percent of the Unincorporated Los Angeles County sewer system maintained by the District's South Yard.

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

PROJECT AREA AND DESCRIPTION

Project Y0TV0809D included sewer lines located in the Unincorporated County of Los Angeles area and in the Cities of Carson, Palmdale, Palos Verdes Estates and Rolling Hills Estates. Enclosed for your reference is an overview map of the project area within the unincorporated County area (Enclosure 1).

DEFECT GRADE DESCRIPTION

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

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

MAINTENANCE REPORT

Our inspection revealed that approximately 74 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 26 percent of the inspected pipe segments within the Unincorporated County of Los Angeles area had a PACP maintenance grade of 3, 4 or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our routine cleaning schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2).

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

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

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	76,778	66.7	368
2: Good	8,427	7.3	35
3: Fair	12,089	10.5	48
4: Poor	16,445	14.3	62
5: Immediate Attention	1,337	1.2	6
TOTAL	115,076	100.0	519

High Water Levels

Our inspection revealed that approximately 97.1 percent of the system televised has adequate capacity. However, the remaining 2.9 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 of camera underwater or sags in the line. A sewer pipe can be considered at capacity when 50% of the diameter of sewer pipe is full of water. However, there are particular conditions in which the water level or water mark has reached 50% or greater due to heavy flows in adjoining pipes, a restriction due to debris in the sewer lines, or a sag in the line. Therefore, additional review of all pipe segments with such high water level concerns was conducted to determine capacity issues, if any. All sewer pipes where Water Level, Water Mark, and miscellaneous remarks of camera

underwater or sags in the line are at or above 50% capacity, have been outlined and analyzed on the High Water Level table in Enclosure 2. The nature of these high water level conditions is also summarized on this table.

Infiltration

Our inspection revealed that approximately 0.3 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 has been 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 the ongoing Accumulative Capital Outlay Project.

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

STRUCTURAL REPORT

Our inspection revealed that approximately 98 percent of the inspected pipe segments within the Unincorporated County of Los Angeles were free of severe structural defects. However, the remaining 2 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. Items 1 through 11 in the Quick Structural Rating Report Priority List (Enclosure 3) which require a corrective action, the proposed corrective method will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. Copies of the actual inspection report for these 11 segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	89,522	77.8	412
2: Good	18,251	15.9	77
3: Fair	4,905	4.3	19
4: Poor	978	0.8	4
5: Immediate Attention	1420	1.2	7
TOTAL	115,076	100.0	519

FUTURE PROJECTS

The Sewer Condition Assessment Program will be performing future closed-circuit television (CCTV) inspection of the remaining sewer lines within the Unincorporated County of Los Angeles maintained by the South Yard. For your reference, the CCTV Sewer Inspection project schedule is listed in Enclosure 5.

ENCLOSURE 1:

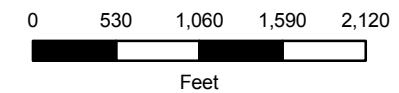
Project Overview Map

OVERVIEW MAP

CCTV PROJECT YOTV0809D

COUNTY UNINCORPORATED

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



Legend

SMD Sanitary Sewers



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

YOTV0809D

Map Description: This map shows the sewer network for the YOTV0809D project. It includes SMD Sanitary Sewers (orange arrows), SMD Manholes (various symbols), and other infrastructure like SMD Pump Stations (red 'P' in a square) and SMD Treatment Plants (WTP in a square). The map also shows Trunk Sewerlines (green dashed lines), Non SMD Sanitary Sewers (blue dashed lines), and Non SMD Maintained Manholes (green dots). The project area is outlined in red. Major streets like S-1705, S-1706, S-1761, S-1760, S-1651, S-1652, and S-1707 are labeled. The map covers the area between W 222nd St and W 257th St, and between W 224th St and W 257th St.

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

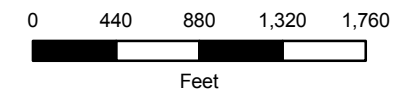
MARCH 2011

OVERVIEW MAP

CCTV PROJECT YOTV0809D

COUNTY
UNINCORPORATED

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



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

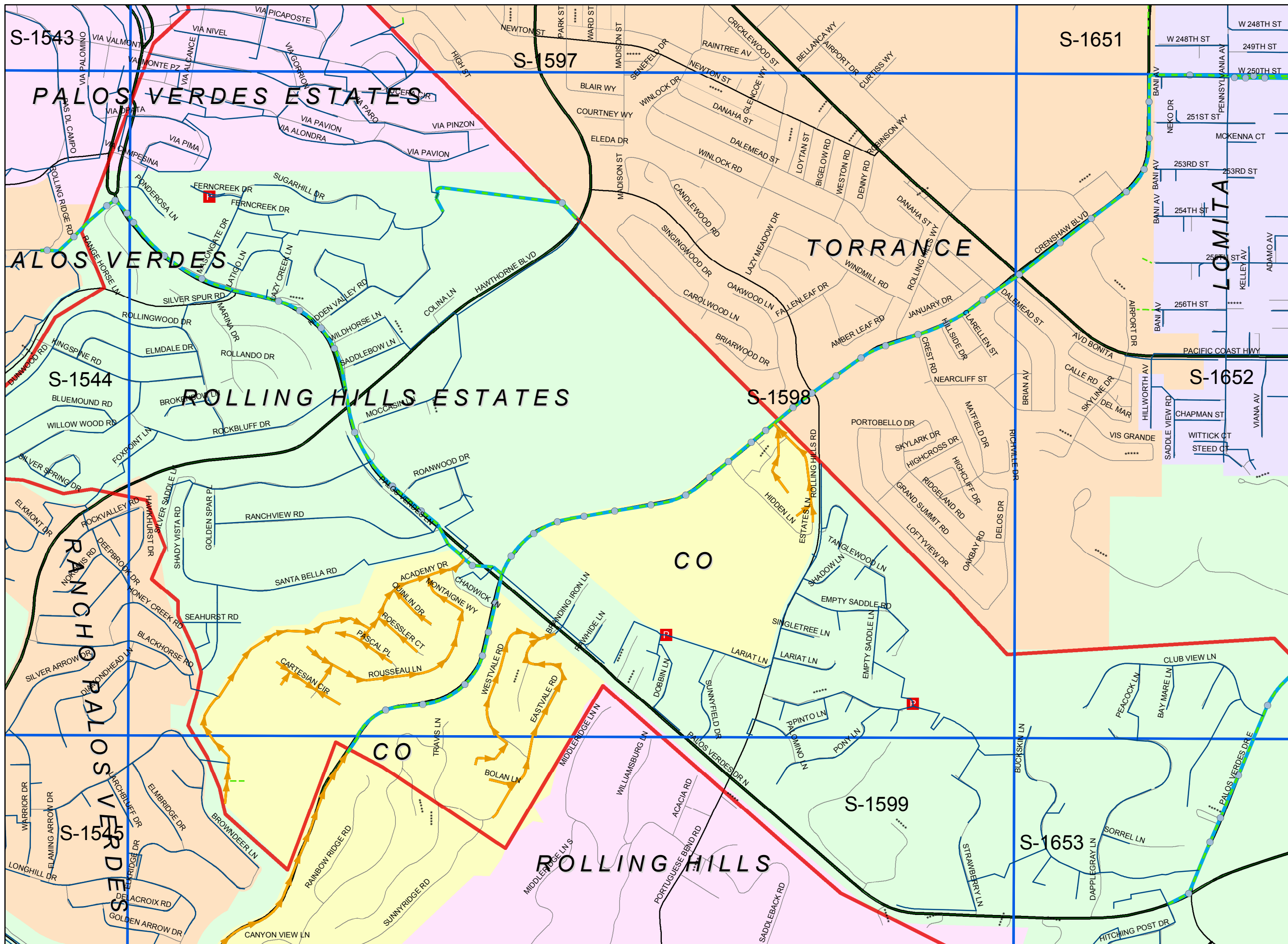
Non SMD Maintained MH

SMD Operations Maps

YOTV0809D

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MARCH 2011



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 REPORT PRIORITY LIST
COUNTY UNINCORPORATED SOUTH (Y0TV0809D)
as of 07/08/09

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	Corrective Action Taken	Completed Date
1	5141	1706-0074	1706-0073	STONEBRYN DR	Deposits (attached grease)	Rodded	12/10/2010
2	5132	1705-0228	1705-0192	MAXFIELD ST	Roots	Rodded	12/10/2010
3	5121	1706-0250	1706-0251	MARINERS PARK CONDOS	Deposits (attached grease)	Rodded	12/10/2010
4	5100	1705-0217	1705-0218	MEYLER ST	Deposits (attached encrustation)	Rodded	12/10/2010
5	5100	1705-0399	1705-0218	MEYLER ST	Deposits (attached encrustation)	Rodded	12/10/2010
6	5100	1706-0078	1706-0075	VERMONT AV	Deposits (attached encrustation)		
7	4A00	1706-0069	1706-0068	STONEBRYN DR	Water Level (70%)/camera underwater: 171'-201'	Hydrojet	12/10/2010
8	4526	1598-0238	1598-0242	ESTATES LN	Water Level (80%)/Sag: 254'-273'	Hydrojet	12/10/2010
9	4432	1598-0139	1598-0140	WESTVALE RD	Roots	Hydrojet	12/14/2010
10	441H	1599-0124	1599-0123	EASTVALE RD	Roots	Hydrojet	12/14/2010
11	4400	1706-0121	1706-TRNK	EASMENT BY PASATIEMPO LN	Water Level (75%)/Sag: 114'-128'	Hydrojet	12/10/2010
12	4331	1598-0138	1598-0139	WESTVALE RD	Roots	Hydrojet	12/10/2010
13	4331	1598-0140	1598-0141	WESTVALE RD	Roots	Hydrojet	12/10/2010
14	4331	1599-0123	1599-0121	EASTVALE RD	Roots	Hydrojet	12/10/2010
15	4331	1706-0098	1706-0097	ASHPARK LN	Roots	Hydrojet	12/10/2010
16	431A	1599-0116	1598-0138	WESTVALE RD	Roots	Hydrojet	12/10/2010
17	4315	1706-0077	1706-0076	SPRUCE LAKE DR	Roots	Hydrojet	12/10/2010
18	4235	1705-0229	1705-0228	MARIGOLD AV	Roots	Rodded	12/10/2010
19	4234	1706-0179	1706-0180	MEYLER AV	Deposits (attached grease); roots	Hydrojet	12/09/2010
20	4232	1598-0145	1598-0146	EASTVALE RD	Roots	Hydrojet	12/14/2010
21	4231	1706-0047	1706-0048	OAKHORNE DR	Deposits (attached grease); roots	Hydrojet	12/13/2010
22	4231	1598-0144	1598-0145	EASTVALE RD	Roots	Hydrojet	12/14/2010
23	4222	1598-0102	1598-0101	CARTESIAN CR	Construction debris (104'-114')	Hydrojet	12/14/2010
24	4216	1706-0172	1706-0173	ALEXANDRIA AV	Deposits (attached grease); roots	Hydrojet	12/13/2010
25	413A	1706-0073	1706-0072	STONEBRYN DR	Water Level (50%)/Sag; deposits	Hydrojet	12/14/2010
26	4136	1706-0187	1706-0186	BERENDO AV	Roots	Hydrojet	12/13/2010
27	4133	1599-0121	1598-0144	EASTVALE RD	Roots	Hydrojet	12/14/2010
28	4133	1706-0175	1706-0176	ALEXANDRIA AV	Water Level (20%)/Sag: 260'-299'; roots	Hydrojet	12/14/2010
29	4132	1705-0230	1705-0231	ALEXANDRIA AV	Root ball (lateral): 68',137' and 181'	Lateral notice will be sent to property owner.	
30	4132	1706-0048	1706-0049	OAKHORNE DR	Root ball (lateral): 222' and 285'	Lateral notice will be sent to property owner.	
31	4132	1706-0055	1706-0054	FERNREST DR	Root ball (lateral): 235'	Lateral notice will be sent to property owner.	
32	4132	1706-0085	1706-0084	SPRUCE LAKE DR	Root ball (lateral): 73'	Lateral notice will be sent to property owner.	
33	4132	1706-0209	1706-0210	232ND ST	Root ball (lateral): 38' and 139'	Lateral notice will be sent to property owner.	
34	4132	1706-0109	1706-0110	WOODBURY DR	Root ball (lateral): 32', 258' and 314'	Lateral notice will be sent to property owner.	
35	4132	1705-0230	1705-0231	ALEXANDRIA AV	Root ball (lateral): 68',137' and 181'	Lateral notice will be sent to property owner.	
36	4132	1706-0048	1706-0049	OAKHORNE DR	Root ball (lateral): 222' and 285'	Lateral notice will be sent to property owner.	
37	4132	1706-0055	1706-0054	FERNREST DR	Root ball (lateral): 235'	Lateral notice will be sent to property owner.	
38	4132	1706-0085	1706-0084	SPRUCE LAKE DR	Root ball (lateral): 73'	Lateral notice will be sent to property owner.	
39	4132	1706-0209	1706-0210	232ND ST	Root ball (lateral): 38' and 139'	Lateral notice will be sent to property owner.	
40	4131	1598-0141	1598-0142	WESTVALE RD	Root ball (lateral): 72'	Lateral notice will be sent to property owner.	
41	4131	1598-0148	1598-0149	EASTVALE RD	Root ball (lateral): 85'	Lateral notice will be sent to property owner.	
42	4131	1598-0142	1598-0143	WESTVALE RD	Root ball (lateral): 164'	Lateral notice will be sent to property owner.	
43	4131	1705-0464	1705-0229	MARIGOLD AV	Roots	Rodded	12/10/2010
44	4131	1705-0177	1705-0178	226TH ST	Roots	Rodded	12/10/2010
45	4131	1706-0049	1706-0050	OAKHORNE DR	Roots	Hydrojet	12/13/2010
46	4131	1598-0130	1598-0131	ACADEMY DR	Trap in MH 0131	Hydrojet	12/14/2010
47	4131	1598-0141	1598-0142	WESTVALE RD	Root ball (lateral)	Lateral notice will be sent to property owner.	
48	4131	1598-0148	1598-0149	EASTVALE RD	Root ball (lateral)	Lateral notice will be sent to property owner.	
49	4131	1598-0142	1598-0143	WESTVALE RD	Root ball (lateral)	Lateral notice will be sent to property owner.	
50	4131	1706-0167	1706-0168	MARIPOSA AV	Roots	Hydrojet	12/13/2010
51	4131	1706-0180	1706-0181	MEYLER AV	Roots	Hydrojet	12/09/2010
52	4131	1706-0183	1705-0170	BERENDO AV	Roots	Rodded	12/10/2010
53	4131	1706-0208	1706-0207	SOROCK DR	Roots	Hydrojet	12/13/2010
54	4131	1706-0204	1706-0203	GASTINE ST	Roots; infiltration (runner): 330'	Hydrojet	12/13/2010
55	4131	1706-0092A	1706-0093	PASATIEMPO LN	Roots	Hydrojet	12/13/2010

ENCLOSURE 2
QUICK MAINTENANCE REPORT PRIORITY LIST
COUNTY UNINCORPORATED SOUTH (Y0TV0809D)
as of 07/08/09

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	Corrective Action Taken	Completed Date
56	4121	1706-0236	1706-0235	SESAME ST	Deposits (attached grease); roots	Hydrojet	12/09/2010
57	4121	1706-0132	1706-0131	LIVEWOOD LN	Roots	Hydrojet	12/13/2010
58	411A	1706-0227	1706-0228	VAN DEENE AV	Water Level (50%); camera underwater: 233'-239'	Hydrojet	12/13/2010
59	411A	1598-0147	1598-0148	EASTVALE RD	Roots	Hydrojet	12/13/2010
60	4118	1598-0143	1598-0151	EASTVALE RD	Roots	Hydrojet	12/14/2010
61	4111	1705-0091	1705-0471	VERMONT AV	Water Mark (55%); water level/sag (50%): 315'-358'	Hydrojet	12/13/2010
62	4111	1706-0232	1706-0231	VAN DEENE AV	Water Level (95%)/ Sag; camera underwater	Hydrojet	12/13/2010
63	4111	1706-0057	1706-0058	SPICEWOOD LN	Roots	Hydrojet	12/13/2010
64	4100	1705-0094	1705-0093	228TH ST	Deposits (attached encrustation)	Hydrojet	12/13/2010
65	4100	1705-0194	1705-0195	MEYLER ST	Water Level (55%)/Sag; camera underwater	Hydrojet	12/10/2010
66	4100	1706-0229	1706-0228	KAYWOOD DR	Water Level (50%); camera underwater	Hydrojet	12/10/2010
67	4100	1706-0704	1706-0703	APARTMENTS	Water Level (55%); camera underwater	Hydrojet	12/10/2010
68	4100	1706-0148	1706-0147	APARTMENTS	Water Level (100%)	Hydrojet	12/10/2010
69	3600	1706-0070	1706-0069	STONEBRYN DR	Water Level (20%-50%)/Sag	Hydrojet	03/17/2011
70	3100	1705-0471	1705-0092	VERMONT AV	Deposits (attached grease); high water level	Hydrojet	03/17/2011
71	3A13	1706-0071	1706-0070	STONEBRYN DR	Water Level (30%-50%)/Sag	Hydrojet	03/17/2011
72	3A11	1705-0096	1705-0094	VAN DEENE AV	Deposits (attached grease)	Hydrojet	03/17/2011
73	3321	1706-0178	1706-0179	MEYLER AV	Roots	Hydrojet	03/15/2011
74	331A	1706-0202	1706-0201	BELSON ST	Roots	Hydrojet	03/15/2011
75	3312	1706-0131	1706-0128	LIVEWOOD LN	Roots	Lateral notice will be sent to property owner.	
76	3221	1706-0191	1706-0192	PETROLEUM AV	Roots	Hydrojet	03/15/2011
77	321G	1706-0223	1706-0224	OASIS DR	Roots	Hydrojet	03/15/2011
78	3213	1706-0300	1706-0299	229TH ST	Roots	Hydrojet	03/15/2011
79	3213	1706-0174	1706-0175	ALEXANDRIA AV	Roots	Hydrojet	03/16/2011
80	3212	1706-0129	1706-0130	OAKFAIR LN	Roots	Hydrojet	03/15/2011
81	3211	1706-0083	1706-0082	OAKMERE DR	Roots	Hydrojet	03/15/2011
82	3211	1706-0126	1706-0127	ELDERGLEN LN	Roots	Hydrojet	03/15/2011
83	3200	1706-0201	1706-0200	VERMONT AV	Roots	Hydrojet	03/15/2011
84	3200	1598-0239	1598-0240	EASMENT BY HIDDEN LN	Roots	Hydrojet	03/21/2011
85	312B	1705-0109	1705-0108	VERMONT AV	Deposits (attached grease)	Hydrojet	03/15/2011
86	3121	1705-0191	1705-0192	MEYLER ST	Roots	Hydrojet	03/15/2011
87	3121	1706-0181	1706-0182	MEYLER AV	Roots	Lateral notice will be sent to property owner.	
88	311B	1706-0193	1705-0167	PETROLEUM AV	Roots	Hydrojet	03/17/2011
89	311A	1706-0191	1706-0190	PETROLEUM AV	Roots	Hydrojet	03/17/2011
90	311A	1706-0184	1706-0183	BERENDO AV	Roots	Hydrojet	03/17/2011
91	311A	1599-0118	1599-0117	EASMENT BY WEST VALE RD	Roots	Hydrojet	03/17/2011
92	3119	1705-0193	1705-1025	MEYLER ST	Roots	Hydrojet	03/17/2011
93	3118	1706-0062	1706-0063	ASHBRIDGE LN	Roots	Lateral notice will be sent to property owner.	
94	3117	1598-0143	1598-0150	EASTVALE RD	Roots	Hydrojet	03/17/2011
95	3117	1706-0128	1706-0124	LIVEWOOD LN	Roots	Lateral notice will be sent to property owner.	
96	3116	1706-0207	1706-0208	SOROCK DR	Roots Ball Lateral 129'	Lateral notice will be sent to property owner.	
97	3115	1706-0182	1706-0183	229TH ST	Roots (lateral)	Lateral notice will be sent to property owner.	
98	3114	1706-0111	1706-0112	WOODBURY DR	Roots	Hydrojet	03/16/2011
99	3114	1706-0124	1706-0123	LIVEWOOD LN	Roots	Hydrojet	03/17/2011
100	3113	1705-0192	1705-0193	MEYLER ST	Roots	Hydrojet	03/16/2011
101	3112	1706-0221	1706-0222	BROADWELL AV	Root ball (lateral): 209'	Lateral notice will be sent to property owner.	
102	3112	1706-0054	1706-0053	FERNREST DR	Root ball (lateral): 181'	Lateral notice will be sent to property owner.	
103	3112	1706-0088	1706-0087	SANDHURST LN	Root ball (lateral): 22'	Lateral notice will be sent to property owner.	
104	3112	1706-0186	1706-0185	BERENDO AV	Roots	Hydrojet	03/16/2011
105	3112	1706-0210	1706-0211	232ND ST	Roots	Hydrojet	03/17/2011
106	3112	1706-0097	1706-0095	ASHPARK LN	Root ball (lateral): 107'	Lateral notice will be sent to property owner.	
107	3111	1706-0245	1706-0246	MARINERS PARK CONDOS	Root ball (lateral): 307'	Lateral notice will be sent to property owner.	
108	3111	1706-0035	1706-0036	DOBLE AV	Obstacles	Hydrojet	03/17/2011
109	3111	1706-0053	1706-0052	FERNREST DR	Root ball (lateral): 137'	Lateral notice will be sent to property owner.	

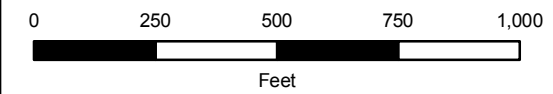
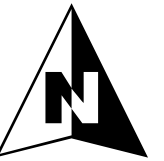
ENCLOSURE 2
 QUICK MAINTENANCE REPORT PRIORITY LIST
 COUNTY UNINCORPORATED SOUTH (Y0TV0809D)
 as of 07/08/09

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	Corrective Action Taken	Completed Date
110	3111	1706-0186	1706-0188	231ST ST	Roots (lateral)	Lateral notice will be sent to property owner.	
111	3111	1706-0200	1705-0164	VERMONT AV	Roots (lateral)	Lateral notice will be sent to property owner.	
112	3111	1706-0034	1706-0031	BROADWELL AV	Obstacles	Hydrojet	03/17/2011
113	3111	1706-0120	1706-0121	PASATIEMPO LN	Root ball (lateral): 104'	Lateral notice will be sent to property owner.	
114	3100	1705-0218	1705-1053	MEYLER ST	Roots	Hydrojet	03/17/2011
115	3100	1706-0242	1706-0243	MARINERS PARK CONDOS	Deposits (attached grease)	Rodded	03/21/2011
116	3100	1706-0080	1706-0081	VERMONT AV	Roots (lateral)	Lateral notice will be sent to property owner.	

ENCLOSURE 2 CCTV PROJECT Y0TV0809D

COUNTY
UNINCORPORATED

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

- Other

Manhole Type

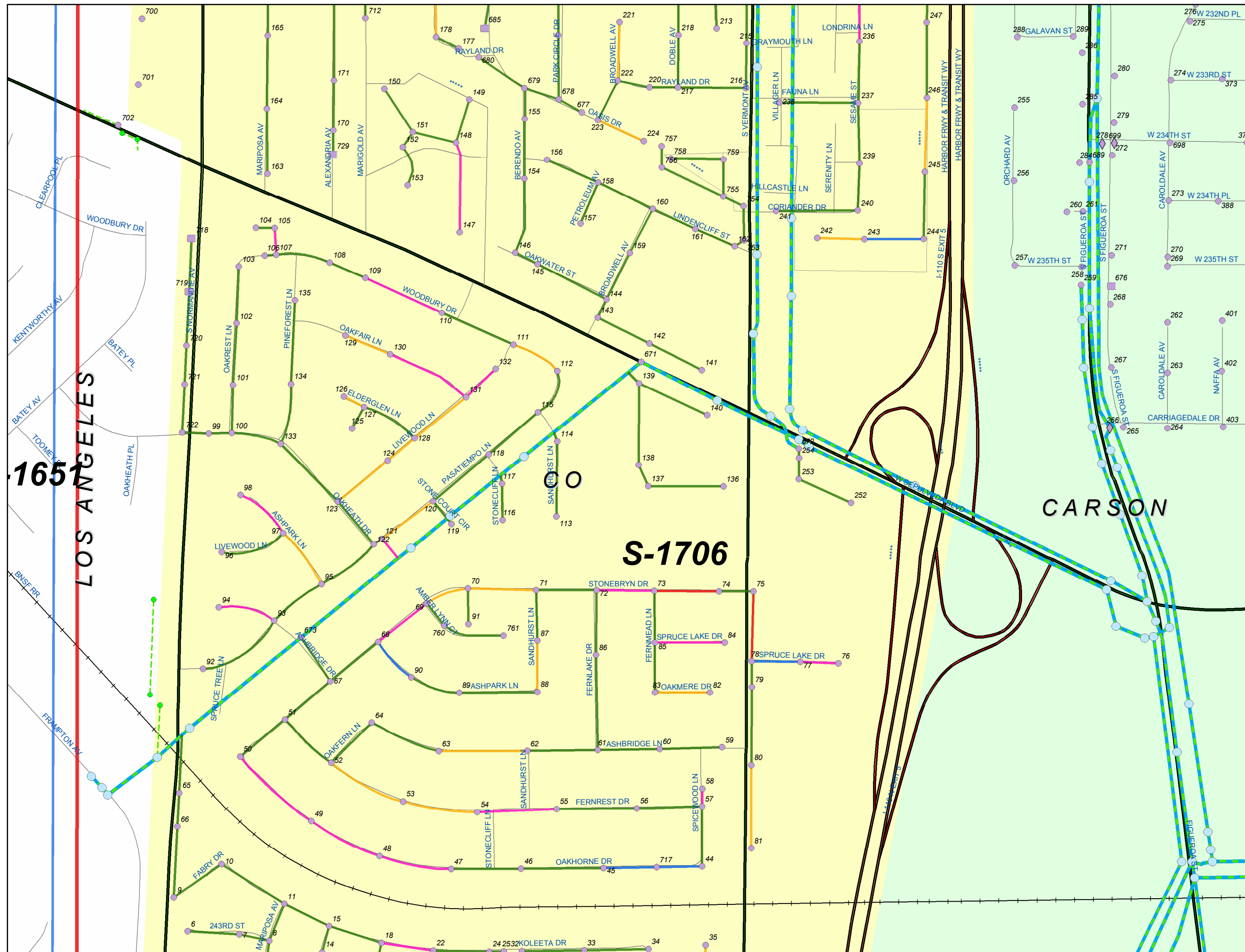
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

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

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MARCH 2011



LOS ANGELES

CARSON

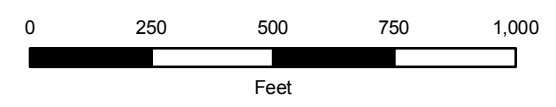
S-1706

165

ENCLOSURE 2 CCTV PROJECT Y0TV0809D

COUNTY
UNINCORPORATED

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

Other

Manhole Type

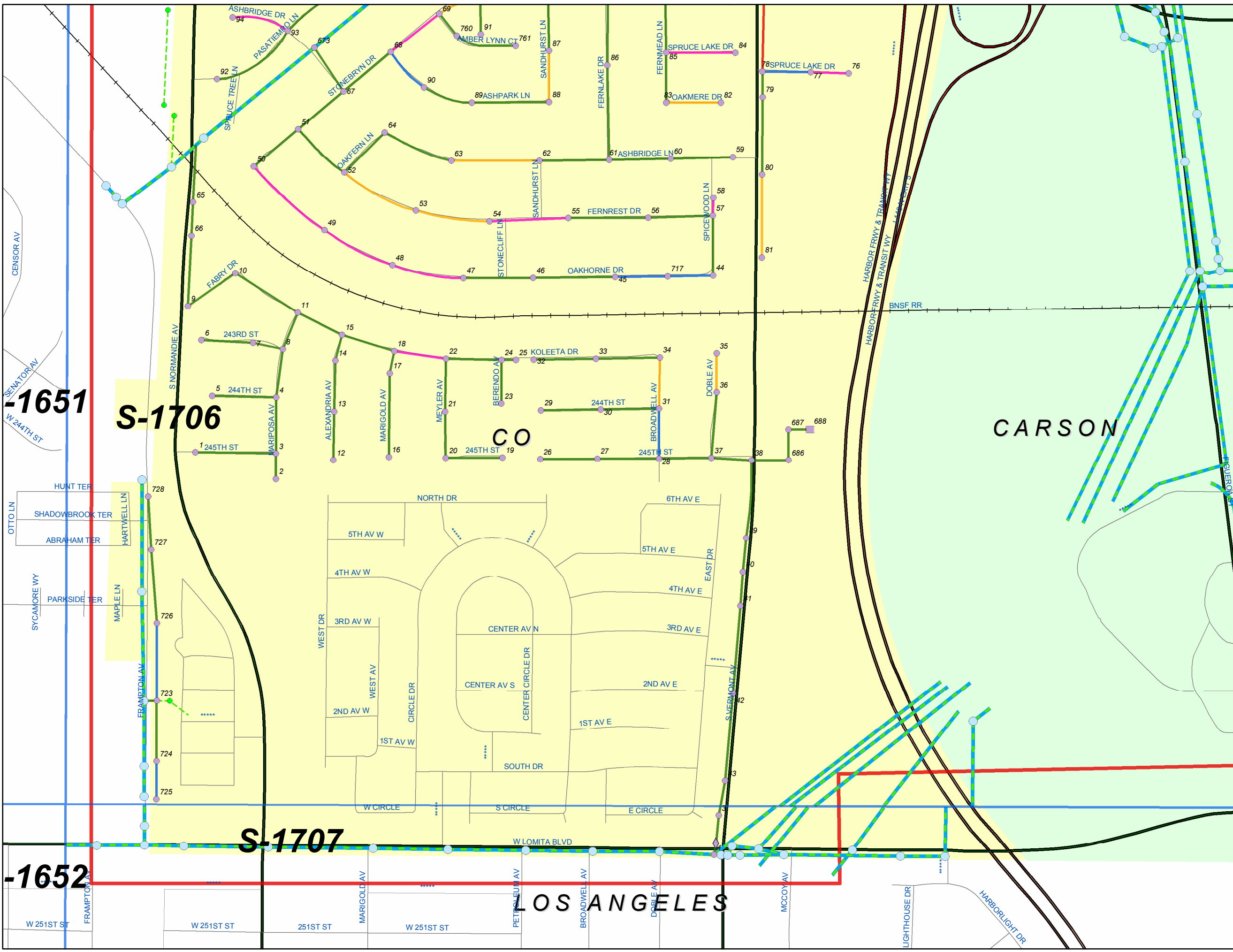
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

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

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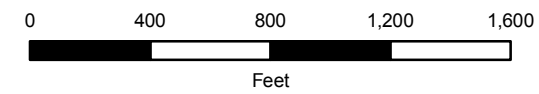
MARCH 2011



ENCLOSURE 2 CCTV PROJECT Y0TV0809D

COUNTY
UNINCORPORATED

QUICK
MAINTENANCE
RATING
(QMR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

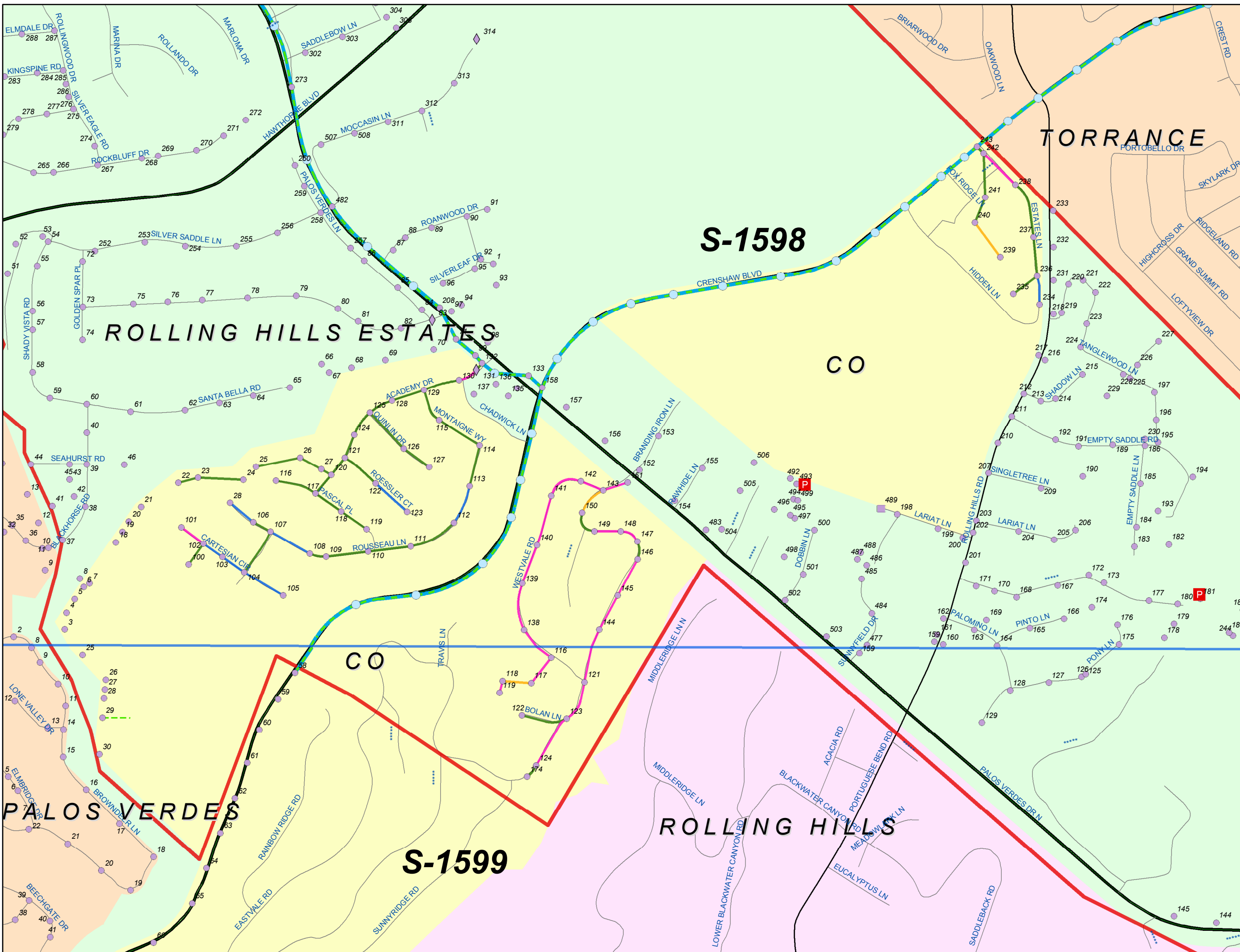
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

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

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MARCH 2011



S-1598

S-1599

ROLLING HILLS ESTATES

PALOS VERDES

TORRANCE

ROLLING HILLS

CO

CO

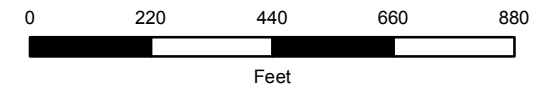
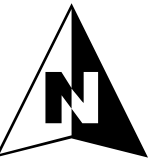
ENCLOSURE 2
HIGH WATER LEVELS
COUNTY UNINCORPORATED SOUTH (Y0TV0809D)
as of 07/08/09

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	WATER LEVEL: LOCATION	CORRECTIVE ACTION	COMPLETED DATE
1	4A00	1706-0069	1706-0068	STONEBRYN DR	Water level sag; camera underwater	(70%-100%): 171'-201'	Hydrojet	12/10/2010
2	4526	1598-0238	1598-0242	ESTATES LN	Water level sag	(80%): 254'-273'	Hydrojet	12/10/2010
3	4400	1706-0121	1706-TRNK	EASMENT BY PASATIEMPO LN	Water level sag	(75%): 114'-128'	Hydrojet	12/10/2010
4	413A	1706-0073	1706-0072	STONEBRYN DR	Water level sag; Water mark	(50%): 0'-256'	Hydrojet	12/14/2010
5	411A	1706-0227	1706-0228	VAN DEENE AV	Water level sag; camera underwater	(50%-100%)-233'-239'	Hydrojet	12/13/2010
6	4111	1705-0091	1705-0471	VERMONT AV	Water level sag	(55%): 315'-358'	Hydrojet	12/13/2010
7	4111	1706-0232	1706-0231	VAN DEENE AV	Water level sag; camera underwater	(95%-100%): 45'-48'	Hydrojet	12/13/2010
8	4100	1705-0194	1705-0195	MEYLER ST	Water level sag; camera underwater	(55%-100%): 0'-128'	Hydrojet	12/10/2010
9	4100	1706-0229	1706-0228	KAYWOOD DR	Water level sag; camera underwater	(50%-100%): 100'-168'	Hydrojet	12/10/2010
10	4100	1706-0704	1706-0703	APARTMENTS	Water level sag; camera underwater	(55%-100%): 55'-145'	Hydrojet	12/10/2010
11	4100	1706-0148	1706-0147	APARTMENTS	Camera underwater	(100%): 0'-20'	Hydrojet	12/10/2010
12	3600	1706-0070	1706-0069	STONEBRYN DR	Water level sag	(20%-50%): 30'-252'	Hydrojet	03/17/2011
13	3A13	1706-0071	1706-0070	STONEBRYN DR	Water level sag	(30%-50%): 65'-245'	Hydrojet	03/17/2011

ENCLOSURE 2 CCTV PROJECT Y0TV0809D

COUNTY
UNINCORPORATED

HIGH WATER LEVELS

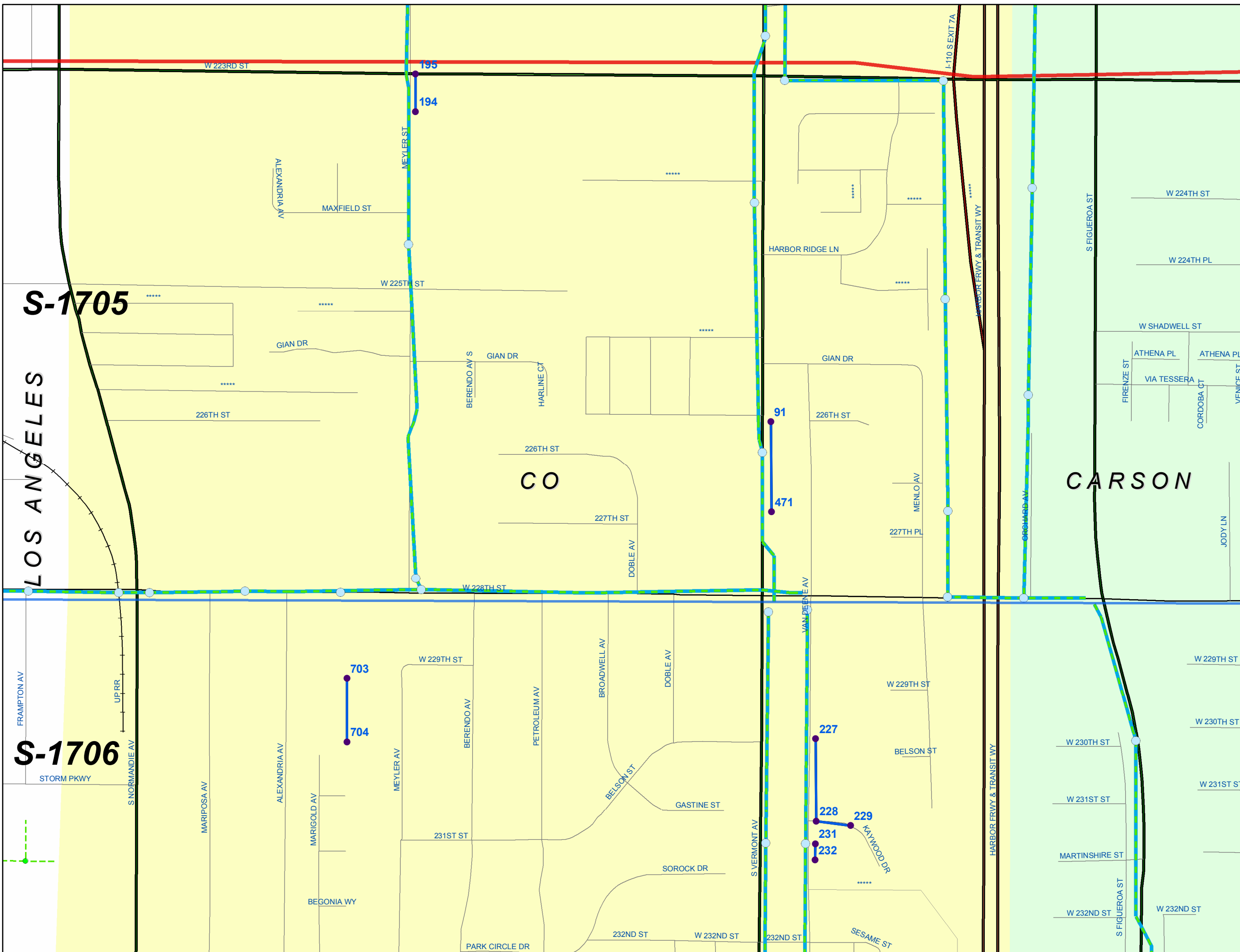


Legend

- High Water Levels
- SMD Manholes
- P SMD Pump Stations
- WTP SMD Treatment Plants
- Maintained by Others:**
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- Parcel Boundary
- SMD Operations Maps
- Y0TV0809D

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MARCH 2011



S-1705

LOS ANGELES

CO

CARSON

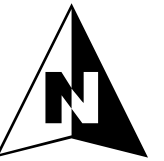
S-1706

LOS ANGELES

ENCLOSURE 2 CCTV PROJECT Y0TV0809D

COUNTY
UNINCORPORATED

HIGH WATER LEVELS

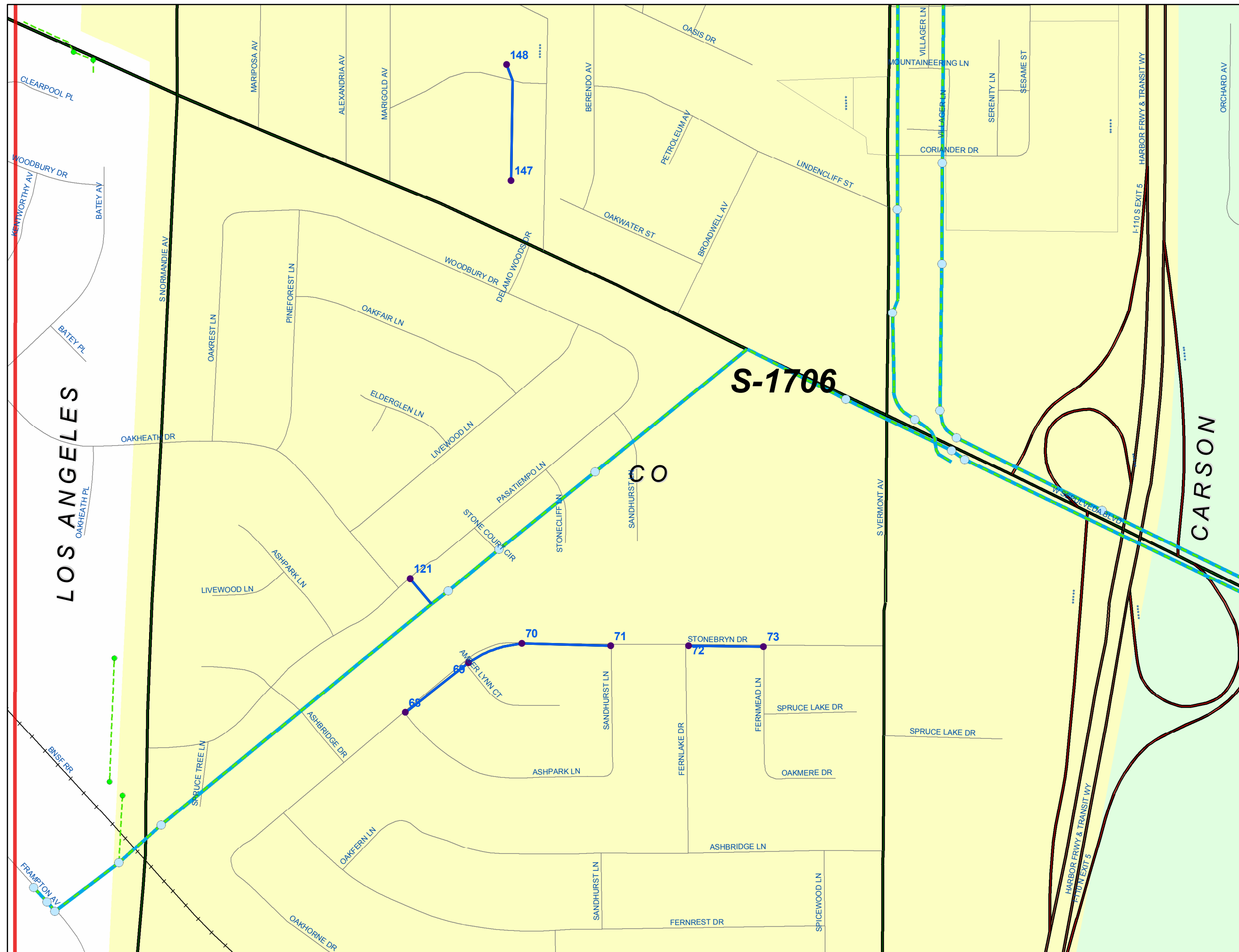


Legend

- High Water Levels
- SMD Manholes
- SMD Pump Stations
- SMD Treatment Plants
- Maintained by Others:**
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- Parcel Boundary
- SMD Operations Maps
- Y0TV0809D

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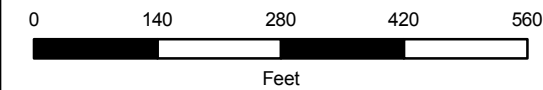
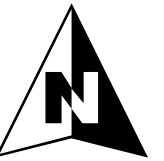
MARCH 2011



ENCLOSURE 2
CCTV PROJECT
Y0TV0809D

COUNTY
UNINCORPORATED

HIGH WATER LEVELS

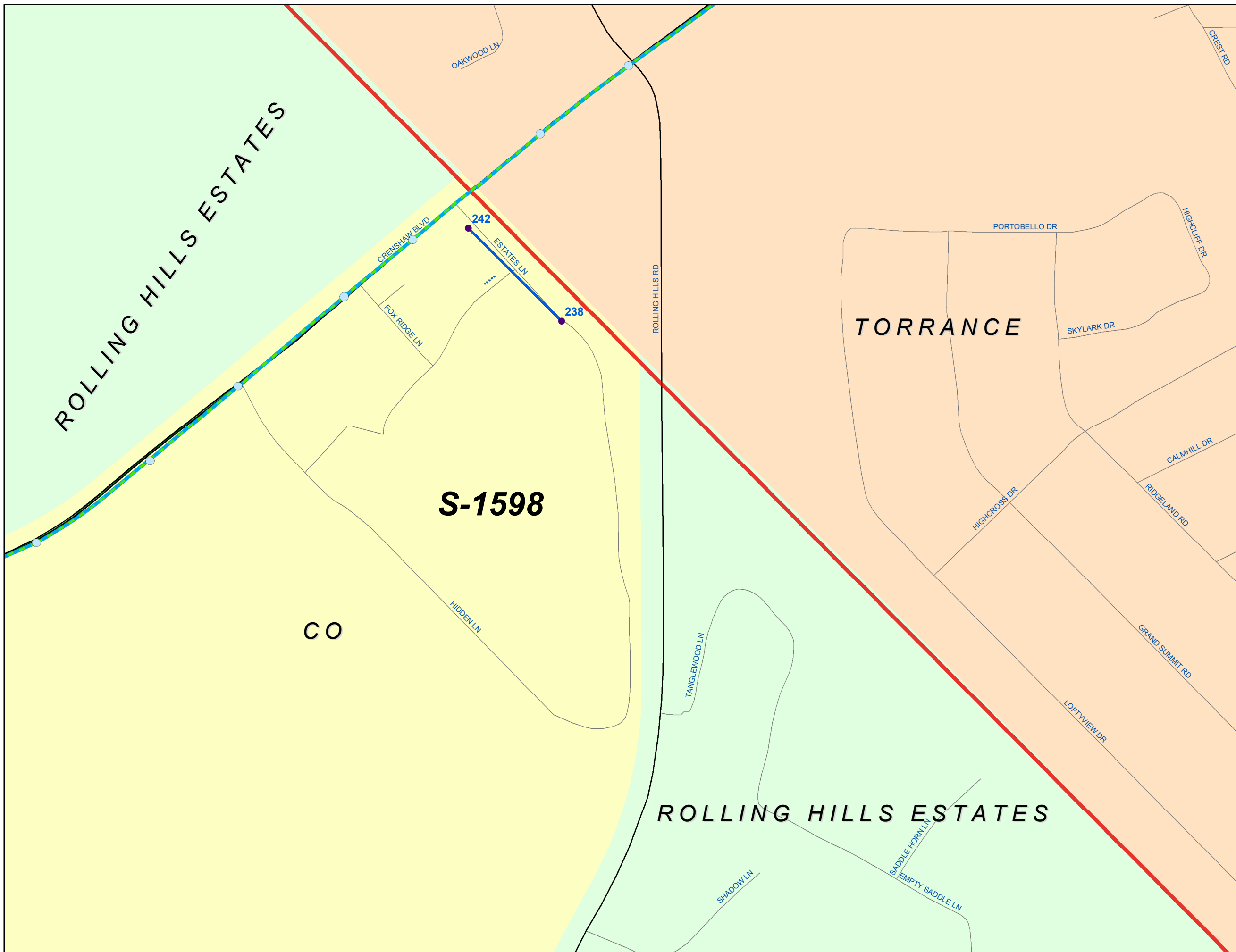


Legend

- High Water Levels
- SMD Manholes
- SMD Pump Satations
- SMD Treatment Plants
- Maintained by Others:**
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- Parcel Boundary
- SMD Operations Maps
- Y0TV0809D

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MARCH 2011



ENCLOSURE 2
INFILTRATION
COUNTY UNINCORPORATED SOUTH (Y0TV0809D)
as of 07/08/09

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE ACTION
1	4131	1706-0204	1706-0203	GASTINE ST	Infill. Runner 330'	No action needed.

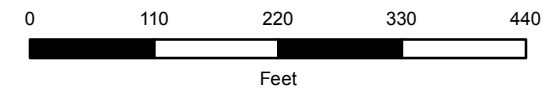
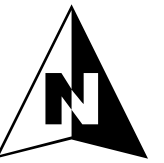
ENCLOSURE 2

CCTV PROJECT

Y0TV0809D

COUNTY
UNINCORPORATED

INFILTRATION

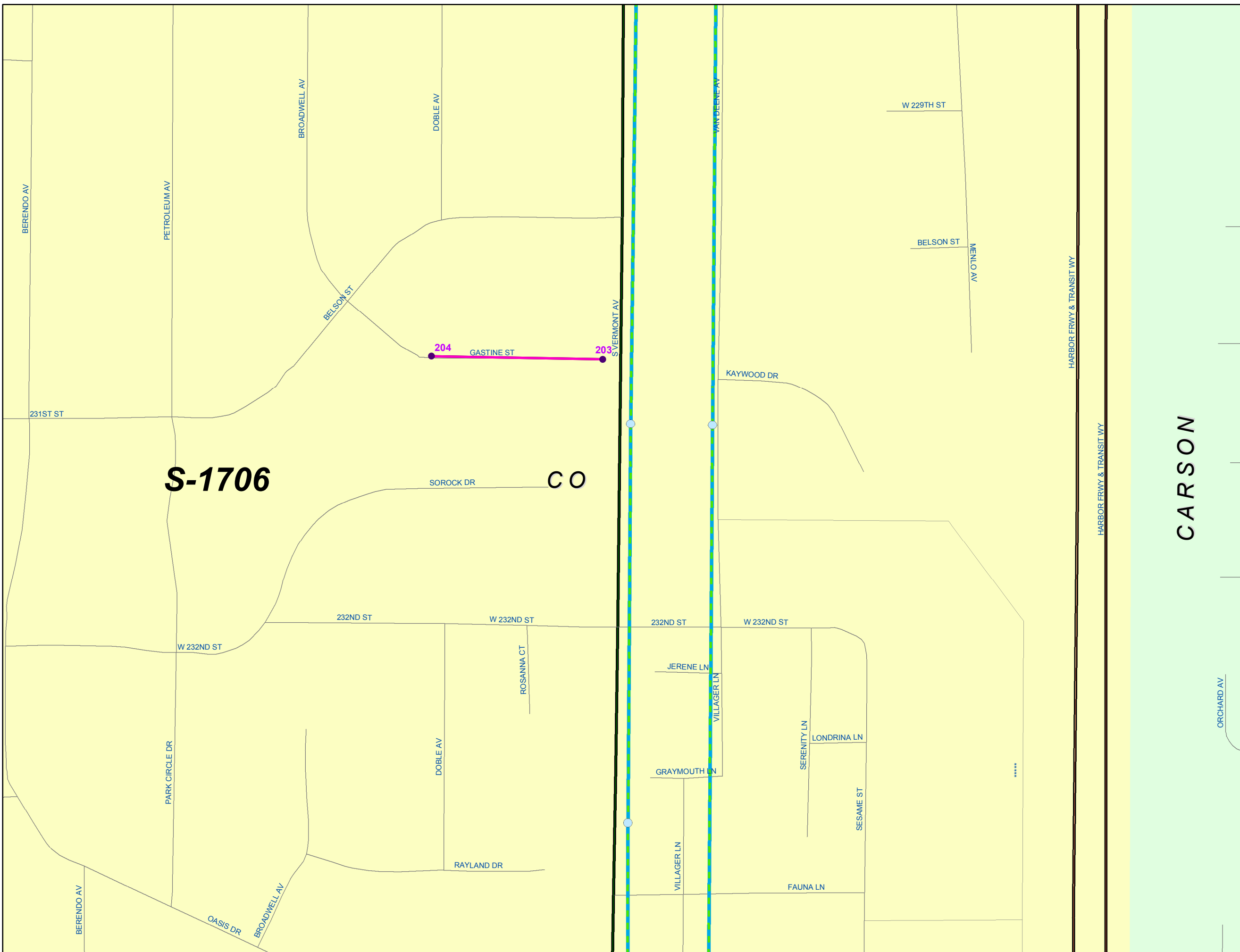


Legend

- Infiltration
- SMD Manholes
- SMD Pump Satations
- SMD Treatment Plants
- Maintained by Others:**
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- Parcel Boundary
- SMD Operations Maps
- Y0TV0809D

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MARCH 2011





GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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

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

August 19, 2010

Current Property Owner
3476 Marengo Ave
Altadena, CA 91001

Dear Property Owner:

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

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

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

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

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

IN REPLY PLEASE

REFER TO FILE:

SM-1

Current Property Owner
August 19, 2010
Page 2

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

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

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

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

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

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

Very truly yours,

GAIL FARBER
Director of Public Works

JOHN T. WALKER
Assistant Deputy Director
Sewer Maintenance Division

PK:

Enc.

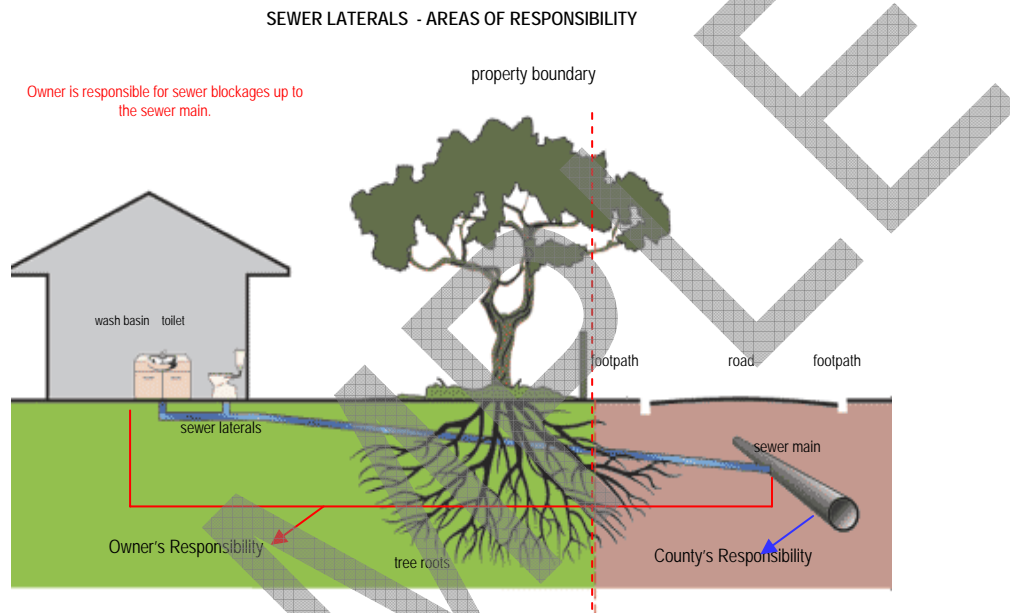
bc: JW, KL, RS, FV, RH, File (Lateral Notice), SPINDLE

3476 MARENGO AVE
ALTADENA
Roots at Lateral Connection



Minimizing Sewer Overflows and Damage to Your Home

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



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

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

The three methods we suggest are:

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

ENCLOSURE 3:

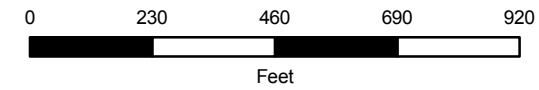
- Quick Structural Rating Report
Priority List
- Quick Structural Rating Map

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
COUNTY UNINCORPORATED SOUTH (Y0TV0809D)
as of 07/08/09

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5122	1705-0105	1705-0106	VERMONT AV	Broken: 58' (external patch)	Structural integrity in tact. No action needed.	
2	5224	1705-0106	1705-0465	VERMONT AV	Hole with visible void: 156'	Emergency Point Repair (completed: 04/15/09)	
3	5122	1705-0465	1705-0107	VERMONT AV	Broken: 3' (external patch); fractures: 50'	Structural integrity in tact. No action needed.	
4	5131	1705-0110	1705-0111	VERMONT AV	Joint offset (large): 15'	South Yard to investigate; create project detail	
5	4100	1706-0095	1706-0122	PASATIEMPO LN	Fractures: 247'	Lining: MH to MH	278
6	4121	1598-0102	1598-0103	CARTESIAN CR	Fractures: 170'	Structural integrity in tact. No action needed.	173
7	4131	1599-0116	1598-0138	WESTVALE RD	Fractures: 24'	Structural integrity in tact. No action needed.	
8	5133	1706-0179	1706-0180	MEYLER AV	Broken: 290'; fractures and cracks:	Lining: MH to MH	345
9	5114	1705-0166	1705-0165	228TH ST	Broken: 13' (external patch)	Structural integrity in tact. No action needed.	
10	5100	1706-0031	1706-0028	BROADWELL AV	Broken: 112'	Lining: MH to MH	227
11	4100	1706-0102	1706-0103	OAKREST LN	Fractures: 130'	Structural integrity in tact. No action needed.	

ENCLOSURE 3 CCTV PROJECT Y0TV0809D

COUNTY UNINCORPORATED QUICK MAINTENANCE RATING (QSR)



Legend

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

SMD Manholes

Other (Circle with dot)

Manhole Type

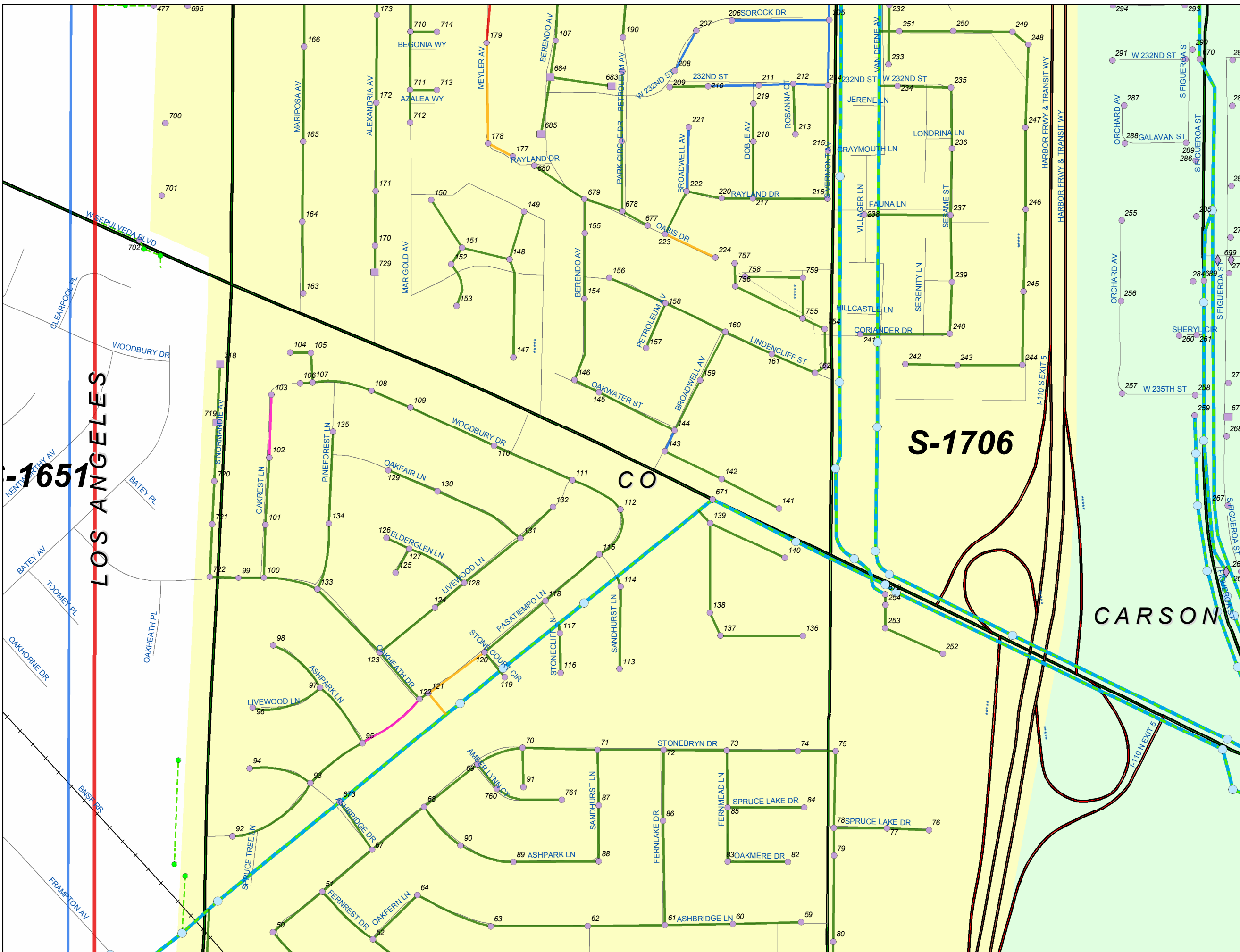
- Standard (Purple circle)
- DROP (Purple triangle)
- Shallow (Purple square)
- Trap (Purple diamond)
- Siphon (Purple circle with cross)
- SMD Pump Stations (Red square with 'P')
- SMD Treatment Plants (Red rectangle with 'WTP')

Maintained by Others:

- Trunk Sewerlines (Thick blue line)
- Non SMD Sanitary Sewers (Dashed green line)
- Trunk Mh (Blue circle)
- Non SMD Maintained MH (Green circle)
- Parcel Boundary (Thin black line)
- SMD Operations Maps (Blue outline)
- Y0TV0809D (Red outline)

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MARCH 2011

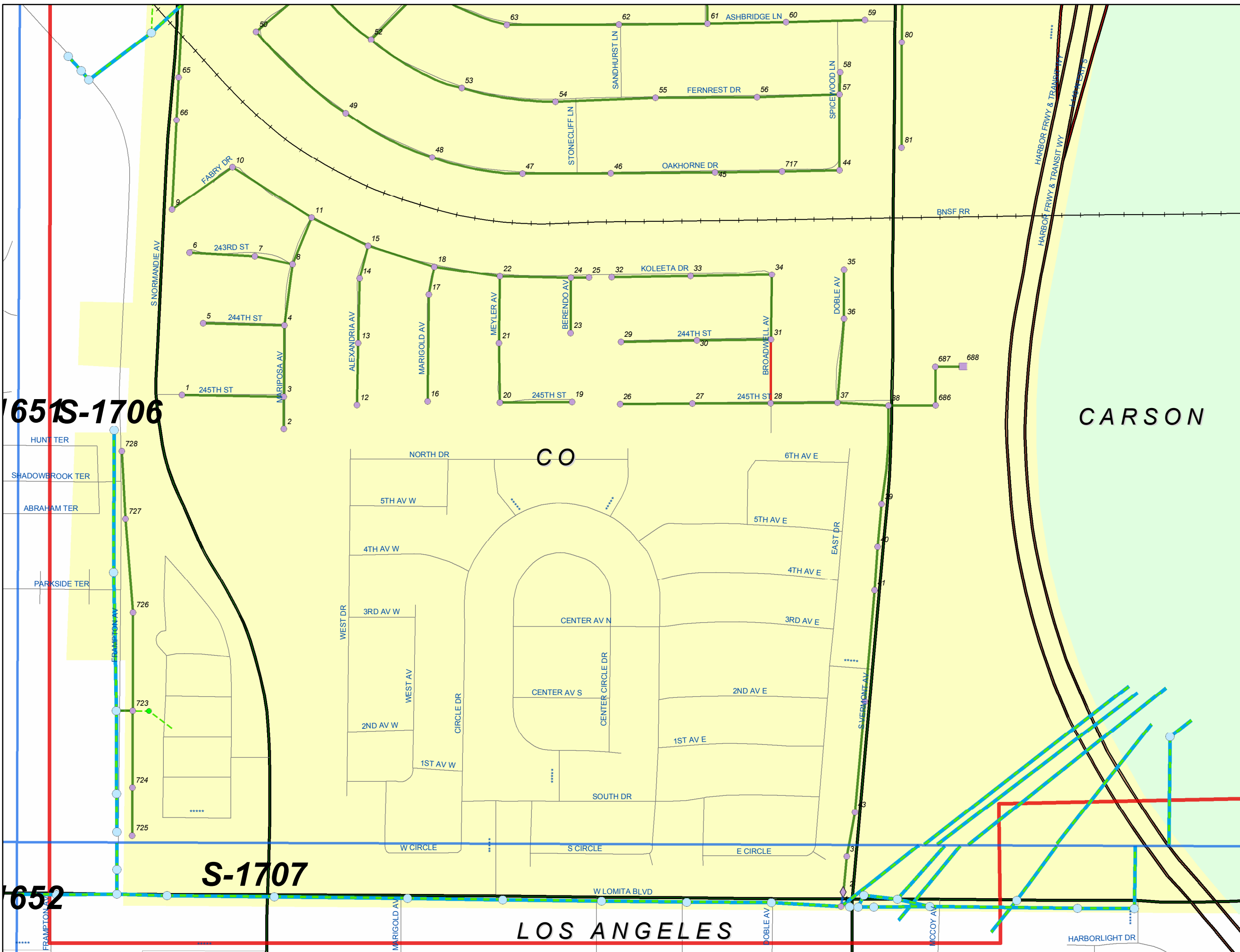
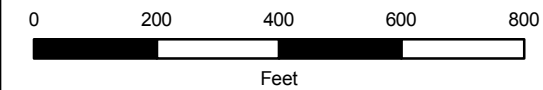
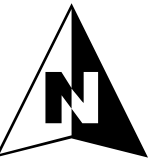


LOS ANGELES COUNTY
 S-1706

ENCLOSURE 3 CCTV PROJECT Y0TV0809D

COUNTY
UNINCORPORATED

QUICK MAINTENANCE RATING (QSR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

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

Maintained by Others:

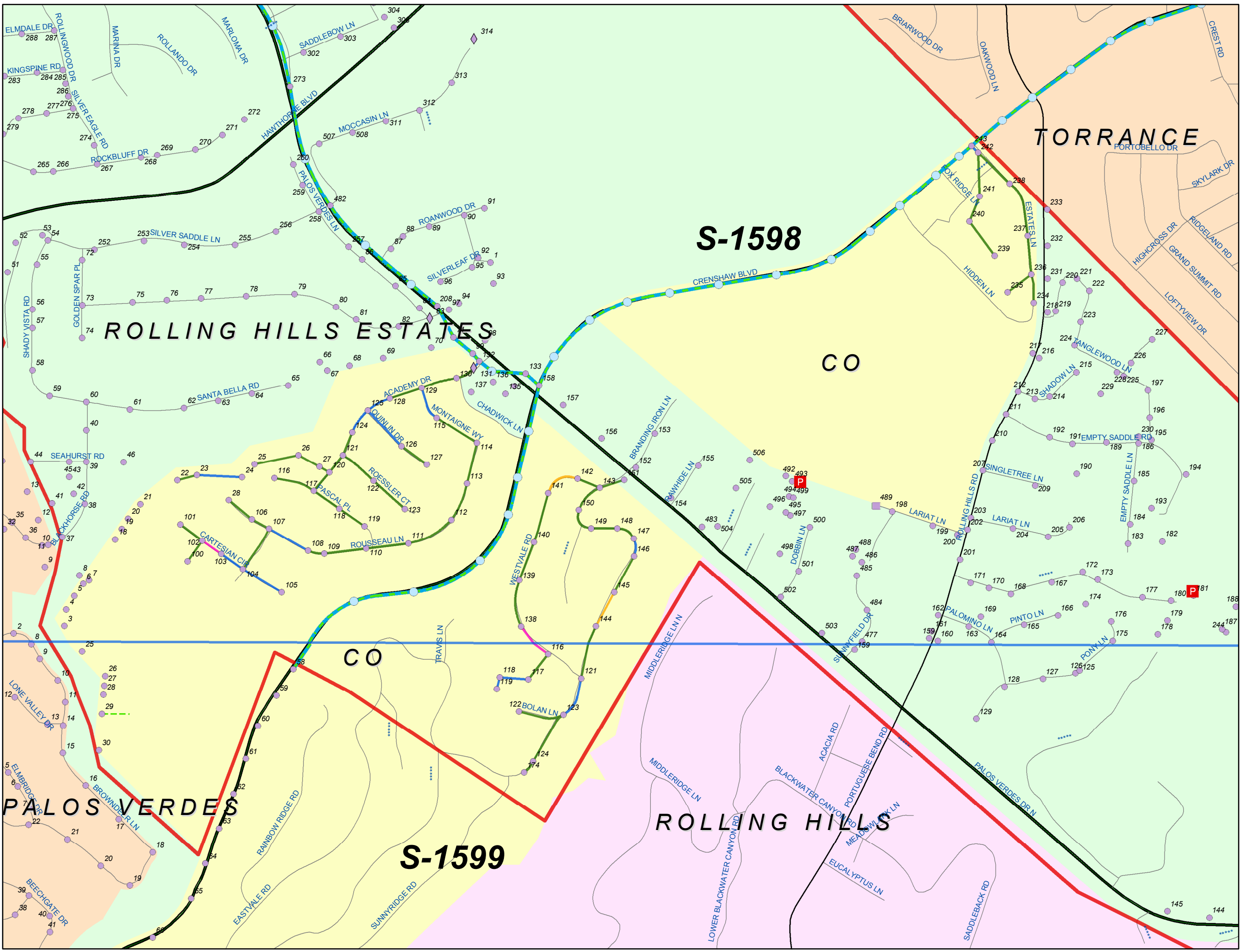
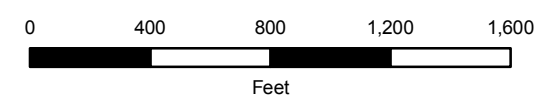
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- Parcel Boundary
- SMD Operations Maps
- Y0TV0809D

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MARCH 2011

ENCLOSURE 3 CCTV PROJECT Y0TV0809D

COUNTY
UNINCORPORATED
**QUICK
MAINTENANCE
RATING
(QSR)**



Legend

SMD Sanitary Sewers

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

SMD Manholes

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

Maintained by Others:

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

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MARCH 2011

ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

Date: 20090311	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 619	PSR: 67192
Total Pipe Length: 354.00	Survey Customer: LACDPW	System Owner: PLM	Clean Date: 03 05 2009	Pre-Cleaned: Jetting	Map Grid #

Street: VERMONT AV	Flow Control: Not Controlled	Start MH: 1705-0105
City: ZLAS	Year Renewed	End MH: 1705-0106
Location Code: Light Highway	Tape/Media # M313-029	pipe length: 344.8 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0105 1705-0106 1705	Lining Method:
	Category:

Remark::

1:775	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1705-0105	00:00:22	5377	
	6.00	Water Level, 10 #, within 8 inch: NO	00:01:06	5378	
	12.20	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:01:31	5379	
	52.80	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:02:51	5380	
	57.00	Alignment Down, within 8 inch: NO	00:03:07	5381	M 1
	58.80	Fracture Circumferential, from 2 to 10 o'clock, within 8 inch: YES	00:03:34	5382, b	S 2
	58.80	Broken, from 10 to 2 o'clock, within 8 inch: YES	00:03:55	5384, b	S 5
	65.20	Water Level, 15 #, within 8 inch: NO	00:04:20	5386	
	90.40	Water Level, 30 #, within 8 inch: NO	00:05:06	5387	
	111.70	Water Level, 15 #, within 8 inch: NO	00:05:57	5388	
	133.60	Water Level, 25 #, within 8 inch: NO	00:06:42	5389	
	158.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:34	5390	
	169.80	Joint Offset Medium, within 8 inch: YES	00:08:15	5391, b	S 1
	170.40	Water Level, 15 #, within 8 inch: NO	00:08:30	5393	
	185.30	Crack Circumferential, from 1 to 3 o'clock, within 8 inch: YES	00:09:07	5394, b	S 1
	189.50	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	00:09:36	5396	
	300.90	Crack Longitudinal, at 12 o'clock, within 8 inch: YES	00:13:04	5397, b	S 2
	307.40	Crack Circumferential, from 10 to 2 o'clock, within 8 inch: YES	00:13:37	5399, b	S 1
	314.00	Crack Circumferential, from 10 to 5 o'clock, within 8 inch: YES	00:14:10	5401, b	S 1
	317.70	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	00:14:39	5403	
	328.60	Crack Circumferential, from 12 to 3 o'clock, within 8 inch: YES	00:15:23	5404, b	S 1
	344.80	Manhole, within 8 inch: NO, Remarks: 1705-0106	00:16:20	5406	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5122	1100	14	1	15	1.75	1	1.67



Inspection report

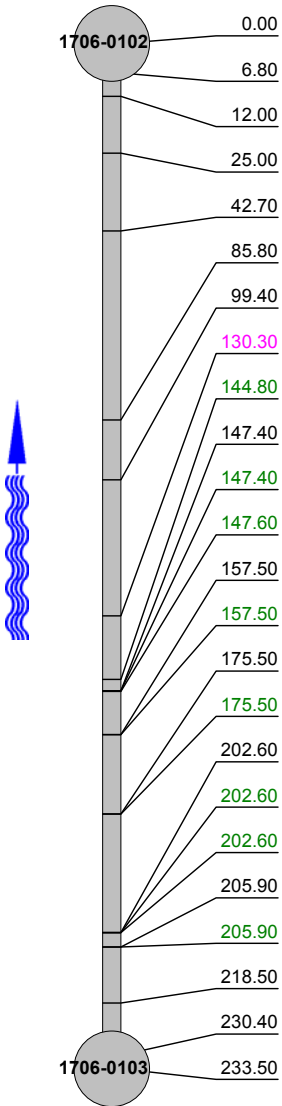
Date: 20090316	P.O.:	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 3292	PSR: 66204
Total Pipe Length: 250.00	Survey Customer: LACDPW	System Owner: ZLAS	Clean Date:	Pre-Cleaned: Jetting	Map Grid:

Street: OAKREST LN	Flow Control: Not Controlled	Start MH: 1706-0102
City: ZLAS	Year Renewed:	End MH: 1706-0103
Location Code: Light Highway	Tape/Media: R001-035	pipe length: 233.5 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0102 1706-0103 1706	Lining Method:
	Category:

Remark::

1:525	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706--0102	00:00:29	8016	
	6.80	Water Level, 5", within 8 inch: NO	00:01:18	8017	
	12.00	General Observation, within 8 inch: NO, Remarks: Pipe jointLength 5'	00:01:48	8018	
	25.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:13	8019	
	42.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:48	8020	
	85.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:57	8021	
	99.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:26	8022	
	130.30	Fracture Multiple, from 9 to 4 o'clock, within 8 inch: YES	00:06:26	8023, b	S 4
	144.80	Roots Fine Joint, at 2 o'clock, within 8 inch: YES	00:07:21	8025, b	M 1
	147.40	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:07:45	8027	
	147.40	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:07:56	8028, b	M 1
	147.60	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:08:30	8030, b	M 1
	157.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:08	8032	
	157.50	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:09:20	8033, b	M 1
	175.50	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO	00:10:15	8035	
	175.50	Roots Fine Connection, at 9 o'clock, within 8 inch: NO	00:10:27	8036, b	M 1
	202.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:27	8038	
	202.60	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:11:38	8039, b	M 1
	202.60	Roots Fine Joint, at 7 o'clock, within 8 inch: YES	00:12:05	8041, b	M 1
	205.90	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:12:29	8043	
	205.90	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:12:40	8044, b	M 1
	218.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:13:16	8046	
	230.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:13:50	8047	
	233.50	Manhole, within 8 inch: NO, Remarks: 1706--0103	00:14:27	8048	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	1800	4	8	12	4	1	1.33



Inspection report

Date: 20090320	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1157	PSR: 66196
Total Pipe Length: 288.00	Survey Customer: LACDPW	System Owner: ZLAS	Clean Date:	Pre-Cleaned: Jetting	Map Grid # 1706

Street: PASATIEMPO LN	Flow Control: Not Controlled	Start MH: 1706-0095
City: ZLAS	Year Renewed:	End MH: 1706-0122
Location Code: Light Highway	Tape/Media # R039	pipe length: 278.4 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8" x 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0095 1706-0122 1706	Lining Method:
	Category:

Remark::

1:625	position	observation	MPEG	photo	grade
	0.10	Manhole, within 8 inch: NO, Remarks: 1706-0095	00:00:34	795	
	5.00	Water Level, 5", within 8 inch: NO	00:01:12	796	
	10.20	Roots Fine Joint, from 8 to 10 o'clock, within 8 inch: YES	00:01:41	797, b	M 1
	15.20	General Observation, within 8 inch: NO, Remarks: Pipe joint Length 5'	00:02:24	799	
	28.40	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:02:51	800	
	33.90	Roots Fine Joint, at 8 o'clock, within 8 inch: YES	00:03:15	801, b	M 1
	86.00	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:04:45	803	
	144.10	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:06:22	804	
	177.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:27	805	
	209.00	Roots Fine Joint, from 4 to 5 o'clock, within 8 inch: YES	00:08:28	806, b	M 1
	211.00	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:09:06	808	
	211.00	Roots Fine Lateral, at 2 o'clock, within 8 inch: NO	00:09:16	809, b	M 1
	247.60 S1	Fracture Multiple, from 12 to 11 o'clock, within 8 inch: YES, Start	00:11:06	811, b	S 4
	247.90	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:11:45	813	
	249.50 F1	Fracture Multiple, from 12 to 11 o'clock, within 8 inch: YES, End	00:12:11	814, b	S 4
	278.40	Vermin Cockroach, within 8 inch: NO	00:13:42	816, b	M 1
	278.40	Manhole, within 8 inch: NO, Remarks: 1706-0122	00:14:00	818	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	1500	4	5	9	4	1	1.5



Inspection report

Date: 20090512	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1650	PSR: 72549
Total Pipe Length: 163.00	Survey Customer: LACDPW	System Owner: ZLAS	Clean Date:	Pre-Cleaned: Jetting	Map Grid # 1598

Street: CARTESIAN CR	Flow Control: Not Controlled	Start MH: 1598-0102
City: ZLAS	Year Renewed:	End MH: 1598-0103
Location Code: Light Highway	Tape/Media # R072	pipe length: 173.3 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8" x 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0102 1598-0103 1598	Lining Method:
	Category:

Remark::

1:400	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0102	00:00:28	9300	
	9.20	Water Level, 5", within 8 inch: NO	00:01:18	9301	
	14.40	General Observation, within 8 inch: NO, Remarks: Pipe joint Length 5'	00:01:44	9302	
	26.50	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:02:13	9303	
	34.10	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:02:45	9304	
	40.40	S1 Deposits Attached Encrustation, from 9 to 3 o'clock, 5", within 8 inch: YES, Start	00:03:32	9305, b	M 2
	52.80	F1 Deposits Attached Encrustation, from 9 to 3 o'clock, 5", within 8 inch: YES, End	00:04:14	9307, b	M 2
	66.00	S2 Deposits Attached Encrustation, from 8 to 4 o'clock, 5", within 8 inch: YES, Start	00:05:11	9309, b	M 2
	92.80	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:06:21	9311	
	92.80	Roots Fine Connection, at 9 o'clock, within 8 inch: NO	00:06:32	9312, b	M 1
	105.80	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:07:24	9314	
	138.20	F2 Deposits Attached Encrustation, from 8 to 4 o'clock, 5", within 8 inch: YES, End	00:09:03	9315, b	M 2
	163.30	Crack Longitudinal, at 12 o'clock, within 8 inch: YES	00:10:13	9317, b	S 2
	164.40	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:10:42	9319	
	170.70	Fracture Multiple, from 3 to 9 o'clock, within 8 inch: YES	00:11:27	9320, b	S 4
171.90	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:12:01	9322		
173.30	Manhole, within 8 inch: NO, Remarks: 1598-0103	00:12:51	9323		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2C11	6	43	49	3	1.95	2.04



Inspection report

Date: 20090514	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1689	PSR: 84546
Total Pipe Length: 277.00	Survey Customer: LACDPW	System Owner: ZLAS	Clean Date:	Pre-Cleaned: Jetting	Map Grid # 1599

Street: WESTVALE RD	Flow Control: Not Controlled	Start MH: 1599-0116
City: ZLAS	Year Renewed:	End MH: 1598-0138
Location Code: Light Highway	Tape/Media # R074	pipe length: 341.1 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8" x 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0116 1599-0138 1598	Lining Method:
	Category:

Remark::

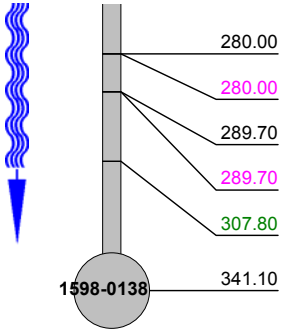
1:594	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1599-0116	00:00:26	9800	
	6.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:49	9801	
	21.20	Water Level, 5", within 8 inch: NO	00:02:23	9802	
	24.70	Crack Longitudinal, at 4 o'clock, within 8 inch: YES	00:02:42	9803, b	S 2
	24.70	Fracture Longitudinal, at 1 o'clock, within 8 inch: YES	00:02:59	9805, b	S 3
	27.50	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:04:02	9807, b	S 4
	31.50	General Observation, within 8 inch: NO, Remarks: Pipe joint Length 3'	00:04:36	9809	
	65.20	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:05:33	9810, b	M 1
	79.00	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:06:14	9812, b	M 1
	97.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:08	9814	
	97.50	Roots Ball Lateral, at 3 o'clock, 65", within 8 inch: NO	00:07:28	9815, b	M 4
	98.70 S1	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES, Start	00:07:56	9817, b	M 1
	102.30 F1	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES, End	00:08:21	9819, b	M 1
	113.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:59	9821	
	213.00	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	00:11:24	9822, b	M 1
	214.10	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:11:50	9824	
	214.10	Roots Fine Lateral, at 10 o'clock, within 8 inch: NO	00:12:02	9825, b	M 1
	230.90 S2	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES, Start	00:12:54	9827, b	M 1
	234.30 F2	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES, End	00:13:20	9829, b	M 1
	244.60 S3	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES, Start	00:13:58	9831, b	M 1
	254.80 F3	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES, End	00:14:35	9833, b	M 1



Inspection report

Date: 20090514	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1689	PSR: 84546
Total Pipe Length: 277.00	Survey Customer: LACDPW	System Owner: ZLAS	Clean Date:	Pre-Cleaned: Jetting	Map Grid # 1599

1:594	position	observation	MPEG	photo	grade
	280.00	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:15:49	9835	
	280.00	Roots Ball Connection, at 10 o'clock, 70 °, within 8 inch: NO	00:16:04	9836, b	M 4
	289.70	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:16:53	9838	
	289.70	Roots Ball Connection, at 10 o'clock, 75 °, within 8 inch: NO	00:17:14	9839, b	M 4
	307.80	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	00:18:09	9841, b	M 1
	341.10	Manhole, within 8 inch: NO, Remarks: 1598-0138	00:19:41	9843	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	431A	9	22	31	3	1.69	1.94



Inspection report

Date: 20090312	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2175	PSR: 66155
Total Pipe Length: 222.00	Survey Customer: LACDPW	System Owner: COUNTY	Clean Date:	Pre-Cleaned: Jetting	Map Grid #

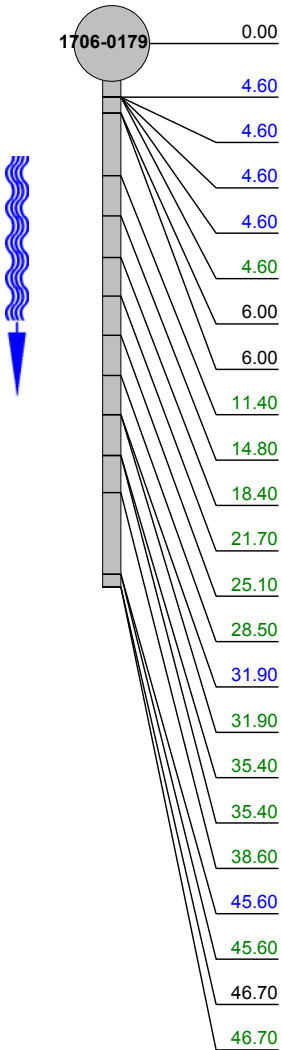
UNINCORPORATED

Street: MEYLER AV	Flow Control: Not Controlled	Start MH: 1706-0179
City: ZLAS	Year Renewed	End MH: 1706-0180
Location Code: Light Highway	Tape/Media # A315-023	pipe length: 344.9 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0179 1706-0180 1706	Lining Method:
	Category:

Remark::

1:198	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0179	00:00:47	4950	
	<u>4.60</u>	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:01:13	4951, b	S 2
	<u>4.60</u>	Crack Longitudinal, at 11 o'clock, within 8 inch: YES	00:01:33	4953, b	S 2
	<u>4.60</u>	Crack Longitudinal, at 4 o'clock, within 8 inch: YES	00:01:51	4955, b	S 2
	<u>4.60</u>	Crack Longitudinal, at 2 o'clock, within 8 inch: YES	00:02:06	4957, b	S 2
	<u>4.60</u>	Roots Fine Joint, from 10 to 4 o'clock, within 8 inch: YES	00:02:34	4959	M 1
	<u>6.00</u>	Water Level, 10 #, within 8 inch: NO	00:03:32	4960	
	<u>6.00</u>	Water Mark, 15 #, within 8 inch: NO	00:03:42	4961	
	<u>11.40</u>	Roots Fine Joint, from 2 to 10 o'clock, within 8 inch: YES	00:04:03	4962, b	M 1
	<u>14.80</u>	Roots Fine Joint, from 2 to 10 o'clock, within 8 inch: YES	00:04:33	4964, b	M 1
	<u>18.40</u>	Roots Fine Joint, from 9 to 4 o'clock, within 8 inch: YES	00:05:06	4966, b	M 1
	<u>21.70</u>	Roots Fine Joint, from 9 to 3 o'clock, within 8 inch: YES	00:05:40	4968, b	M 1
	<u>25.10</u>	Roots Fine Joint, from 1 to 3 o'clock, within 8 inch: YES	00:06:14	4970, b	M 1
	<u>28.50</u>	Roots Fine Joint, from 12 to 3 o'clock, within 8 inch: YES	00:06:46	4972, b	M 1
	<u>31.90</u>	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:07:26	4974, b	S 2
	<u>31.90</u>	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:07:35	4976, b	M 1
	<u>35.40</u>	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:08:08	4978, b	M 1
	<u>35.40</u>	Crack Circumferential, from 8 to 2 o'clock, within 8 inch: YES	00:08:20	4980, b	S 1
	<u>38.60</u>	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	00:09:03	4982, b	M 1
	<u>45.60</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:09:54	4984, b	S 2
	<u>45.60</u>	Roots Fine Joint, from 1 to 4 o'clock, within 8 inch: YES	00:10:08	4986, b	M 1
	<u>46.70</u>	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:10:44	4988	
	<u>46.70</u>	Roots Fine Lateral, at 2 o'clock, within 8 inch: NO	00:10:53	4989, b	M 1





Inspection report

Date: 20090312	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2175	PSR: 66155
Total Pipe Length: 222.00	Survey Customer: LACDPW	System Owner: COUNTY	Clean Date:	Pre-Cleaned: Jetting	Map Grid #

UNINCORPORATED

1:198	position	observation	MPEG	photo	grade
	<u>46.70</u>	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:10:44	4988	
	<u>46.70</u>	Roots Fine Lateral, at 2 o'clock, within 8 inch: NO	00:10:53	4989, b	M 1
	<u>48.30</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:11:25	4991, b	S 2
	<u>48.30</u>	Roots Fine Joint, from 3 to 4 o'clock, within 8 inch: YES	00:11:39	4993, b	M 1
	<u>52.70</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:12:24	4995	
	<u>52.70</u>	Roots Medium Lateral, at 3 o'clock, 25 #, within 8 inch: NO	00:12:44	4996, b	M 3
	<u>54.40</u>	Roots Fine Joint, from 8 to 11 o'clock, within 8 inch: YES	00:13:18	4998, b	M 1
	<u>57.50</u>	Crack Circumferential, from 8 to 9 o'clock, within 8 inch: YES	00:13:57	5000, b	S 1
	<u>57.50</u>	Roots Fine Joint, from 4 to 10 o'clock, within 8 inch: YES	00:14:23	5002, b	M 1
	<u>58.80</u>	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:15:07	5004	
	<u>58.80</u>	Roots Medium Lateral, at 10 o'clock, 30 #, within 8 inch: NO	00:15:27	5005, b	M 3
	<u>64.70</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:16:12	5007	
	<u>66.40</u>	Crack Longitudinal, at 4 o'clock, within 8 inch: NO	00:16:27	5008, b	S 2
	<u>66.40</u>	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	00:16:37	5010, b	M 1
	<u>69.80</u>	Roots Fine Joint, from 1 to 4 o'clock, within 8 inch: YES	00:17:12	5012, b	M 1
	<u>69.80</u>	Roots Fine Joint, from 7 to 10 o'clock, within 8 inch: YES	00:17:38	5014	M 1
	<u>83.40</u>	Roots Fine Joint, from 2 to 9 o'clock, within 8 inch: YES	00:18:19	5015, b	M 1
	<u>83.40</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:18:30	5017, b	S 2
	<u>87.00</u>	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:19:08	5019, b	M 1
	<u>90.30</u>	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:19:48	5021, b	S 2
	<u>90.30</u>	Crack Circumferential, from 8 to 10 o'clock, within 8 inch: YES	00:20:02	5023, b	S 1
	<u>90.30</u>	Crack Longitudinal, at 2 o'clock, within 8 inch: YES	00:20:15	5025, b	S 2
	<u>90.30</u>	Fracture Longitudinal, at 4 o'clock, within 8 inch: YES	00:20:32	5027, b	S 3
	<u>90.30</u>	Roots Fine Joint, from 2 to 9 o'clock, within 8 inch: YES	00:20:52	5029, b	M 1
	<u>93.90</u>	Roots Fine Joint, from 9 to 11 o'clock, within 8 inch: YES	00:21:33	5031, b	M 1
	<u>93.90</u>	Crack Circumferential, from 7 to 9 o'clock, within 8 inch: YES	00:22:08	5033	S 1
	<u>97.10</u>	Roots Fine Joint, from 2 to 10 o'clock, within 8 inch: YES	00:22:34	5034, b	M 1
	<u>102.80</u>	Deposits Attached Grease, from 10 to 3 o'clock, 5 #, within 8 inch: YES	00:23:17	5036, b	M 2
	<u>107.20</u>	Roots Fine Joint, from 2 to 10 o'clock, within 8 inch: YES	00:24:00	5038, b	M 1
	<u>116.70</u>	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:25:04	5040, b	S 1



Inspection report

Date: 20090312	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2175	PSR: 66155
Total Pipe Length: 222.00	Survey Customer: LACDPW	System Owner: COUNTY	Clean Date:	Pre-Cleaned: Jetting	Map Grid #

UNINCORPORATED

1:198	position	observation	MPEG	photo	grade
	<u>116.70</u>	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:25:04	5040, b	S 1
	<u>117.60</u>	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:25:41	5042, b	S 2
	<u>117.60</u>	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:25:51	5044, b	S 2
	<u>117.60</u>	Crack Longitudinal, at 11 o'clock, within 8 inch: YES	00:26:06	5046, b	S 2
	<u>117.60</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:26:25	5048, b	S 2
	<u>121.00</u>	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:27:03	5050, b	M 1
	<u>124.20</u>	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:27:43	5052, b	M 1
	<u>127.80</u>	Roots Fine Joint, from 8 to 11 o'clock, within 8 inch: YES	00:28:29	5054, b	M 1
	<u>134.70</u>	Roots Fine Joint, from 8 to 11 o'clock, within 8 inch: YES	00:29:10	5056, b	M 1
	<u>141.50</u>	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:30:04	5058, b	M 1
	<u>148.10</u>	Roots Fine Joint, from 2 to 8 o'clock, within 8 inch: YES	00:30:44	5060, b	M 1
	<u>158.20</u>	Crack Circumferential, from 9 to 2 o'clock, within 8 inch: YES	00:32:07	5062, b	S 1
	<u>158.20</u>	Crack Circumferential, from 7 to 10 o'clock, within 8 inch: YES	00:32:21	5064, b	S 1
	<u>158.20</u>	Roots Fine Joint, from 7 to 3 o'clock, within 8 inch: YES	00:32:33	5066, b	M 1
	<u>159.10</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:33:16	5068	
	<u>159.10</u>	Roots Ball Lateral, at 3 o'clock, 95 #, within 8 inch: NO	00:33:35	5069, b	M 4
	<u>160.80</u>	Roots Fine Joint, from 2 to 8 o'clock, within 8 inch: YES	00:34:23	5071, b	M 1
	<u>160.80</u>	Crack Circumferential, from 3 to 8 o'clock, within 8 inch: YES	00:34:50	5073	S 1
	<u>164.20</u>	Roots Fine Joint, from 2 to 10 o'clock, within 8 inch: YES	00:35:06	5074, b	M 1
	<u>164.20</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:35:24	5076, b	S 2
	<u>165.30</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:35:53	5078	
	<u>165.30</u>	Roots Medium Lateral, at 3 o'clock, 45 #, within 8 inch: NO	00:36:11	5079, b	M 3
	<u>166.80</u>	Roots Fine Joint, from 10 to 3 o'clock, within 8 inch: YES	00:36:41	5081, b	M 1
	<u>166.80</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:36:53	5083, b	S 2
	<u>169.00</u>	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:37:24	5085	
	<u>171.50</u>	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:37:50	5086	
	<u>171.50</u>	Roots Fine Lateral, at 10 o'clock, within 8 inch: NO	00:38:05	5087	M 1
	<u>179.90</u>	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:38:49	5088, b	M 1
	<u>179.90</u>	Crack Circumferential, from 9 to 2 o'clock, within 8 inch: YES	00:39:16	5090	S 1



Inspection report

Date: 20090312	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2175	PSR: 66155
Total Pipe Length: 222.00	Survey Customer: LACDPW	System Owner: COUNTY	Clean Date:	Pre-Cleaned: Jetting	Map Grid #

UNINCORPORATED

1:198	position	observation	MPEG	photo	grade
	<u>179.90</u>	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:38:49	5088, b	M 1
	<u>179.90</u>	Crack Circumferential, from 9 to 2 o'clock, within 8 inch: YES	00:39:16	5090	S 1
	<u>192.50</u>	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:40:09	5091, b	S 1
	<u>192.50</u>	Crack Longitudinal, at 7 o'clock, within 8 inch: YES	00:40:29	5094, b	S 2
	<u>192.50</u>	Crack Longitudinal, at 5 o'clock, within 8 inch: YES	00:40:44	5096, b	S 2
	<u>192.50</u>	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:41:03	5098, b	S 2
	<u>193.50</u>	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:41:30	5100, b	S 3
	<u>193.50</u>	Crack Longitudinal, at 4 o'clock, within 8 inch: YES	00:41:41	5102, b	S 2
	<u>193.50</u>	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:41:52	5104, b	S 2
	<u>193.50</u>	Roots Fine Joint, from 2 to 9 o'clock, within 8 inch: YES	00:42:02	5106, b	M 1
	<u>196.60</u>	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:42:54	5108, b	M 1
	<u>200.20</u>	Roots Fine Joint, from 2 to 9 o'clock, within 8 inch: YES	00:43:57	5110, b	M 1
	<u>206.90</u>	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:45:05	5112, b	M 1
	<u>210.20</u>	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:45:40	5114, b	S 2
	<u>210.20</u>	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:45:59	5116, b	S 2
	<u>210.20</u>	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:46:32	5118	M 1
	<u>217.10</u>	Roots Fine Joint, from 7 to 1 o'clock, within 8 inch: YES	00:47:13	5119, b	M 1
	<u>220.40</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:47:47	5121, b	S 2
	<u>220.40</u>	Roots Fine Joint, from 8 to 3 o'clock, within 8 inch: YES	00:47:56	5123, b	M 1
	<u>220.40</u>	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:48:07	5125, b	S 2
	<u>221.80</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:48:45	5127	
	<u>223.10</u>	Roots Fine Joint, at 4 o'clock, within 8 inch: YES	00:49:19	5128, b	M 1
	<u>230.00</u>	Roots Fine Joint, from 1 to 4 o'clock, within 8 inch: YES	00:50:04	5130, b	M 1
	<u>243.60</u>	Roots Fine Joint, at 4 o'clock, within 8 inch: YES	00:51:17	5132, b	M 1
	<u>244.60</u>	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO	00:51:51	5134	
	<u>244.60</u>	Roots Medium Lateral, at 10 o'clock, 20", within 8 inch: NO	00:52:06	5135	M 3
	<u>244.60</u>	Roots Fine Connection, from 8 to 9 o'clock, within 8 inch: NO	00:52:35	5136	M 1
	<u>266.50</u>	Roots Fine Joint, from 10 to 4 o'clock, within 8 inch: YES	00:53:57	5137, b	M 1
	<u>276.60</u>	Roots Fine Joint, from 9 to 3 o'clock, within 8 inch: YES	00:55:00	5139, b	M 1
	<u>283.30</u>	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	00:55:49	5141, b	M 1



Inspection report

Date: 20090312	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2175	PSR: 66155
Total Pipe Length: 222.00	Survey Customer: LACDPW	System Owner: COUNTY	Clean Date:	Pre-Cleaned: Jetting	Map Grid #

UNINCORPORATED

1:198	position	observation	MPEG	photo	grade
	<u>283.30</u>	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	00:55:49	5141, b	M 1
	<u>287.70</u>	Fracture Circumferential, from 7 to 9 o'clock, within 8 inch: YES	00:56:32	5143, b	S 2
	<u>287.70</u>	Crack Circumferential, from 1 to 3 o'clock, within 8 inch: YES	00:56:51	5145, b	S 1
	<u>287.70</u>	Roots Fine Barrel, from 2 to 9 o'clock, within 8 inch: NO	00:57:10	5147	M 2
	<u>290.00</u>	Broken, from 10 to 2 o'clock, within 8 inch: YES	00:57:51	5148, b	S 5
	<u>290.00</u>	Roots Fine Joint, at 11 o'clock, within 8 inch: YES	00:58:42	5150	M 1
	<u>291.20</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:59:01	5151	
	<u>291.20</u>	Roots Ball Lateral, at 9 o'clock, 95 #, within 8 inch: NO	00:59:17	5152	M 4
	<u>291.20</u>	Roots Fine Connection, from 7 to 11 o'clock, within 8 inch: NO	00:59:41	5153	M 1
	<u>291.50</u>	Crack Circumferential, from 7 to 10 o'clock, within 8 inch: YES	01:00:07	5154, b	S 1
	<u>292.70</u>	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	01:00:34	5156, b	S 3
	<u>292.70</u>	Crack Circumferential, from 1 to 3 o'clock, within 8 inch: YES	01:00:50	5158, b	S 1
	<u>293.10</u>	Roots Fine Barrel, from 2 to 4 o'clock, within 8 inch: NO	01:01:24	5160, b	M 2
	<u>299.40</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	01:02:03	5162, b	S 2
	<u>306.30</u>	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	01:02:58	5164, b	M 1
	<u>309.60</u>	Roots Fine Joint, from 11 to 4 o'clock, within 8 inch: YES	01:03:44	5166, b	M 1
	<u>319.20</u>	Crack Circumferential, from 8 to 11 o'clock, within 8 inch: YES	01:04:38	5168, b	S 1
	<u>320.00</u>	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	01:05:08	5170, b	M 1
	<u>320.00</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	01:05:29	5172, b	S 2
	<u>326.80</u>	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	01:06:17	5174, b	M 1
	<u>333.60</u>	Crack Longitudinal, at 11 o'clock, within 8 inch: YES	01:06:55	5176, b	S 2
	<u>344.90</u>	Manhole, within 8 inch: NO, Remarks: 1706-0180	01:08:21	5178	



1706-0180

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5133	4234	88	82	170	1.83	1.26	1.5



Inspection report

Date: 20090319	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2218	PSR: 67126
Total Pipe Length: 292.00	Survey Customer: LACDPW	System Owner: COUNTY	Clean Date:	Pre-Cleaned: Jetting	Map Grid #

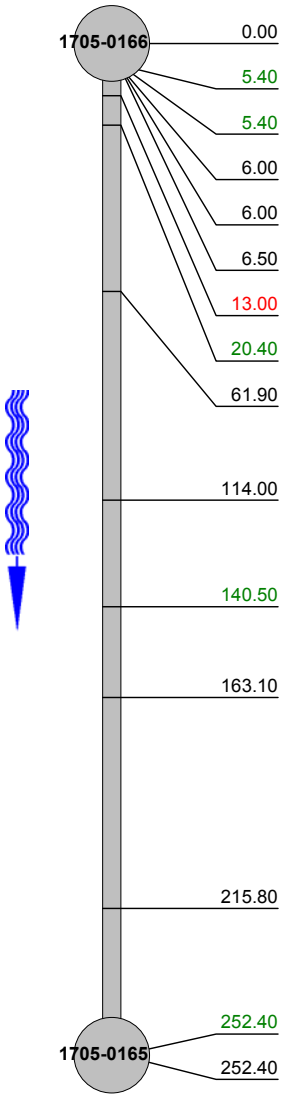
UNINCORPORATED

Street: 228TH ST	Flow Control: Not Controlled	Start MH: 1705-0166
City: ZLAS	Year Renewed	End MH: 1705-0165
Location Code: Light Highway	Tape/Media # A315-027	pipe length: 252.4 ft

Reason for inspection: Routine Assessment	Dia: Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0165 1705-0166 1705	Lining Method:
	Category:

Remark::

1:575	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1705-0166	00:00:30	6134	
	5.40	Crack Circumferential, from 8 to 10 o'clock, within 8 inch: YES	00:01:25	6135, b	S 1
	5.40	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:01:53	6137, b	S 1
	6.00	Water Level, 5", within 8 inch: NO	00:02:47	6140	
	6.00	Water Mark, 10", within 8 inch: NO	00:02:55	6141	
	6.50	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:3:10	6142	
	13.00	Broken, from 6 to 9 o'clock, within 8 inch: YES	00:03:47	6143, b	S 5
	20.40	Crack Circumferential, from 7 to 12 o'clock, within 8 inch: YES	00:04:47	6145, b	S 1
	61.90	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO	00:06:35	6147	
	114.00	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO	00:08:29	6148	
	140.50	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:09:37	6149, b	S 1
	163.10	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO	00:10:59	6151	
	215.80	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO	00:13:08	6152	
	252.40	Vermin Cockroach, within 8 inch: NO	00:14:57	6153	M 1
	252.40	Manhole, within 8 inch: NO, Remarks: 1705-0165	00:15:08	6154	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5114	1100	9	1	10	1.8	1	1.67



Inspection report

Date: 20090319	P.O.☐ Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2234	PSR: 66249
Total Pipe Length: 221.00	Survey Customer: LACDPW	System Owner: COUNTY	Clean Date:	Pre-Cleaned: Jetting	Map Grid ☐

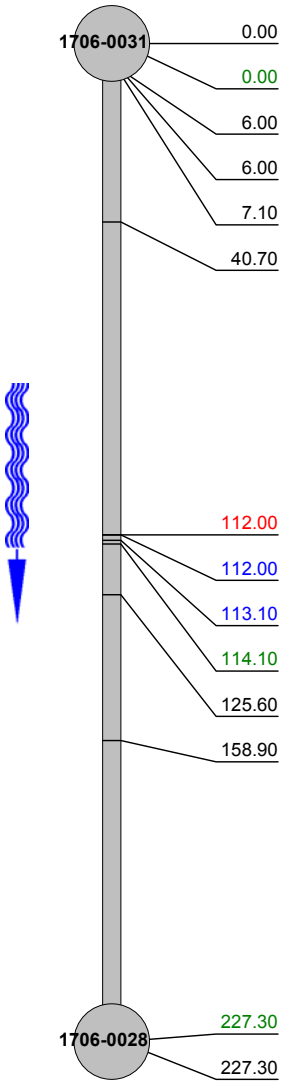
UNINCORPORATED

Street: BROADWELL AV	Flow Control: Not Controlled	Start MH: 1706-0031
City: ZLAS	Year Renewed	End MH: 1706-0028
Location Code: Light Highway	Tape/Media ☐ A315-027	pipe length: 227.3 ft

Reason for inspection: Routine Assessment	Dia:Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0028 1706-0031 1706	Lining Method:
	Category:

Remark::

1:525	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706--0031	00:00:26	6345	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:32	6346	M 1
	6.00	Water Level, 10 ☐, within 8 inch: NO	00:01:02	6347	
	6.00	Water Mark, 15 ☐, within 8 inch: NO	00:01:13	6348	
	7.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:23	6349	
	40.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:35	6350	
	112.00	Broken, from 6 to 2 o'clock, within 8 inch: YES	00:05:11	6351, b	S 5
	112.00	Roots Fine Barrel, from 8 to 9 o'clock, within 8 inch: NO	00:05:32	6355	M 2
	113.10	Roots Fine Barrel, at 10 o'clock, within 8 inch: NO	00:05:51	6356	M 2
	114.10	Roots Fine Joint, from 3 to 8 o'clock, within 8 inch: YES	00:06:04	6357, b	M 1
	125.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:58	6359	
	158.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:09	6360	
	227.30	Vermin Cockroach, within 8 inch: NO	00:10:19	6361	M 1
	227.30	Manhole, within 8 inch: NO, Remarks: 1706--0028	00:10:29	6362	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2213	5	7	12	5	1.4	2



Inspection report

Date: 20090312	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 642	PSR: 67197
Total Pipe Length: 31.00	Survey Customer: LACDPW	System Owner: PLM	Clean Date: 03 09 2009	Pre-Cleaned: Jetting	Map Grid #

Street: VERMONT AV	Flow Control: Not Controlled	Start MH: 1705-0111
City: ZLAS	Year Renewed	End MH: 1705-0110
Location Code: Light Highway	Tape/Media # M313-030	pipe length: 2 ft

Reason for inspection: Routine Assessment	Dia: Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0110 1705-0111 1705	Lining Method:
	Category:

Remark::

1:25	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1705-0111	00:00:19	5799	
	2.00	Fracture Longitudinal, at 12 o'clock, within 8 inch: YES	00:02:23	5800, b	S 3
	2.00	Hole Soil Visible, from 6 to 9 o'clock, within 8 inch: NO	00:03:02	5802, b	S 5
	2.00	Water Level, 95 %, within 8 inch: NO	00:03:18	5804	
	2.00	Abandoned Survey, within 8 inch: NO, Remarks: UNABLE TO CONTINUE IN PIP	00:03:33	5805, b	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	0000	8	0	8	4	0	4



Inspection report

Date: 20090311	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 622	PSR: 67194
Total Pipe Length: 150.00	Survey Customer: LACDPW	System Owner: PLM	Clean Date: 03 05 2009	Pre-Cleaned: Jetting	Map Grid #

Street: VERMONT AV	Flow Control: Not Controlled	Start MH: 1705-0465
City: ZLAS	Year Renewed	End MH: 1705-0107
Location Code: Light Highway	Tape/Media # M313-029	pipe length: 137.2 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0107 1705-0465 1705	Lining Method:
	Category:

Remark::

1:325	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1705-0465	00:00:24	5441	
	2.00	Crack Circumferential, from 9 to 12 o'clock, within 8 inch: YES	00:01:21	5442	S 1
	3.00	Broken Void Visible, from 10 to 2 o'clock, within 8 inch: NO	00:01:43	5443, b	S 5
	3.00	Water Level, 10", within 8 inch: NO	00:01:57	5445	
	6.00	Water Level, 15", within 8 inch: NO	00:02:33	5446	
	50.00	Fracture Circumferential, from 10 to 7 o'clock, within 8 inch: YES	00:04:00	5447, b	S 2
	51.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:17	5449	
	52.40	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:04:32	5450, b	S 1
	128.00	Fracture Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:07:00	5452, b	S 2
	135.20	Tap Factory, at 3 o'clock, 6", within 8 inch: NO	00:07:39	5454, b	
	137.20	Vermin Cockroach, within 8 inch: NO	00:08:04	5456	M 1
	137.20	Manhole, within 8 inch: NO, Remarks: 1705-0107	00:08:19	5457	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5122	1100	11	1	12	2.2	1	2



Inspection report

Date: 20090311	P.O. # Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 620	PSR: 67193
Total Pipe Length: 150.00	Survey Customer: LACDPW	System Owner: PLM	Clean Date: 03 05 2009	Pre-Cleaned: Jetting	Map Grid #

Street: VERMONT AV	Flow Control: Not Controlled	Start MH: 1705-0106
City: ZLAS	Year Renewed	End MH: 1705-0465
Location Code: Light Highway	Tape/Media # M313-029	pipe length: 156.8 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0106 1705-0465 1705	Lining Method:
	Category:

Remark::

1:350	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1705-0106	00:00:24	5407	
	4.30	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:00:50	5408, b	S 1
	4.30	Water Level, 10 #, within 8 inch: NO	00:01:04	5410	
	5.60	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:01:20	5411	
	26.10	Crack Circumferential, from 9 to 2 o'clock, within 8 inch: YES	00:02:56	5412, b	S 1
	32.10	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:03:30	5414, b	S 1
	35.20	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:04:00	5416, b	S 1
	67.00	Fracture Circumferential, from 12 to 5 o'clock, within 8 inch: YES	00:05:24	5418, b	S 2
	68.10	Tap Factory, at 3 o'clock, 6", within 8 inch: NO	00:05:54	5420	
	68.10	Fracture Circumferential, from 8 to 4 o'clock, within 8 inch: NO	00:06:06	5421	S 2
	85.50	Crack Circumferential, from 1 to 3 o'clock, within 8 inch: YES	00:07:16	5422, b	S 1
	102.20	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:08:12	5424	
	122.40	Crack Longitudinal, at 12 o'clock, within 8 inch: YES	00:09:13	5425, b	S 2
	153.60	Joint Offset Large, within 8 inch: YES	00:10:56	5427	S 2
	156.80	Hole Soil Visible, from 10 to 5 o'clock, within 8 inch: NO	00:11:56	5428, b	S 5
	156.80	Broken Soil Visible, from 10 to 5 o'clock, within 8 inch: NO	00:12:10	5432, b	S 5
	156.80	Abandoned Survey, within 8 inch: NO, Remarks: UNABLE TO GET PASSED BROK	00:13:05	5436	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5224	0000	23	0	23	2.09	0	2.09

ENCLOSURE 5:

CCTV Sewer Inspection Project Schedule

CCTV PROJECT SCHEDULE

Unincorporated South Yard

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	STATUS
2005-2006	Y0TV0506B	192,783	COMPLETED
2006-2007	Y0TV0607A	123,286	COMPLETED
2007-2008	Y0TV0708G	358,900	COMPLETED
2008-2009	Y0TV0809D	115,076	COMPLETED
2009-2010	Y0TV0910A	137,985	IN PROGRESS
2009-2010	Y0TV0910D	300,876	IN PROGRESS
2011-2012	Y0TV1112D	374,308	FUTURE
2012-2013	Y0TV1213C	412,815	FUTURE
2013-2014	215	26,580	FUTURE
2014-2015	214	69,121	FUTURE

TOTAL (FT): 2,111,730
TOTAL (MILES) 400