

GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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

> IN REPLY PLEASE REFER TO FILE: IN REPLY PLEASE

REFER TO FILE: SM-1

August 5, 2009

Mr Jim Bell, Director of Public Works City of Rancho Palos Verdes 30940 Hawthorne Boulevard Rancho Palos Verdes, CA 90275

Attention Mr Rick James

Dear Mr Bell

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT Y0TV0607D

This letter is to inform you that as part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 126,735 feet or approximately 17 3 percent of the City of Rancho Palos Verdes' sewer system

The enclosed report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's 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)
- Quick Structural Rating Report Priority List and Quick Structural Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

Mr Jim Bell August 5, 2009 Page 2

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

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr Robert Swartz at (626) 300-3367 or rswartz@dpw lacounty.gov.

Very truly yours,

GAIL FARBER

Director of Public Works

JOHN T WALKER

Assistant Deputy Director Sewer Maintenance Division

PK gy

Enc

bc: Programs Development (PILKER)

bc: JW, KL, RS, FV, File (Project Y0TV0607D), SPINDLE

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

PROJECT NAME: Y0TV0607D PROJECT MGR: Kari Eskridge PROJECT DATE: 5/16/07-8/20/07 CONTACT NO: (626) 300-3390

SUP. DISTRICT(s): 4 MAP PAGE(S): 1490, 1491, 1544, 1545

Report By: Phyo Kyaw Report Date: 07/29/09

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 126,735 feet or approximately 17.3 percent of the City of Rancho Palos Verdes' sewer system.

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

PROJECT AREA AND DESCRIPTION

Project Y0TV0607D included sewer lines located in both the Cities of Palos Verdes Estates and Rancho Palos Verdes. Enclosed for your reference is an overview map of the project area within your City (Enclosure 1).

DEFECT GRADE DESCRIPTION

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

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

MAINTENANCE REPORT

Our inspection revealed that approximately 94.2 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 5.8 percent of the inspected pipe segments within the City of Rancho Palos Verdes area had a PACP maintenance grade of 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 is a color-coded map showing the quick maintenance rating for each pipe segment.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	75,032	59.2	364
2: Good	22,560	17.8	94
3: Fair	21,737	17.2	90
4: Poor	7,131	5.6	31
5: Immediate Attention	275	0.2	2
TOTAL	126,735	100.0	581

STRUCTURAL REPORT

Our inspection revealed that approximately 93.6 percent of the inspected pipe segments within the City of Rancho Palos Verdes were free of severe structural defects. However, the remaining 6.4 percent of the inspected pipe segments had a PACP structural grade of 4 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 34 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 34 segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	96,175	75.9	454
2: Good	17,848	14.1	75
3: Fair	4,523	3.6	18
4: Poor	2,853	2.2	10
5: Immediate Attention	5,336	4.2	24
TOTAL	126,735	100.0	581

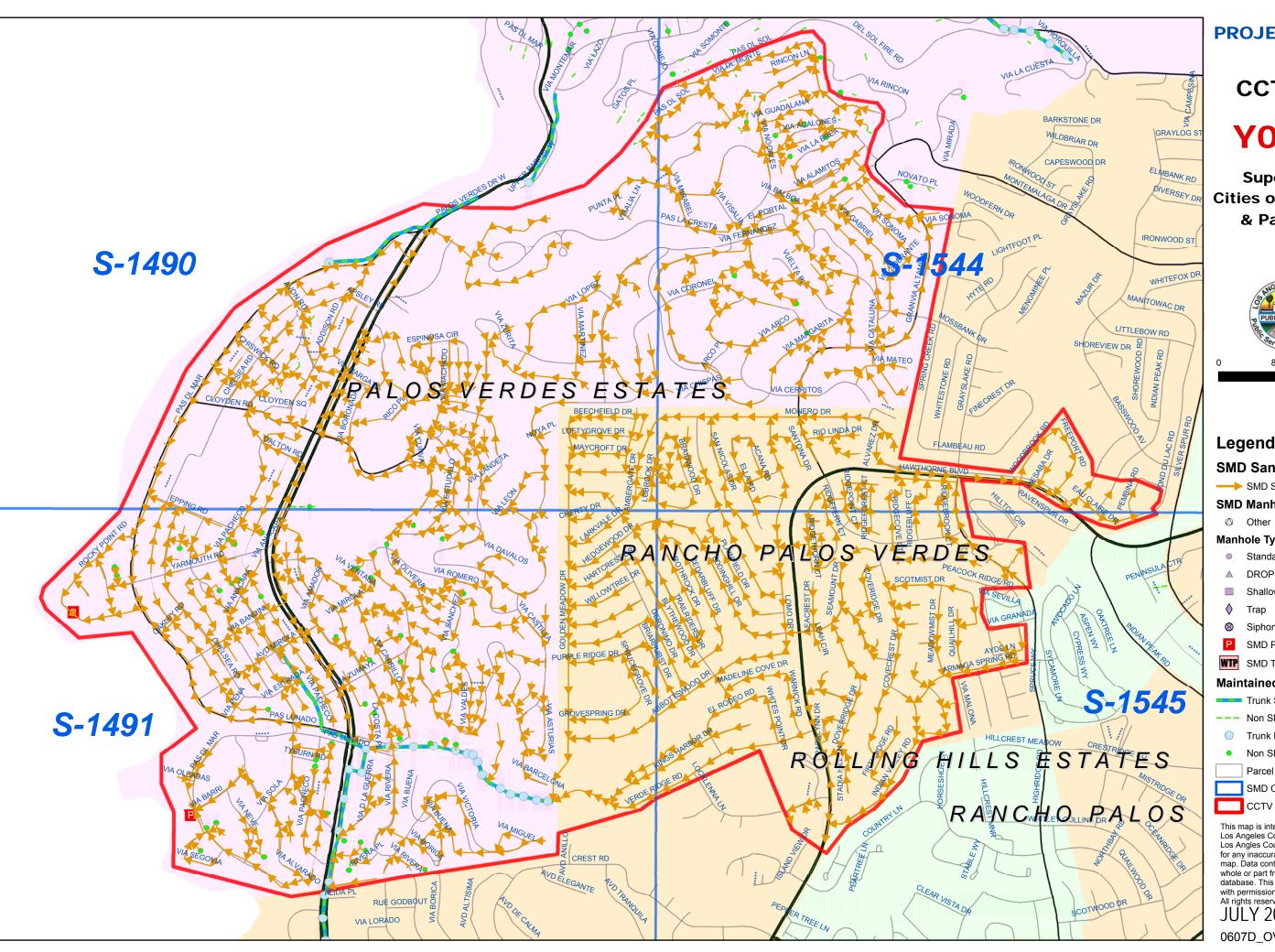
FUTURE PROJECTS

The Sewer Condition Assessment Program will be performing future closed-circuit television (CCTV) inspection of the remaining sewer lines within the City of Rancho Palos Verdes according to the following schedule.

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2005-2006	Y0TV0506F	76,591	10.5	COMPLETE
2006-2007	Y0TV0607D	126,735	17.3	COMPLETE
2008-2009	Y0TV0809C	31,410	4.3	IN PROGRESS
2009-2010		266,712	36.5	
2011-2012		100,727	13.8	
2012-2013		124,667	17.0	
2013-2014		4,594	0.6	
TOTAL		731,436	100.0	

ENCLOSURE 1:

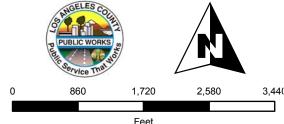
Project Overview Map



PROJECT OVERVIEW MAP

CCTV PROJECT Y0TV0607D

Supervisorial District 4 Cities of Rancho Palos Verdes & Palos Verdes Estates



Legend

SMD Sanitary Sewers

→ SMD Sanitary Sewers

SMD Manholes

Other

Manhole Type

- Standard
- Shallow
- ⊗ Siphon
- P SMD Pump Satations
- WTP SMD Treatment Plants

Maintained by Others:

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

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JULY 2009

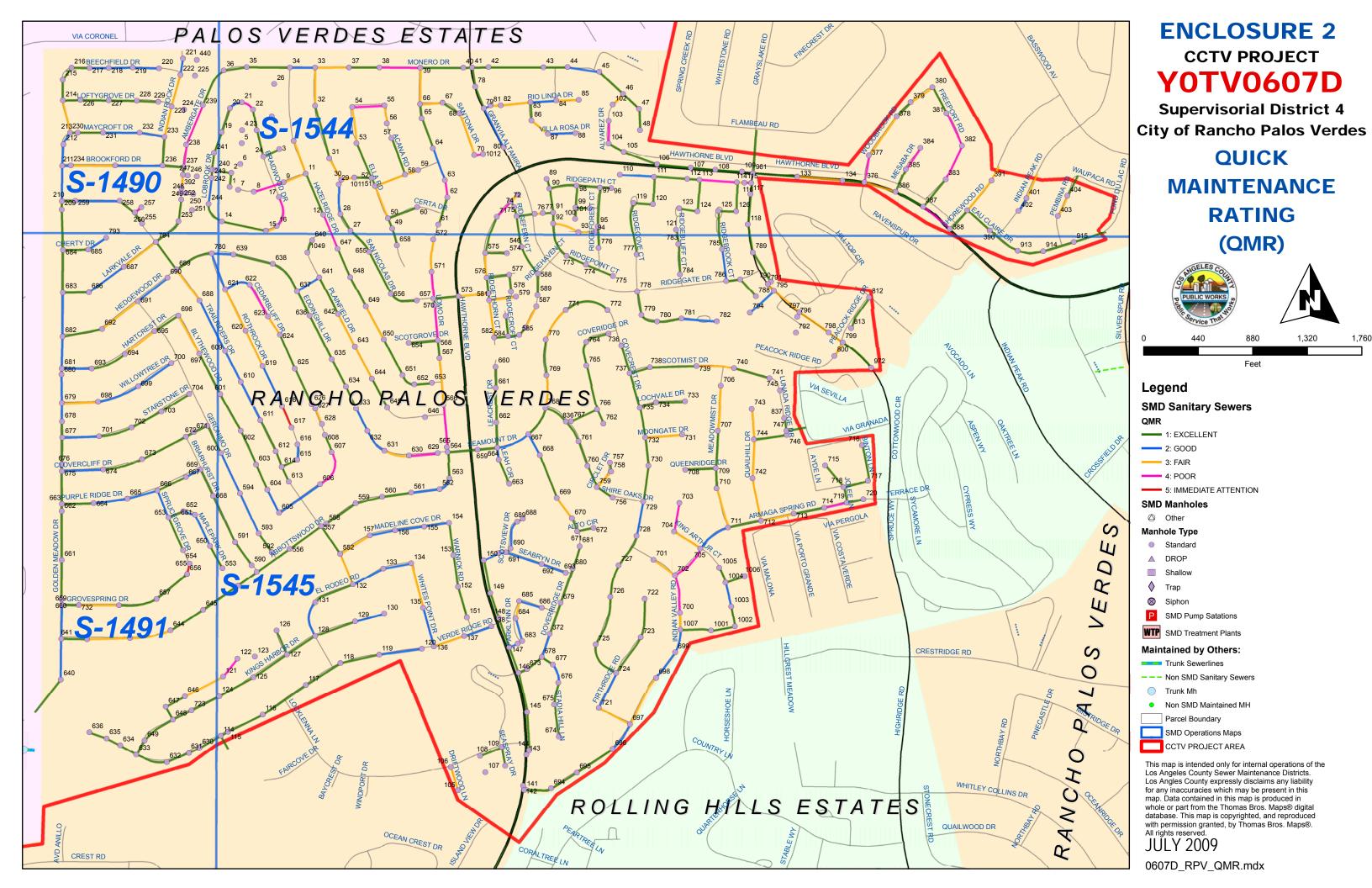
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ENCLOSURE 2:

- Quick Maintenance Rating Report Priority List
- Quick Maintenance Rating Map

ENCLOSURE 2 QUICK MAINTENANCE RATING REPORT PRIORITY LIST CIYT OF RANCHO PALOS VERDES (Y0TV0607D) as of 07/24/07

Item No.	QMR	Start MH	End MH	Street	Observation: Location	Corrective Action Taken
1	5143	1545-0617	1545-0618	ROTHROCK DR	Roots	Rodder (Completed 1/26/09)
2	5141	1491-0656	1491-0655	SPRUCEGROVE DR	Roots; Deposits	Rodder; Hydrojet (Completed 1/27/09)
3	431B	1545-0571	1545-0572	LOMO DR	Roots	Rodder (Completed 1/26/09)
4	4236	1545-0703	1545-0704	KING ARTHUR CT	Roots	Rodder (Completed 1/26/09)
5	4236	1545-0702	1545-0700	INDIAN VALLEY RD	Roots	Rodder (Completed 1/26/09)
6	4232	1544-0084	1544-0085	RIO LINDA DR	Roots	Rodder (Completed 1/26/09)
7	4232	1545-0566	1545-0565	LOMO DR	Roots	Rodder (Completed 1/26/09)
8	4231	1544-0009	1544-0008	BIRCHMAN DR	Roots	Rodder (Completed 1/23/09)
9	4231	1490-0239	1490-0238	AMBERGATE DR	Roots	Rodder (Completed 1/27/09)
10	4200	1545-0623	1545-0622	CEDARBLUFF DR	Roots	Rodder (Completed 1/23/09)
11	4133	1544-0381	1544-0382	FREEPORT RD	Roots	Rodder (Completed 1/23/09)
12	4133	1544-0387	1544-0388	HAWTHORNE BVLD	Roots	Rodder (Completed 1/27/09)
13	4132	1545-0637A	1545-0637B	EASEMENT	Roots; Roots inside End MH	Rodder; Clean MH (Completed 1/27/09)
14	4132	1544-0382	1544-0383	FREEPORT RD	Roots	Rodder (Completed 1/23/09)
15	4131	1545-0121	1545-0122	EASEMENT by KINGS HARBOR and ROCK PARK	Roots	Rodder (Completed 2/10/09)
16	4131	1544-0055	1544-0054	ELLA RD	Roots	Rodder (Completed 1/23/09)
17	4131	1545-0629	1545-0630	EDINGHILL DR	Roots	Rodder (Completed 1/26/09)
18	4131	1545-0571	1545-0570	LOMO DR	Roots	Rodder (Completed 1/26/09)
19	4131	1544-0404		PEMBINA RD	Roots	Rodder (Completed 1/23/09)
20	4131	1544-0377	1544-0376	WOODBROOK RD	Roots	Rodder (Completed 1/23/09)
21	4131	1544-0384	1544-0385	MESABA DR	Roots; Hole at trough of End MH	Rodder (Completed 1/23/09) Repair MH base (Completed 3/25/09)
22	4124	1491-0655	1491-0656	SPRUCEGROVE DR	Deposits; Roots	Rodder. Hydrojet (Completed 1/27/09)
23	4122	1545-0647	1544-0012	HAZELRIDGE DR	Intruding Lateral Lining: 156'; Roots	Millsaw (Completed 5/13/09) Hydrojet (Completed 2/10/09)
24	4121	1544-0113	1544-0114	ALLEY by HAWTHORNE and HIGHRIDGE	Roots	Rodder (Completed 2/10/09)
25	411A	1545-0569	1545-0568	LOMO DR	Roots in lateral; Obstacle: 241'	Remove obstacle (Completed 1/26/09)
26	4118	1544-0062	1544-0063	LOMO DR	Roots	Rodder (Completed 1/23/09)
27	4118	1544-0103	1544-0104	ALVAREZ DR	Roots; Hole at trough of End MH	Rodder (Completed 1/23/09) Repair MH base (Completed 3/25/09)
28	4117	1490-0256	1490-0257	CHERTY DR	Roots in lateral; Deposit rocks inside End MH	Remove deposit rocks (Completed 1/27/09)
29	4112	1545-0630	1545-0629	EDINGHILL DR	Roots	Rodder (Completed 1/27/09)
30	4111	1545-0719	1545-0714	ARMARGA SPRING RD	Roots; Deposits; Hole at trough of End MH	Rodder (Completed 1/26/09) Repair MH base (Completed 3/25/09)
31	4100	1545-0622	1545-0623	CEDARBLUFF DR	Roots	Rodder (Completed 1/26/09)
32	4100	1544-0072	1544-0071	RIDGETHORNE CT	Roots	Rodder (Completed 1/27/09)
33	4100	1544-0115	1544-0116	HIGHRIDGE RD	Camera underwater	Hydrojet (Completed 1/27/09)



ENCLOSURE 3:

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

ENCLOSURE 3 QUICK STRUCTURAL RATING REPORT PRIORITY LIST CITY OF RANCHO PALOS VERDES (Y0TV0607D)

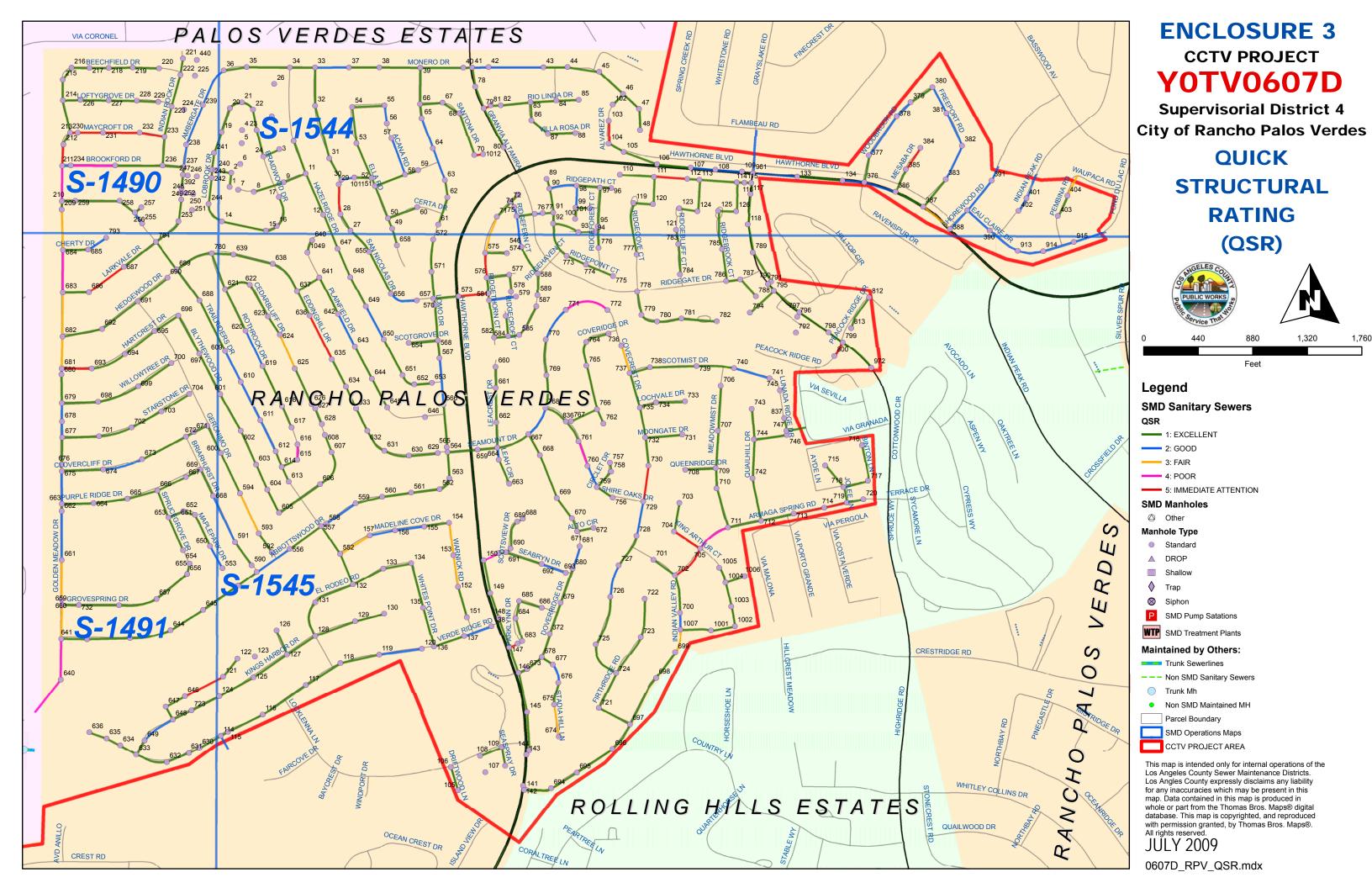
as of 07/24/07

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5443	1545-0730	1545-0729	COVERCREST DR	Broken and deformed: 174'; multiple fractures: 68'	Lining: MH to MH	331
2	5442	1544-0081	1544-0079	GRANVIA ALTAMIRA	Broken: 14', 21'; fractures	Lining: MH to MH	59
3	5243			and ROCK PARK	Fracture: 223'; broken and multiple fractures: 229';multiple fractures: 313'; joint offset (large): 159'	Lining: MH to MH	350
4	5223			EASEMENT by RIDGEFALLS and RIDGETHORN	Broken: 188'; Fracture: 177', 197'	Lining: MH to MH	201
5	5223	1544-0384	1544-0385	MESABA DR	Hole: End MH 1544-0385	CSMD will repair MH base.	
6	5200	1490-0233	1490-0232	MAYCROFT DR	Hole at lateral: 219'; hole: End MH 1490-0232	Structural integrity in tact. No action needed. CSMD will repair MH base.	-
7	5200	1491-0687	1491-0686	LARKVALE DR	Hole: End MH 1491-0686	CSMD will repair MH base.	
8	5200	1544-0103	1544-0104	ALVAREZ DR	Hole: End MH 1544-0104	CSMD will repair MH base.	
9	5142	1545-0682	1545-0147	EASEMENT by PARKLNN DR	Broken: 15'; fracture: 12'	Emergency Repair (Lining MH to MH): completed June 2009	
10	5141	1490-0212	1490-0211	GOLDEN MEADOW DR	Hole: End MH 1490-0211	CSMD will repair MH base.	
11	5141	1491-0693	1491-0681	HARTCREST DR	Broken: 162'	Lining: MH to MH	242
12	5141	1544-0111	1544-0112	EASEMENT by RIDGEBLUFF	Hole: 36'	Structural integrity in tact. No action needed.	-
13	5122	1544-0070	1544-1012	EASEMENT by SANTONA DR	Broken: 8', 38'	Emergency Repair (Lining MH to MH): completed June 2009	
14	5121	1545-0575	1545-0576	RIDGETHORNE CT	Broken: 172'; multiple fracture: 99'	Lining: MH to MH	200
15	5121	1545-0799	1545-0800	HIGHRIDGE RD	Broken: 129'	Lining: MH to MH	160
16	5100	1490-0213	1490-0230	GOLDEN MEADOW DR	Hole: End MH 1490-0213	CSMD will repair MH base.	
17	5100	1490-0230	1490-0231	MAYCROFT DR	Hole: End MH 1490-0230	CSMD will repair MH base.	
18	5100	1490-0232	1490-0231	MAYCROFT DR	Hole: End MH 1490-0231	CSMD will repair MH base.	
19	5100	1545-0635	1545-0636	EDDINGHILL DR	Hole: End MH 1545-0636	CSMD will repair MH base.	
20	5100	1544-0028	1544-0029	SAN NICOLAS DR	Hole: End MH 1544-0029	CSMD will repair MH base.	
21	5100	1545-0704	1545-0705	KING ARTHUR CT	Broken with void visible: 41'	Lining: MH to MH	253
22	5100	1545-0714	1545-0713	ARMARGA SPRING RD	Hole: End MH 1545-0713	CSMD will repair MH base.	
23	5100	1545-0705	1545-0702	ARMARGA SPRING RD	Broken: 187'	Lining: MH to MH	315
24	5100	1545-0719	1545-0714	ARMARGA SPRING RD	Roots; Deposits; Hole: End MH 1545-0714	Rodder; CSMD will repair MH base.	

ENCLOSURE 3 QUICK STRUCTURAL RATING REPORT PRIORITY LIST CITY OF RANCHO PALOS VERDES (Y0TV0607D)

as of 07/24/07

25	4231	1491-0684	1491-0683	GOLDEN MEADOW DR	Fractures: 195', 273'	Lining: MH to MH	351
26	4221	1545-0150		EASEMENT by HAWTHORNE and SEABRYN	Broken and multiple fractures: 40'	Lining: MH to MH	76
27	4132	1490-0211	1490-0210	GOLDEN MEADOW DR	Broken: 146'; multiple cracks	Lining: MH to MH	295
28	4132	1491-0640	1491-0639	GOLDEN MEADOW DR	Broken: 101', fractures: 99', 158'	Structural integrity in tact. No action needed.	1
29	4131	1491-0641	1491-0640	GOLDEN MEADOW DR	Hole: End MH 1491-0640	CSMD will repair MH base.	
30	412H	1490-0235	1490-0234	BROOKFORD DR	Fracture: 123', 146', 173'	Structural integrity in tact. No action needed.	1
31	4100	1545-0616	1545-0615	ROTHROCK DR	Multiple fractures: 55'	Lining: MH to MH	230
32	4100	1545-0760	1545-0761	SHIRE OAKS DR	Multiple fractures: 40'	Structural integrity in tact. No action needed.	-
33	4100	1545-0772	1545-0771	SEAMOUNT DR	Broken and multiple fractures: 265'	Lining: MH to MH	340
34	4100	1545-0711	1545-0705	ARMARGA SPRING RD	Broken: 26'	Structural integrity intact. No action needed.	-



ENCLOSURE 4:

Infrastructure Inspection Reports for Grades 4 and 5



Inspection report

Date: 07/20/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 820	PSR: 75652				
Total Pipe Length: 303.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/19/2007	Pre-Cleaned: Jetting	Map Grid #: 1545				
	VERDES								

Street: COVERCREST DR Flow Control: Not Controlled Start MH: 1545-0730
City: RPV Year Renewed End MH: 1545-0729

Location Code: Light Highway Tape/Media #: G312-041 pipe length: 330.9 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins 00:00:44 8040	grade
15.70 1645-0730 1645-0730 1645-0730 1645-0730 1645-0730 1645-0730 1645-0730 1645-0730 17480 174.80 175.90 175.90 175.90 176.90 1775.90	
1645-0730 42.70 S1 Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES, Start 00:02:25 8043	M 2
Tap Factory Active, at 3 o'clock, 6", within 8 inch: YES 0.003:41 8044	
Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 0:04:23 8045 80.80 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 0:06:34 8047 138.20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 0:06:34 8047 161.50 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 0:07:23 8048 174.40 S2 Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES, Start 0:08:24 8049 174.40 S3 Broken, from 7 to 6 o'clock, within 8 inch: YES, Start 0:09:24 8051, b 175.90 F2 Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES, End 0:10:51 8052 175.90 F3 Broken, from 7 to 6 o'clock, within 8 inch: YES, End 0:11:12 8053, b 175.90 F4 Deformed, 15 %, within 8 inch: NO, End 0:11:36 8054 Crack Multiple, from 6 to 1 o'clock, within 8 inch: YES 0:12:20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: YES, End 0:11:31 8056 212.20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: YES, End 0:11:30 8057 Tap Factory Active, at 9 o'clock, 6", within 8 inch: YES 0:15:04 8057 233.50 Tap Factory Active, at 9 o'clock, 6", within 8 inch: YES 0:15:04 8059 246.10 Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES 0:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: YES 0:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: YES 0:15:04 8060 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 0:18:10 8061 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 0:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: YES 0:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: YES 0:18:10 8062	
80.80 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:04:48 8046 138.20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:06:34 8047 161.50 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:07:23 8048 174.40 S2 Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES, Start 00:08:24 8049 174.40 S4 Deformed, 15 %, within 8 inch: NO, Start 00:09:24 8051, b 175.90 F2 Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES, End 00:10:51 8052 175.90 F4 Deformed, 15 %, within 8 inch: YES, End 00:11:12 8053, b 175.90 F4 Deformed, 15 %, within 8 inch: NO, End 00:11:36 8054 Crack Multiple, from 6 to 1 o'clock, within 8 inch: YES 00:12:24 8055 212.20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: YES, End 00:14:04 8057 233.50 Tap Factory Active, at 3 o'clock, 6", within 8 inch: YES 00:14:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: YES 00:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: YES 00:17:38 8061 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:18:10 8062 1945-0729 Tap Factory Active, at 9 o'clock, 6", within 8 inch: YES 00:18:10 8062 1945-0729 Tap Factory Active, at 9 o'clock, within 8 inch: YES 00:18:10 8062 1945-0729 Tap Factory Active, at 9 o'clock, within 8 inch: YES 00:18:10 8062 1945-0729	S 4
138.20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:06:34 8047 161.50 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:07:23 8048 174.40 82 Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES, Start 00:08:24 8049 174.40 83 Broken, from 7 to 6 o'clock, within 8 inch: YES, Start 00:08:51 8050, b 174.40 84 Deformed, 15 %, within 8 inch: NO, Start 00:09:24 8051, b 175.90 F2 F2 Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES, End 00:10:51 8052 175.90 F3 Broken, from 7 to 6 o'clock, within 8 inch: YES, End 00:11:12 8053, b 176.90 F4 Deformed, 15 %, within 8 inch: NO, End 00:11:36 8054 186.00 Crack Multiple, from 6 to 1 o'clock, within 8 inch: YES 212.20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:13:31 8056 226.90 F1 Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: NO 00:14:30 8058 246.10 Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES 00:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:16:29 8060 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:17:38 8061 307.30 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:18:46 8063	
161.50 174.40 174.40 175.20 176.40 177.40 17	
174.40 S2 Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES, Start 00:08:24 8049 174.40 S3 Broken, from 7 to 6 o'clock, within 8 inch: YES, Start 00:08:51 8050, b 174.40 S4 Deformed, 15 %, within 8 inch: NO, Start 00:09:24 8051, b 175.90 F2 Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES, End 00:10:51 8052 175.90 F3 Broken, from 7 to 6 o'clock, within 8 inch: YES, End 00:11:12 8053, b 175.90 F4 Deformed, 15 %, within 8 inch: NO, End 00:11:36 8054 186.00 Crack Multiple, from 6 to 1 o'clock, within 8 inch: YES 00:12:24 8055 212.20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:13:31 8056 226.90 F1 Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES, End 00:14:04 8057 233.50 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:14:30 8058 246.10 Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES 00:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:16:29 8060 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:17:38 8061 307.30 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 1845-0729 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:18:46 8063	
174.40 S3 Broken, from 7 to 6 o'clock, within 8 inch: YES, Start 00:08:51 8050, b 174.40 S4 Deformed, 15 %, within 8 inch: NO, Start 00:09:24 8051, b 175.90 F2 Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES, End 00:10:51 8052 175.90 F3 Broken, from 7 to 6 o'clock, within 8 inch: YES, End 00:11:12 8053, b 175.90 F4 Deformed, 15 %, within 8 inch: NO, End 00:11:36 8054 186.00 Crack Multiple, from 6 to 1 o'clock, within 8 inch: YES 00:12:24 8055 212.20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:13:31 8056 226.90 F1 Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES, End 00:14:04 8057 233.50 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:14:30 8058 246.10 Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES 00:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:16:29 8060 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:17:38 8061 307.30 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 308.40 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:18:46 8063	
174.40 S4 Deformed, 15 %, within 8 inch: NO, Start 00:09:24 8051, b 175.90 F2 Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES, End 00:10:51 8052 175.90 F3 Broken, from 7 to 6 o'clock, within 8 inch: YES, End 00:11:12 8053, b 175.90 F4 Deformed, 15 %, within 8 inch: NO, End 00:11:36 8054 186.00 Crack Multiple, from 6 to 1 o'clock, within 8 inch: YES 00:12:24 8055 212:20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:13:31 8056 226.90 F1 Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES, End 00:14:04 8057 233.50 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:14:30 8058 246.10 Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES 00:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:16:29 8060 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:17:38 8061 307.30 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: YES 00:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: YES 00:18:10 8062	S 4
175.90 F2 Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES, End 00:10:51 8052 175.90 F3 Broken, from 7 to 6 o'clock, within 8 inch: YES, End 00:11:12 8053, b 175.90 F4 Deformed, 15 %, within 8 inch: NO, End 00:11:36 8054 186.00 Crack Multiple, from 6 to 1 o'clock, within 8 inch: YES 00:12:24 8055 212.20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:13:31 8056 226.90 F1 Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES, End 00:14:04 8057 233.50 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:14:30 8058 246.10 Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES 00:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:16:29 8060 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:17:38 8061 307.30 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 308.40 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:18:46 8063	S 5
175.90 F3 Broken, from 7 to 6 o'clock, within 8 inch: YES, End 00:11:12 8053, b 175.90 F4 Deformed, 15 %, within 8 inch: NO, End 00:11:36 8054 186.00 Crack Multiple, from 6 to 1 o'clock, within 8 inch: YES 00:12:24 8055 212.20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:13:31 8056 226.90 F1 Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES, End 00:14:04 8057 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:14:30 8058 246.10 Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES 00:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:16:29 8060 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:17:38 8061 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:18:46 8063	S 5
175.90 F4 Deformed, 15 %, within 8 inch: NO, End 00:11:36 8054 186.00 Crack Multiple, from 6 to 1 o'clock, within 8 inch: YES 00:12:24 8055 212.20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 0:13:31 8056 226.90 F1 Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES, End 00:14:04 8057 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 0:14:30 8058 246.10 Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES 00:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 0:16:29 8060 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:17:38 8061 307.30 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: YES 00:18:46 8063	S 4
186.00 Crack Multiple, from 6 to 1 o'clock, within 8 inch: YES 00:12:24 8055	S 5
212.20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:13:31 8056 226.90 F1 Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES, End 00:14:04 8057 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:14:30 8058 Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES 00:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:16:29 8060 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:17:38 8061 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:18:46 8063	S 5
226.90 F1 Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES, End 00:14:04 8057 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:14:30 8058 246.10 Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES 00:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:16:29 8060 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:17:38 8061 307.30 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:18:46 8063	S 3
233.50 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:14:30 8058 246.10 Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES 00:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:16:29 8060 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:17:38 8061 307.30 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:18:46 8063	
246.10 Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES 00:15:04 8059 283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:16:29 8060 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:17:38 8061 307.30 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:18:46 8063	
283.00 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:16:29 8060 307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:17:38 8061 307.30 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:18:46 8063	
307.30 Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES 00:17:38 8061 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:18:46 8063	S 1
307.30 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:18:10 8062 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:18:46 8063	
308.40 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:18:46 8063	S 3
1545-0729	
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Inspection report

Date: 05/31/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 350	PSR: 77382			
Total Pipe Length: 56.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 05/30/2007	Pre-Cleaned: Jetting	Map Grid #: 1544			
VERDES								

Street: **GRANVIA ALTAMIRA** Start MH: 1544-0081 Flow Control: **Not Controlled** City: **RANCHO PALOS VERDES** Year Renewed End MH: 1544-0079 Location Code: Easement/Right of Way Tape/Media #: G312-010 pipe length: 59.1 ft

Reason for inspection: **Routine Assessment** Dia/Height: Circular 8"

Vitrified Clay Pipe Pipe Length: Material: Use of Sewer: Sanitary

Lining Method: Drain. Area: 0081/1544-0079/1544 Category:

	1:150	position	observation	on			MPEG	photo	grade
	1544-0081	0.00	Manhole, v	within 8 inch: NO, Re	marks: Upstream Sur	vey Begins	00:00:36	2985	
		0.00	Water Lev	el, 5 %, within 8 inch:	NO		00:00:58	2986	M 2
		1.50	Fracture C	circumferential, from 7	7 to 6 o'clock, within 8	inch: NO	00:02:16	2987	S 2
		1.50	Roots Fine	e Barrel, from 7 to 6 o	clock, within 8 inch: N	NO	00:02:40	2988	M 2
		4.80 S1	Roots Fine	e Joint, from 7 to 5 o'd	clock, within 8 inch: YI	ES, Start	00:03:42	2989	
		14.50	Joint Offse	et Medium, within 8 in	ch: YES		00:04:49	2990	S 1
		16.20	Crack Mul	tiple, from 7 to 6 o'clo	ock, within 8 inch: NO		00:05:42	2991	S 3
		20.70	Fracture C	Circumferential, from 4	to 8 o'clock, within 8	inch: YES	00:06:50	2992	S 2
		20.70	Joint Offse	et Medium, within 8 in	ch: YES		00:07:23	2993	S 1
8		21.20 S2	Fracture M	fultiple, from 7 to 6 o'	clock, within 8 inch: N	O, Start	00:08:26	2994	S 4
		21.20 S3	Broken, fro	om 8 to 4 o'clock, with	nin 8 inch: YES, Start		00:08:51	2995, b	S 5
		21.20 S4	Deformed,	15 %, within 8 inch:	NO, Start		00:09:29	2996, b	S 5
		26.70 F2	Fracture M	fultiple, from 7 to 6 o'	clock, within 8 inch: N	O, End	00:11:32	2997	S 4
		26.70 F3	Broken, fro	om 8 to 4 o'clock, with	nin 8 inch: YES, End		00:11:59	2998	S 5
		26.80 F4	Deformed,	15 %, within 8 inch:	NO, End		00:12:19	2999	S 5
		56.10 F1	Roots Fine	e Joint, from 7 to 5 o'd	clock, within 8 inch: YI	ES, End	00:15:15	3000	
	1544-0079	59.10	Manhole, v	within 8 inch: NO, Re	marks: Downstream S	Survey Ends	00:16:11	3001	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI



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YOTV0607D 1788 N. Neville St Orange, Ca 92865 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 08/01/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 936	PSR: 79624					
Total Pipe Length: 344.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 08/01/2007	Pre-Cleaned: Jetting	Map Grid #: 1545					
	VERDES									

 Street:
 0
 Flow Control:
 Not Controlled
 Start MH:
 1491-0646

 City:
 RPV
 Year Renewed
 End MH:
 1545-0121

 Location Code: Easement/Right of Way
 Tape/Media #:
 G312-048
 pipe length:
 349.5 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

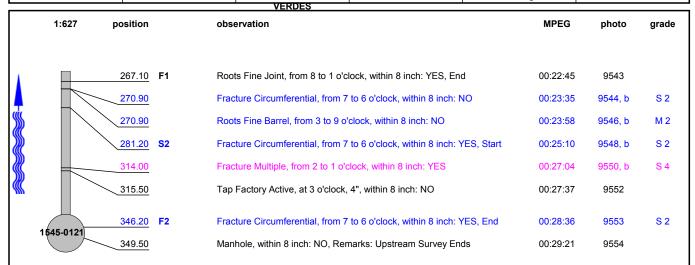
Drain. Area: 0121/1545-0646/1491 Lining Method: Category:

	1:627	position	observation	MPEG	photo	grade
	1491-0646	0.00	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM SURVEY BEGINS	00:00:43	9507	
		0.00	Water Level, 5 %, within 8 inch: NO	00:01:14	9508	M 2
		30.80	Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO	00:02:15	9509	
		34.80	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO	00:02:46	9510	
		108.60	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:04:44	9511	
		158.70	Joint Offset Large, within 8 inch: YES	00:06:24	9512, b	S 2
		160.40	Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO	00:08:18	9514	
		160.40	Roots Medium Lateral, from 2 to 5 o'clock, 20 %, within 8 inch: NO	00:08:45	9515, b	M 3
I		161.20	Joint Offset Large, within 8 inch: YES	00:10:08	9517, b	S 2
<u>"</u>	H	177.50	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO	00:11:08	9519	
 		183.20	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:12:18	9520, b	
 		183.20	Crack Circumferential, from 12 to 9 o'clock, within 8 inch: YES	00:12:58	9522, b	S 1
		193.50	Crack Multiple, from 7 to 1 o'clock, within 8 inch: YES	00:14:25	9524, b	S 3
		193.50	Roots Fine Joint, from 7 to 1 o'clock, within 8 inch: YES	00:14:46	9526, b	
		208.90 S1	Roots Fine Joint, from 8 to 1 o'clock, within 8 inch: YES, Start	00:15:52	9528, b	
		223.80	Fracture Multiple, from 6 to 1 o'clock, within 8 inch: YES	00:16:59	9530, b	S 4
		229.20	Broken, from 7 to 5 o'clock, within 8 inch: YES	00:18:05	9532, b	S 5
	\mathbb{H}'	229.20	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:18:31	9534, b	S 4
		229.20	Deformed, 15 %, within 8 inch: NO	00:18:54	9536, b	S 5
		243.10	Crack Multiple, from 7 to 6 o'clock, within 8 inch: NO	00:20:38	9538, b	S 3
		246.50	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:21:25	9540	
		246.50	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:21:44	9541, b	M 1



Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:
08/01/2007	YOTV0607D	Dry	Gilbert Contreras	936	79624
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 08/01/2007	Pre-Cleaned:	Map Grid #:
344.00	LACDPW	RANCHO PALOS		Jetting	1545





Inspection report

Date: 06/25/2007	P.O.#:	Weather:	Surveyed By:	section number:	PSR:
	YOTV0607D	Dry	Martin Garcia	1197	75839
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date:	Pre-Cleaned:	Map Grid #:
193.00	LACDPW	Rancho Palos Verde	06/15/2007	Jetting	

Street:	EASEMENT	Flow Control:	Not Controlled	Start MH:	1545-0580
City:	RPV	Year Renewed		End MH:	1545-0573
Location Code	e: Easement/Right of Way	Tape/Media #:	M313-019	pipe length:	200.9 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area:

Lining Method:
Category:

1:500	position	observati	on			MPEG	photo	grade
1545-0580	6.00		within 8 inch: NO, Re vel, 15 %, within 8 incl		/I MH 1545-0580-SUR	00:00:38 00:02:26	12508 12509	M 2
	91.70 109.80 136.90 139.80	Alignment Roots Fine	vel, 10 %, within 8 incl Down, within 8 inch: e Joint, at 3 o'clock, w Circumferential, from 9	NO vithin 8 inch: YES	n 8 inch: YES	00:05:04 00:05:40 00:06:29 00:07:46	12510 12511 12512 12513	M 2 M 1
	140.60 167.40	Roots Med	dium Joint, from 7 to scumferential, from 12	5 o'clock, 20 %, wit	hin 8 inch: YES	00:08:21 00:10:26	12514 12515	S 1
	172.50 177.50		om 7 to 5 o'clock, with		n 8 inch: YES	00:11:41 00:12:36	12516, b 12517	S 5 S 2
	177.50 187.90		e Joint, from 1 to 8 o'd			00:13:01 00:14:02	12518 12519, b	S 5
	193.00 197.60		cumferential, from 7 to e Joint, from 2 to 4 o'c			00:15:26 00:15:59	12520 12521	S 1
197.60 197.60 200.90 Fracture Circumferential, from 4 to 9 o'clock, within 8 inch: YES Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH 1545-0573-S							12522 12523	S 2
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
 5223	2211	18	5	23	2.57	1.67		2.3



Increation report

YOTV0607D 1788 N. Neville St Orange, Ca 92865 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 07/26/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 1470	PSR: 77034					
Total Pipe Length: 208.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/25/2007	Pre-Cleaned: Jetting	Map Grid #: 1544					
	VERDES									

Street: MESABA DR **Not Controlled** Start MH: 1544-0384 Flow Control: City: RPV Year Renewed End MH: 1544-0385 Location Code: Light Highway Tape/Media #: A315-003 pipe length: 200.3 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

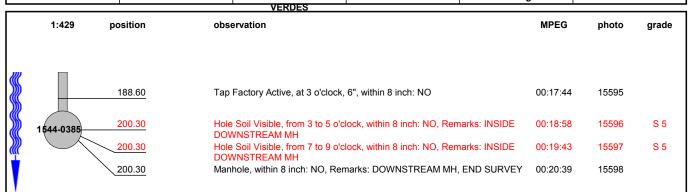
Drain. Area: 0384/1544-0385/1544 Category:

	1:429	position	observation	MPEG	photo	grade
		0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH, BEGIN SURVEY	00:00:28	15572	
	1544-0384	4.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:38	15573	
		6.00	Water Level, within 8 inch: NO	00:02:59	15574	M 2
		6.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:08	15575	
	 	6.80	Roots Ball Lateral, at 3 o'clock, 95 %, within 8 inch: NO	00:04:36	15576	M 4
		8.60	Roots Fine Joint, from 8 to 3 o'clock, within 8 inch: YES	00:05:13	15577	
		9.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:34	15578	
		10.90	Roots Fine Joint, from 9 to 4 o'clock, within 8 inch: YES	00:06:06	15579	
ענע		14.70	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:06:52	15580	
>>		18.10	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:07:16	15581	
		22.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:45	15582	
《	H '	22.50	Roots Medium Lateral, at 9 o'clock, 30 %, within 8 inch: NO	00:08:15	15583	М 3
		24.10	Roots Fine Joint, from 8 to 1 o'clock, within 8 inch: YES	00:08:37	15584	
		55.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:49	15585	
		82.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:46	15586	
		111.00	Fracture Circumferential, from 8 to 1 o'clock, within 8 inch: YES	00:12:03	15587	S 2
		111.00	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	00:12:30	15588	S 1
	H //	117.70	Crack Circumferential, from 1 to 4 o'clock, within 8 inch: YES	00:13:28	15589	S 1
		117.70	Crack Circumferential, from 8 to 1 o'clock, within 8 inch: YES	00:13:50	15590	S 1
		122.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:14:13	15591	
	\mathbb{H}	133.80	Fracture Circumferential, from 5 to 6 o'clock, within 8 inch: YES	00:15:01	15592	S 2
		133.80	Crack Longitudinal, at 5 o'clock, within 8 inch: YES	00:15:26	15593	S 2
		158.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:16:38	15594	



Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:
07/26/2007	YOTV0607D	Dry	Anthony Hernandez	1470	77034
Total Pipe Length: 208.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/25/2007	Pre-Cleaned: Jetting	Map Grid #: 1544





Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:					
06/04/2007	YOTV0607D	Dry	Gilbert Contreras	377	80585					
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 06/01/2007	Pre-Cleaned:	Map Grid #:					
183.00	LACDPW	RANCHO PALOS		Jetting	1490					
	VERDES									

Street: MAYCROFT DR Flow Control: Not Controlled Start MH: 1490-0233

City: RANCHO PALOS VERDES Year Renewed End MH: 1490-0232

Location Code: Light Highway Tape/Media #: G312-012 pipe length: 240.7 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0233/1490-0232/1490 Category:

	1:600	position	observatio	on			MPEG	photo	grade
	1490-0233	0.00	Manhole, w	vithin 8 inch: NO, Ren	narks: Upstream Sur	vey Begins	00:00:44	3316	
		1.00	Roots Fine	Joint, from 3 to 5 o'cl	ock, within 8 inch: YE	≣S	00:01:55	3317	
		5.00	Water Leve	el, 5 %, within 8 inch:	NO		00:02:31	3318	M 2
		6.60	Roots Fine	Joint, from 2 to 5 o'cl	ock, within 8 inch: YE	ES	00:02:49	3319	
		32.10 S1	Roots Fine	Joint, from 7 to 5 o'cl	lock, within 8 inch: YE	ES, Start	00:4:10	3320	
		62.80	Roots Tap	Lateral, from 6 to 1 o	clock, 15 %, within 8	inch: NO	00:05:38	3321	M 2
	82.90 84.20 84.20 147.90		Roots Tap	Joint, from 7 to 1 o'cle	ock, 20 %, within 8 in	ch: YES	00:07:18	3322	
(((Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NO		00:8:10	3323	
 			Roots Tap	Lateral, from 8 to 9 o	clock, 15 %, within 8	inch: NO	00:08:41	3324	M 2
 			Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NO		00:11:16	3325	
		147.90	Roots Tap	Lateral, from 8 to 1 o	clock, 15 %, within 8	inch: NO	00:11:51	3326	M 2
ı,	165.40	Tap Factor	y Active, at 3 o'clock,	6", within 8 inch: NO		00:13:23	3327		
١,		165.40	Roots Fine	Lateral, at 3 o'clock,	within 8 inch: NO		00:13:43	3328	M 1
		219.00	Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NO		00:15:45	3329	
		219.00	Roots Fine	Lateral, at 9 o'clock,	within 8 inch: NO		00:16:10	3330	M 1
		219.00	Hole Void \	/isible, at 9 o'clock, w	rithin 8 inch: NO, Rer	narks: inside lateral	00:16:54	3331	S 5
		231.80	Tap Factor	y Active, at 3 o'clock,	6", within 8 inch: NO		00:18:31	3332	
		231.80	Roots Fine	Lateral, at 3 o'clock,	within 8 inch: NO		00:18:57	3333	M 1
		238.10 F1	Roots Fine	Joint, from 7 to 5 o'cl	ock, within 8 inch: YE	ES, End	00:19:57	3334	
		240.20	Hole Void \	/isible, from 4 to 8 o'd	clock, within 8 inch: N	10	00:20:39	3335	S 5
	1490-0232	240.70	Roots Fine channel of	Barrel, from 3 to 9 o'	clock, within 8 inch: N	NO, Remarks: inside	00:21:32	3336	M 2
		240.70		vithin 8 inch: NO, Ren	narks: Downstream S	Survey Ends	00:22:06	3337	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
	5200	2513	10	13 WinCanExport	23	5	1.63		2.3



Inspection report

Date: 06/13/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 513	PSR: 79563					
Total Pipe Length: 345.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06/12/2007	Pre-Cleaned: Jetting	Map Grid #: 1491					
	VERDES									

Street: LARKVALE DR **Not Controlled** Start MH: 1491-0687 Flow Control: City: RPV Year Renewed End MH: 1491-0686 Location Code: Light Highway Tape/Media #: G312-019 pipe length: 330.4 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

	1:825	position	observatio	n			MPEG	photo	grade
	1491-0687	0.00	Manhole, w	rithin 8 inch: NO, Rer	narks: Upstream Sur	vey Begins	00:00:39	5050	
		5.00	Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NO		00:01:28	5051	
		5.00 S2	Roots Fine	Lateral, at 9 o'clock,	within 8 inch: NO, St	art	00:01:50	5052	M 1
		5.00	Water Leve	el, 10 %, within 8 inch	: NO		00:02:18	5053	M 2
		6.60 S1	Roots Fine	Joint, from 7 to 5 o'c	lock, within 8 inch: YI	ES, Start	00:02:49	5054	
		45.00	Tap Factor	y Active, at 3 o'clock,	6", within 8 inch: NO		00:04:22	5055	
	71.90 F1		Roots Fine	Joint, from 7 to 5 o'c	lock, within 8 inch: Yl	ES, End	00:05:48	5056	
uu		73.00	Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NO		00:06:20	5057	
		73.00	Roots Tap	Lateral, at 9 o'clock,	15 %, within 8 inch: N	10	00:06:41	5058	M 2
《	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ 79.90 S3	Roots Fine	Joint, from 2 to 5 o'c	lock, within 8 inch: YI	ES, Start	00:07:28	5059	
S		111.30	Tap Factor	y Active, at 3 o'clock,	6", within 8 inch: NO		00:08:37	5060	
Ť	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO						00:10:02	5061	
١	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO						00:11:08	5062	
		215.30	Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NO		00:12:12	5063	
		253.20	Tap Factor	y Active, at 3 o'clock,	6", within 8 inch: NO		00:13:47	5064	
		271.20	Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NO		00:14:47	5065	
		271.20	Roots Fine	Lateral, within 8 inch	: NO		00:15:08	5066	M 1
		271.20 F2	Roots Fine	Lateral, at 9 o'clock,	within 8 inch: NO, Er	nd	00:20:07	5067	M 1
		328.00 F3	Roots Fine	Joint, from 2 to 5 o'c	lock, within 8 inch: YI	ES, End	00:17:01	5068	
		330.10	Hole Void \	/isible, from 3 to 5 o'd	clock, within 8 inch: N	10	00:17:43	5069	S 5
	1491-0686	330.10	Hole Soil V	isible, from 7 to 9 o'c	lock, within 8 inch: N	0	00:18:07	5070	S 5
	1491-0000	330.40	Manhole, w	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends			00:19:14	5071	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
	5200	2213	10	7	17	5	1.4		2.43



Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:
07/26/2007	YOTV0607D	Dry	Anthony Hernandez	1473	77404
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 07/25/2007	Pre-Cleaned:	Map Grid #:
180.00	LACDPW	RANCHO PALOS		Jetting	1544
		VERDES			

Street: ALVAREZ DR Start MH: 1544-0103 Flow Control: **Not Controlled** City: RPV Year Renewed End MH: 1544-0104 Location Code: Light Highway Tape/Media #: A315-003 pipe length: 101.7 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

	1:250	position	observatio	on			MPEG	photo	grade
	1544-0103	0.00	Manhole, w	vithin 8 inch: NO, Ren	narks: UPSTREAM N	//H, BEGIN SURVEY	00:00:27	15616	
		3.00	Roots Fine	Joint, at 10 o'clock, v	vithin 8 inch: YES		00:01:54	15617	
		5.00	Roots Fine	Joint, from 7 to 5 o'cl	ock, within 8 inch: Y	ES	00:02:28	15618	
		6.00	Water Leve	el, 5 %, within 8 inch:	NO		00:04:08	15619	M 2
		9.00	Roots Fine	Joint, from 11 to 1 o'	clock, within 8 inch: '	YES	00:04:36	15620	
		13.90	Roots Fine	Joint, from 6 to 1 o'cl	ock, within 8 inch: Y	ES	00:05:01	15621	
		19.30	Roots Fine	Joint, from 7 to 2 o'cl	ock, within 8 inch: Y	ES	00:05:24	15622	
,,,,		24.10	Roots Fine	Joint, from 9 to 2 o'cl	ock, within 8 inch: Y	ES	00:05:49	15623	
\$		25.10	Tap Factor	y Active, at 3 o'clock,	6", within 8 inch: NC)	00:06:13	15624	
		26.50	Roots Fine	Joint, from 10 to 2 o'	clock, within 8 inch: \	YES	00:06:34	15625	
		51.70	Roots Fine	Joint, from 9 to 3 o'cl	ock, within 8 inch: Y	ES	00:07:31	15626	
۲		52.90	Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NC)	00:07:55	15627	
١		52.90	Roots Ball	Lateral, at 9 o'clock, 9	95 %, within 8 inch: N	10	00:08:17	15628	M 4
		96.10	Tap Factor	y Active, at 3 o'clock,	6", within 8 inch: NC	1	00:09:54	15629	
		101.60		isible, from 4 to 5 o'cl	ock, within 8 inch: N	O, Remarks: INSIDE	00:10:47	15630	S 5
		101.60		isible, from 7 to 8 o'cl	ock, within 8 inch: N	O, Remarks: INSIDE	00:11:24	15631	S 5
	1544-0104	101.70	DOWNSTF Manhole, w	REAM MH vithin 8 inch: NO, Ren	narks: DOWNSTREA	AM MH BURIED, END	00:12:25	15632	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
İ	5200	4121	10	6	16	5	3		4



Inspection report

Date: 07/25/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 873	PSR: 76284
Total Pipe Length: 98.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/24/2007	Pre-Cleaned: Jetting	Map Grid #: 1545
		VERDES			

 Street:
 0
 Flow Control:
 Not Controlled
 Start MH:
 1545-0682

 City:
 RPV
 Year Renewed
 End MH:
 1545-0147

 Location Code: Easement/Right of Way
 Tape/Media #:
 G312-044
 pipe length:
 16.8 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0682/1545-0147/1545 Category:

5.00 Water Level, 5 %, within 8 inch: NO 00:04:05 8583 M 5.30 Crack Longitudinal, at 9 o'clock, within 8 inch: YES 00:05:00 8584, b \$ 5.30 S1 Roots Tap Joint, from 2 to 5 o'clock, 15 %, within 8 inch: YES, Start 00:05:25 8586, b 12.80 S2 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start 00:06:42 8588, b \$ 15.50 Broken, from 3 to 7 o'clock, within 8 inch: YES 00:08:04 8590, b \$ 16.70 F1 Roots Tap Joint, from 2 to 5 o'clock, 15 %, within 8 inch: YES, End 00:10:17 8592		1:50	position	observatio	n			MPEG	photo	grade
5.00 Water Level, 5 %, within 8 inch: NO 0:004:05 8583 M 5.30 Crack Longitudinal, at 9 o'clock, within 8 inch: YES 0:05:00 8584, b S 5.30 S1 Roots Tap Joint, from 2 to 5 o'clock, 15 %, within 8 inch: YES, Start 0:005:25 8586, b 12.80 S2 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start 0:006:42 8588, b S 15.50 Broken, from 3 to 7 o'clock, within 8 inch: YES 16.70 F1 Roots Tap Joint, from 2 to 5 o'clock, 15 %, within 8 inch: YES, End 0:10:17 8592 16.70 F2 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End 0:10:17 8593 S Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by broken 0:009:43 8594		1545-0682	0.00	Manhole, w	ithin 8 inch: NO, Rei	marks: Upstream Sur	vey Begins	00:00:41	8580	
5.30 S1 Roots Tap Joint, from 2 to 5 o'clock, within 8 inch: YES, Start 00:05:25 8586, b 12.80 S2 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start 00:06:42 8588, b 15.50 Broken, from 3 to 7 o'clock, within 8 inch: YES 16.70 F1 Roots Tap Joint, from 2 to 5 o'clock, 15 %, within 8 inch: YES, End 00:10:17 8592 16.70 F2 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End 00:10:40 8593 S Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by broken 00:09:43 8594		\blacksquare	2.00	Crack Multi	ple, from 8 to 4 o'clo	ck, within 8 inch: YES	S	00:02:55	8581, b	S 3
5.30 S1 Roots Tap Joint, from 2 to 5 o'clock, 15 %, within 8 inch: YES, Start 00:05:25 8586, b 12.80 S2 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start 00:06:42 8588, b S 15.50 Broken, from 3 to 7 o'clock, within 8 inch: YES 00:08:04 8590, b S 16.70 F1 Roots Tap Joint, from 2 to 5 o'clock, 15 %, within 8 inch: YES, End 00:10:17 8592 16.70 F2 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End 00:10:40 8593 S 16.80 Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by broken 00:09:43 8594	7		5.00	Water Leve	I, 5 %, within 8 inch:	NO		00:04:05	8583	M 2
12.80 S2 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start 00:06:42 8588, b S 15.50 Broken, from 3 to 7 o'clock, within 8 inch: YES 00:08:04 8590, b S 16.70 F1 Roots Tap Joint, from 2 to 5 o'clock, 15 %, within 8 inch: YES, End 00:10:17 8592 16.70 F2 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End 00:10:40 8593 S 16.80 Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by broken 00:09:43 8594			5.30	Crack Long	itudinal, at 9 o'clock	, within 8 inch: YES		00:05:00	8584, b	S 2
15.50 Broken, from 3 to 7 o'clock, within 8 inch: YES 00:08:04 8590, b 8 16.70 F1 Roots Tap Joint, from 2 to 5 o'clock, 15 %, within 8 inch: YES, End 00:10:17 8592 16.70 F2 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End 00:10:40 8593 8 16.80 Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by broken 00:09:43 8594										
16.70 F1 Roots Tap Joint, from 2 to 5 o'clock, 15 %, within 8 inch: YES, End 00:10:17 8592 16.70 F2 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End 00:10:40 8593 8 16.80 Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by broken 00:09:43 8594			12.80 S2	Fracture Mi	ultiple, from 7 to 5 o'	clock, within 8 inch: Y	ES, Start	00:06:42	8588, b	S 4
16.70 F2 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End 00:10:40 8593 8 16.80 Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by broken 00:09:43 8594			15.50	Broken, fro	m 3 to 7 o'clock, with	nin 8 inch: YES		00:08:04	8590, b	S 5
16.80 Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by broken 00:09:43 8594			16.70 F1	Roots Tap	Joint, from 2 to 5 o'c	lock, 15 %, within 8 in	nch: YES, End	00:10:17	8592	
			16.70 F2	Fracture M	ultiple, from 7 to 5 o'	clock, within 8 inch: Y	ES, End	00:10:40	8593	S 4
QSR QMR SPR MPR OPR SPRI MPRI OPRI			16.80	Abandoned	Survey, within 8 inc	h: NO, Remarks: cam	eera blocked by broker	n 00:09:43	8594	
5142 2100 18 2 20 3.6 2 3.33										



YOTV0607D 1788 N. Neville St Orange, Ca 92865

Orange, Ca 92865 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

		<u>-</u>	<u> </u>		
Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:
07/25/2007	YOTV0607D	Dry	Gilbert Contreras	874	76284
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date:	Pre-Cleaned:	Map Grid #:
98.00	LACDPW	RANCHO PALOS	07/24/2007	Jetting	1545
		VERDES			

 Street:
 0
 Flow Control:
 Not Controlled
 Start MH:
 1545-0147

 City:
 RPV
 Year Renewed
 End MH:
 1545-0682

 Location Code: Easement/Right of Way
 Tape/Media #:
 G312-044
 pipe length:
 28.4 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0682/1545-0147/1545 Lining Method: Category:

Manhole, within 8 inch: NO, Remarks: Downstream Survey Begins 00:00:42 8595 Alignment Up, 35 %, within 8 inch: NO 00:02:32 8596, b 4.00 Fracture Longitudinal, at 9 o'clock, within 8 inch: YES 00:03:05 8598, b 5.00 Water Level, 5 %, within 8 inch: NO 00:03:39 8600 21.10 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:05:02 8601, b 24.70 Fracture Longitudinal, at 2 o'clock, within 8 inch: YES 00:06:03 8603, b 24.70 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:06:31 8605, b 27.70 Roots Ball Joint, from 7 to 5 o'clock, 55 %, within 8 inch: YES 00:08:03 8607, b 28.40 Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by ball ro 00:09:09 8609	grade	photo	MPEG			n	observatio	position	1:75
Alignment Up, 35 %, within 8 inch: NO 4.00 Fracture Longitudinal, at 9 o'clock, within 8 inch: YES 5.00 Water Level, 5 %, within 8 inch: NO 00:03:39 8600 21.10 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:05:02 8601, b 24.70 Fracture Longitudinal, at 2 o'clock, within 8 inch: YES 00:06:03 8603, b 24.70 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:06:31 8605, b 27.70 Roots Ball Joint, from 7 to 5 o'clock, 55 %, within 8 inch: YES 00:08:03 8607, b		8595	00:00:42	Survey Begins	narks: Downstream S	rithin 8 inch: NO, Rer	Manhole, w	0.00	1545-0147
21.10 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:05:02 8601, b 24.70 Fracture Longitudinal, at 2 o'clock, within 8 inch: YES 00:06:03 8603, b 24.70 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:06:31 8605, b 27.70 Roots Ball Joint, from 7 to 5 o'clock, 55 %, within 8 inch: YES 00:08:03 8607, b	M 4	8596, b	00:02:32		ch: NO	Jp, 35 %, within 8 inc	Alignment l	1.00	
21.10 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:05:02 8601, b 24.70 Fracture Longitudinal, at 2 o'clock, within 8 inch: YES 00:06:03 8603, b 24.70 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:06:31 8605, b 27.70 Roots Ball Joint, from 7 to 5 o'clock, 55 %, within 8 inch: YES 00:08:03 8607, b	S 3	8598, b	00:03:05	;	ck, within 8 inch: YES	ngitudinal, at 9 o'clo	Fracture Lo	4.00	
24.70 Fracture Longitudinal, at 2 o'clock, within 8 inch: YES 00:06:03 8603, b 24.70 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:06:31 8605, b 27.70 Roots Ball Joint, from 7 to 5 o'clock, 55 %, within 8 inch: YES 00:08:03 8607, b									
24.70 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES 00:06:31 8605, b 27.70 Roots Ball Joint, from 7 to 5 o'clock, 55 %, within 8 inch: YES 00:08:03 8607, b		8601, b	00:05:02	ES	lock, within 8 inch: Yl	Joint, from 7 to 5 o'c	Roots Fine	21.10	
27.70 Roots Ball Joint, from 7 to 5 o'clock, 55 %, within 8 inch: YES 00:08:03 8607, b	S 3								
<u> </u>									
- 28.40 Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by ball ro 00:09:09 8609									
		8609	00:09:09	nera blocked by ball ro	h: NO, Remarks: can	l Survey, within 8 inc	Abandoned	28.40	
QSR QMR SPR MPR OPR SPRI MPRI	OPRI		MPRI	SPRI	OPR	MPR	SPR	QMR	QSR



Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:
06/01/2007	YOTV0607D	Dry	Gilbert Contreras	366	80673
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 05/31/2007	Pre-Cleaned:	Map Grid #:
147.00	LACDPW	RANCHO PALOS		Jetting	1490
		VERDES			

Street: **GOLDEN MEADOW DR** Start MH: 1490-0212 Flow Control: **Not Controlled** City: **RANCHO PALOS VERDES** Year Renewed End MH: 1490-0211 Location Code: Light Highway Tape/Media #: G312-011 pipe length: 169.3 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

	1:425	position	observatio	n			MPEG	photo	grade
	1490-0212	0.00 0.00 4.90 6.10 \$1	Water Leve Roots Fine	el, 10 %, within 8 inch Joint, from 2 to 4 o'c	narks: Upstream Sun : NO lock, within 8 inch: Yt lock, within 8 inch: Yt	≣S	00:00:43 00:01:07 00:01:38 00:02:37	3169 3170 3171 3172	M 2
		52.60 52.60			6", within 8 inch: NO 15 %, within 8 inch: N		00:04:14 00:04:40	3173 3174	M 2
		105.70 105.70 116.70 F1	Roots Tap	Lateral, from 3 to 4 o	6", within 8 inch: NO 'clock, 15 %, within 8 lock, within 8 inch: YE	inch: NO	00:06:29 00:06:54 00:07:52	3175 3176 3177	M 2
	1490-0211	167.80 167.80 168.80 169.30	Fracture Monday Hole Void Notes Channel of	ultiple, from 3 to 5 o'd /isible, from 6 to 8 o'd MH	lock, within 8 inch: YE clock, within 8 inch: Y clock, within 8 inch: N narks: Downstream S	ES IO, Remarks: Inside	00:09:43 00:10:18 00:11:16 00:12:19	3178 3179 3180 3181	S 4 S 5
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
i	5141	2300	9	6	15	4.5	2		3



Inspection report

Date: 06/11/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 485	PSR: 79557
Total Pipe Length: 242.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06/08/2007	Pre-Cleaned: Jetting	Map Grid #: 1491
		VERDES			

Street: HARTCREST DR Start MH: 1491-0693 Flow Control: **Not Controlled** City: RANCHO PALOS VERDES Year Renewed End MH: 1491-0681 Location Code: Light Highway Tape/Media #: G312-017 pipe length: 262.8 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0693/1491-0681/1491 Category:

	1:650	position	observatio	on			MPEG	photo	grade
	1491-0693	0.00	Manhole, w	vithin 8 inch: NO, Re	marks: Upstream Sur	vey Begins	00:00:38	4642	
		0.00	Water Leve	el, 10 %, within 8 incl	n: NO		00:00:59	4643	M 2
		18.50	Tap Factor	y Active, at 9 o'clock	, 6", within 8 inch: NC)	00:01:40	4644	
		18.50	Roots Fine	Lateral, at 9 o'clock	within 8 inch: NO		00:02:00	4645	M 1
		40.20	Roots Fine	Joint, from 12 to 5 o	'clock, within 8 inch: '	YES	00:3:10	4646	
		61.50	Tap Factor	y Active, at 3 o'clock	, 6", within 8 inch: NC)	00:04:15	4647	
		79.20	Tap Factor	y Active, at 9 o'clock	, 6", within 8 inch: NC)	00:05:03	4648	
///		79.20	Roots Fine	Lateral, at 9 o'clock	within 8 inch: NO		00:05:23	4649	M 1
		95.80	Roots Fine	Joint, from 7 to 1 o'd	clock, within 8 inch: Y	ES	00:06:27	4650	
		146.10	Deposits In Remarks: s		5 to 6 o'clock, 10 %, v	vithin 8 inch: YES,	00:08:47	4651	M 2
ľ		162.40	Broken, fro	m 7 to 1 o'clock, with	nin 8 inch: YES		00:10:02	4652, b	S 5
		162.40	Fracture M	ultiple, from 7 to 1 o'	clock, within 8 inch: Y	ES	00:10:37	4653	S 4
		162.40	Roots Fine	Barrel, from 7 to 1 o	'clock, within 8 inch:	NO	00:11:01	4654	M 2
		162.40	Tap Factor	y Active, at 3 o'clock	, 6", within 8 inch: NC)	00:11:43	4655	
		170.20	Tap Factor	y Active, at 9 o'clock	, 6", within 8 inch: NC)	00:12:13	4656	
	1491-0681	260.50			to 6 o'clock, within 8		00:14:45	4657	S 2
		262.80	Manhole, w	vithin 8 inch: NO, Re	marks: Downstream S	Survey Ends	00:15:43	4658	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
	5141	2312	11	8	19	3.67	1.6		2.38



Inspection report

		<u> </u>	<u> </u>		
Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:
07/27/2007	YOTV0607D	Dry	Gilbert Contreras	894	77412
Total Pipe Length: 268.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/27/2007	Pre-Cleaned: Jetting	Map Grid #: 1544
		VERDES			

 Street:
 0
 Flow Control:
 Not Controlled
 Start MH:
 1544-0111

 City:
 RPV
 Year Renewed
 End MH:
 1544-0112

 Location Code: Easement/Right of Way
 Tape/Media #:
 G312-045
 pipe length:
 268.8 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

1:675	position	observatio	n			MPEG	photo	grade
1544-0111	0.00		rithin 8 inch: NO, Rer	narks: Upstream Sur n: NO	vey Begins	00:00:38 00:01:21	8864 8865	M 2
	35.90 35.90 35.90 42.20	Hole Void \ Fracture Ci	rcumferential, from 1	hin 8 inch: YES clock, within 8 inch: Y 2 to 2 o'clock, within 6", within 8 inch: NO	8 inch: YES	00:02:39 00:02:59 00:03:21 00:04:20	8866, b 8868, b 8870, b 8872	S 4 S 5 S 2
	185.50 189.00		Medium, within 8 inc			00:07:43 00:08:19	8873, b 8875, b	S1 S1
1544-0112	268.80	Manhole, w	ithin 8 inch: NO, Rer	narks: Downstream S	Survey Ends	00:10:50	8877	



Inspection report

			<u>-</u>		
Date:			Surveyed By:	section number:	PSR:
06/25/2007	YOTV0607D	Dry	Martin Garcia	1204	77371
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date:	Pre-Cleaned:	Map Grid #:
72.00	LACDPW	Rancho Palos Verde	06/15/2007	Jetting	

ĺ	Street:	EASEMENT	Flow Control:	Not Controlled	Start MH:	1544-0070
l	City:	RPV	Year Renewed		End MH:	1544-1012
l	Location Code	e: Easement/Right of Way	Tape/Media #:	M313-019	pipe length:	40.7 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area:

Lining Method:
Category:

	1:100	position	observatio	n			MPEG	photo	grade
		·						·	-
	1544-0070	0.00	Manhole, w	vithin 8 inch: NO, Rer	narks: DOWNSTREA	MM MH 1544-0070-S	00:00:40	12587	
		4.00	Fracture Ci	rcumferential, from 7	to 5 o'clock, within 8	inch: YES	00:01:39	12588	S 2
		8.00	Broken, fro	m 10 to 2 o'clock, wit	hin 8 inch: YES		00:03:19	12589	S 5
		16.80	Water Leve	el, 5 %, within 8 inch:	NO		00:04:21	12590	M 2
		00.70					00.07.40	40504	
		38.70		rcumferential, from 9			00:05:48	12591	S 2
		38.70		Joint, from 3 to 9 o'c		ES ABLE TO CONTINUE	00:06:12	12592 12593	
		70.70	DUE TO	i Garvey, within 6 file	i. 140, Remains. UN	ISEE TO SOMITINUE	_ 00.00.40	12030	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	<u> </u>	OPRI
—	5122	2100	9	2	11	3	2		2.75



YOTV0607D 1788 N. Neville St

Inspection report

			<u>-</u>		
Date: 06/25/2007	Date: P.O.#: 9.07V0607D		Surveyed By: Martin Garcia	section number: 1203	PSR: 77371
00/20/2001	101100075	Dry	Martin Garcia	1200	77071
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date:	Pre-Cleaned:	Map Grid #:
72.00	LACDPW	Rancho Palos Verde	06/15/2007	Jetting	

Street: **EASEMENT** Flow Control: **Not Controlled** Start MH: 1544-1012 City: RPV Year Renewed End MH: 1544-0070 Location Code: Easement/Right of Way Tape/Media #: M313-019 pipe length: 11.2 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area:

Lining Method:
Category:

	1:50	position	observation	MPEG	photo	grade
	1544-1012	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH 1544-1012-SUR	00:00:28	12582	
		6.00	Roots Medium Joint, from 11 to 7 o'clock, 10 %, within 8 inch: YES	00:01:37	12583	
۱		8.00	Roots Ball Joint, from 7 to 5 o'clock, 90 %, within 8 inch: YES	00:02:53	12584	
		10.40	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:03:51	12585	
		11.20	Abandoned Survey, within 8 inch: NO, Remarks: UNABLE TO GET BY ROOTS	00:06:37	12586	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0	0	0	0	0	0



Inspection report

Date: P.O.#:		Weather:	Surveyed By:	section number:	PSR:
06/25/2007 YOTV0607D		Dry	Martin Garcia	1200	75841
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date:	Pre-Cleaned:	Map Grid #:
323.00	LACDPW	Rancho Palos Verde	06/15/2007	Jetting	

Street: RIDGETHORNE CT Flow Control: **Not Controlled** Start MH: 1545-0575 City: RPV Year Renewed End MH: 1545-0576 Location Code: Light Highway Tape/Media #: M313-019 pipe length: 199.8 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area:

Lining Method:
Category:

	1:500	position	observatio	on			MPEG	photo	grade
	1545-0575	0.00	Manhole, w	vithin 8 inch: NO, Rer	narks: UPSTREAM N	/IH 1545-0575-SUR	00:00:31	12542	
		6.00	Water Leve	el, 15 %, within 8 inch	: NO		00:01:25	12543	M 2
		9.70	Tap Factor	y Active, at 3 o'clock,	4", within 8 inch: NO		00:02:14	12544	
		9.70	Roots Medi	ium Lateral, at 3 o'clo	ock, 25 %, within 8 in	ch: NO	00:02:37	12545	М 3
	\	12.30	Water Leve	el, 15 %, within 8 inch	ı: NO		00:02:56	12546	M 2
	15.50 Roots Fine Barrel, from 11 to 1 o'clock, within 8 inch: NO					NO	00:03:18	12547	M 2
	40.70 Water Level, 20 %, within 8 inch: NO					00:4:10	12548	M 2	
w		54.10	Tap Factor	y Active, at 3 o'clock,	4", within 8 inch: NO		00:04:43	12549	
		69.10	Water Leve	el, 10 %, within 8 inch	ı: NO		00:05:20	12550	M 2
《		76.80	Tap Factor	y Active, at 3 o'clock,	4", within 8 inch: NO		00:05:45	12551	
\$		84.30	Deposits At	ttached Grease, from	10 to 2 o'clock, 5 %	within 8 inch: NO	00:06:18	12552	M 2
Ť		92.50	Deposits At	ttached Grease, from	10 to 2 o'clock, 5 %	within 8 inch: NO	00:06:57	12553	M 2
١		99.10	Fracture Ci	rcumferential, from 7	to 9 o'clock, within 8	inch: YES	00:07:29	12554	S 2
		99.10	Roots Fine	Roots Fine Joint, at 9 o'clock, within 8 inch: YES					
		105.30	Tap Factor	y Active, at 3 o'clock,	4", within 8 inch: NO		00:08:30	12556	
		130.10	Water Leve	el, 20 %, within 8 inch	ı: NO		00:09:22	12557	M 2
		148.80	Tap Factor	y Active, at 12 o'clocl	x, 4", within 8 inch: N	0	00:10:07	12558	
		172.60	Broken Soi	l Visible, from 7 to 1	o'clock, within 8 inch:	NO	00:11:35	12559	S 5
	1545-0576	199.80	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH 1545-0576-S					12560	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
	5121	3128	7	19	26	3.5	2.11		2.36



Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:							
07/30/2007	YOTV0607D	Dry	Anthony Hernandez	1502	75605							
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 07/26/2007	Pre-Cleaned:	Map Grid #:							
127.00	LACDPW	RANCHO PALOS		Jetting	1545							
	VERDES											

HIGHRIDGE RD 1545-0799 Street: Flow Control: **Not Controlled** Start MH: City: RPV Year Renewed End MH: 1545-0800 Location Code: Light Highway Tape/Media #: A315-005 pipe length: 159.9 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0800/1545-0799/1545 Category:

	1:400	position	observatio	n			MPEG	photo	grade
	1545-0799	0.00	Manhole, w	vithin 8 inch: NO, Rei	marks: DOWNSTREA	AM MH, BEGIN SURV	00:00:26	16007	
		6.00	Water Leve	el, 5 %, within 8 inch:	NO		00:02:22	16008	M 2
	\perp	23.40	Roots Fine	Joint, from 10 to 1 o	clock, within 8 inch: \	YES	00:03:09	16009	
		45.60	Tap Factory	y Active, at 9 o'clock	, 6", within 8 inch: NO	,	00:04:00	16010	
		79.90	Water Mark	k, 10 %, within 8 inch	n: NO		00:5:10	16011	M 2
1		126.80	Tap Break-	in Active, at 9 o'clocl	k, 6", within 8 inch: No)	00:06:58	16012	
<u> </u>	127.70 128.80 128.80	Tap Break-	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO						
>>>		128.80	Broken Soil	I Visible, from 8 to 1	o'clock, within 8 inch:	NO	00:09:01	16014, b	S 5
		Roots Fine	Roots Fine Barrel, from 9 to 1 o'clock, within 8 inch: NO				16015	M 2	
《		128.80	Crack Long	Crack Longitudinal, at 2 o'clock, within 8 inch: YES					S 2
(((138.80	Roots Fine	Roots Fine Joint, at 10 o'clock, within 8 inch: YES					
		143.90	Roots Fine	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES					
		149.10	Roots Fine	Roots Fine Joint, from 10 to 4 o'clock, within 8 inch: YES				16019	
		150.60	Tap Factory	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO					
		150.60	Roots Medi	ium Lateral, at 3 o'cle	ock, 40 %, within 8 in	ch: NO	00:12:24	16021	М 3
		154.20	Roots Fine	Joint, from 8 to 4 o'c	clock, within 8 inch: Yl	ES	00:13:04	16022	
		156.00	Tap Factory	y Active, at 9 o'clock	, 6", within 8 inch: NO	•	00:13:23	16023	
		156.00	Roots Fine	Lateral, at 9 o'clock,	, within 8 inch: NO		00:13:44	16024	M 1
	1545-0800	156.90	Roots Fine	Roots Fine Joint, at 10 o'clock, within 8 inch: YES					
		159.90	Manhole, w	rithin 8 inch: NO, Rei	marks: UPSTREAM N	MH, END SURVEY	00:14:37	16026	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		PRI
	5121	3123	7	10 WinCanEvnort	17	3.5	2		2.43



Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:							
06/01/2007	YOTV0607D	Dry	Gilbert Contreras	363	80566							
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 05/31/2007	Pre-Cleaned:	Map Grid #:							
49.00	LACDPW	RANCHO PALOS		Jetting	1490							
	VERDES											

Street: **GOLDEN MEADOW DR** Start MH: 1490-0213 Flow Control: **Not Controlled** City: **RANCHO PALOS VERDES** Year Renewed End MH: 1490-0230 Location Code: Light Highway Tape/Media #: G312-011 pipe length: 109 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0230/1490-0213/1490 Category:

1:275	position	observat	tion			MPEG	photo	grade
1490-0213	0.00 1.00 5.00 7.20 \$1	Roots Fir Water Le	within 8 inch: NO, R ne Joint, from 2 to 5 c vel, 10 %, within 8 inc ne Joint, from 7 to 5 c	clock, within 8 inch:	YES	00:00:46 00:01:18 00:02:01 00:02:37	3137 3138 3139 3140	M 2
	64.50 65.20 F1		ory Active, at 9 o'cloc ne Joint, from 7 to 5 c			00:04:26 00:04:45	3141 3142	
1490-0230	108.60	channel o	Visible, from 6 to 8 c of MH within 8 inch: NO, R		NO, Remarks: Inside urvey Ends	00:06:23 00:07:24	3143 3144	S 5
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	<u> </u>	OPRI
 5100	2100	5	2					



Inspection report

Date: 06/01/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 364	PSR: 80583					
Total Pipe Length: 209.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 05/31/2007	Pre-Cleaned: Jetting	Map Grid #: 1490					
VERDES										

Street: MAYCROFT DR Start MH: 1490-0230 Flow Control: **Not Controlled** City: RANCHO PALOS VERDES Year Renewed End MH: 1490-0231 Location Code: Light Highway Tape/Media #: G312-011 pipe length: 209.4 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0231/1490-0230/1490 Category:

	1:525	position	observatio	n			MPEG	photo	grade
	1490-0230	0.00	Manhole, w	vithin 8 inch: NO, Rer	marks: Downstream,	Survey Begins	00:00:47	3145	
		0.00	Water Leve	el, 10 %, within 8 inch	: NO		00:01:07	3146	M 2
		3.90	Tap Factor	y Active, at 3 o'clock,	6", within 8 inch: NC)	00:01:32	3147	
		16.70	Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NC)	00:02:14	3148	
		38.30	Roots Fine	Joint, from 8 to 9 o'c	lock, within 8 inch: Y	ES	00:03:16	3149	
		48.40 S1	Roots Fine	Joint, from 7 to 5 o'c	lock, within 8 inch: Y	ES, Start	00:04:21	3150	
١.		70.20	Tap Factor	y Active, at 3 o'clock,	6", within 8 inch: NC)	00:05:32	3151	
		70.20	Roots Fine	Lateral, at 3 o'clock,	within 8 inch: NO		00:05:53	3152	M 1
		88.20	Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NC)	00:06:56	3153	
《		88.20	Roots Fine	Lateral, at 9 o'clock,	within 8 inch: NO		00:07:16	3154	M 1
		146.50	Tap Factor	y Active, at 3 o'clock,	6", within 8 inch: NC)	00:09:12	3155	
		146.50	Roots Fine	Lateral, at 3 o'clock,	within 8 inch: NO		00:09:37	3156	M 1
	159.10			Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO				3157	
		159.10 Roots Fine Lateral, at 9 o'clock, within 8 inch: NO						3158	M 1
		209.00 F1 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End					00:13:20	3159	
	1490-0231	Hole Void Visible, from 4 to 8 o'clock, within 8 inch: NO, Remarks: Channel of MH					I 00:14:14	3160	S 5
	209.40 Manhole, within 8 inch: NO, Remarks: Upstream Survey Ends						00:14:53	3161	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
	5100	2114	5 FR	6 MPR	11	5 SPRI	1.2		1.83



Inspection report

Date: 06/01/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 367	PSR: 80584					
Total Pipe Length: 283.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 05/31/2007	Pre-Cleaned: Jetting	Map Grid #: 1490					
	VERDES									

Street: MAYCROFT DR Flow Control: Not Controlled Start MH: 1490-0232

City: RANCHO PALOS VERDES Year Renewed End MH: 1490-0231

Location Code: Light Highway Tape/Media #: G312-011 pipe length: 212.1 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0232/1490-0231/1490 Category:

	1:525	position	observatio	on			MPEG	photo	grade
	1490-0232	0.00 0.00 S1 5.00	Roots Fine		marks: Upstream Sur clock, within 8 inch: YI	, ,	00:00:43 00:01:42 00:02:24	3182 3183 3184	M 2
		41.30 52.00	Roots Tap	Joint, from 3 to 9 o'c	lock, 15 %, within 8 in	nch: YES	00:03:47 00:05:56	3185 3186	
(((52.90 52.90		y Active, at 3 o'clock Lateral, at 3 o'clock	, 6", within 8 inch: NO within 8 inch: NO	1	00:06:33 00:06:53	3187 3188	M 1
		60.50		y Active, at 9 o'clock Lateral, at 9 o'clock	, 6", within 8 inch: NO within 8 inch: NO	1	00:07:57 00:08:16	3189 3190	M 1
	76.90 123.90		·		lock, 15 %, within 8 in		00:09:16 00:10:52	3191 3192	
•		123.90	Tap Factor	y Active, at 9 o'clock	15 %, within 8 inch: NO, 6", within 8 inch: NO		00:11:19 00:12:11	3193 3194	M 2
		132.10	Tap Factor		, 6", within 8 inch: NO	ı	00:12:31 00:14:39	3195 3196	M 1
		<u>195.60</u> <u>203.20</u>	Tap Factor		, 6", within 8 inch: NO		00:15:09	3197 3198	M 1
		203.20 209.80 F1	Roots Fine		clock, within 8 inch: Yl		00:16:19	3199	M 1
	1490-0231	212.10			clock, within 8 inch: N		00:17:49 00:18:42	3201 3202	S 5
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
	5100	2215	5	9 WinCanExport.	14 mdb // page: 1	5	1.29		1.75



Inspection report

Date: 06/08/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 467	PSR: 75785					
Total Pipe Length: 391.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06/07/2007	Pre-Cleaned: Jetting	Map Grid #: 1545					
	VERDES									

Street: **EDDINGHILL DR** Start MH: 1545-0635 Flow Control: **Not Controlled** City: RANCHO PALOS VERDES Year Renewed End MH: 1545-0636 Location Code: Light Highway Tape/Media #: G312-016 pipe length: 351.6 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0635/1545-0636/1545 Category:

	1:875	position	observatio	on			MPEG	photo	grade
	1545-0635	0.00	Manhole, w	vithin 8 inch: NO, Ren	narks: Upstream Sur	vey Begins	00:00:48	4411	
		5.00	Water Leve	el, 10 %, within 8 inch	: NO		00:01:35	4412	M 2
		25.50	Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NO	1	00:02:16	4413	
		68.40	Roots Fine	Joint, from 1 to 3 o'cl	lock, within 8 inch: Yl	ES	00:03:34	4414	
		95.20	Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NO	1	00:04:41	4415	
l		95.20	Roots Fine	Lateral, at 9 o'clock,	within 8 inch: NO		00:05:00	4416	M 1
 		106.80	Roots Fine	Joint, at 2 o'clock, wi	thin 8 inch: YES		00:05:46	4417	
>>		137.00	Roots Fine	Joint, from 2 to 5 o'cl	ock, within 8 inch: Yl	ES	00:06:52	4418	
		147.40	Roots Fine	Joint, from 7 to 1 o'cl	ock, within 8 inch: Yl	ES	00:07:42	4419	
4		163.90	Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NO	1	00:08:40	4420	
		163.90	Roots Fine	Lateral, at 9 o'clock,	within 8 inch: NO		00:09:01	4421	M 1
		227.20	Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NC		00:10:59	4422	
		296.20	Tap Factor	y Active, at 9 o'clock,	6", within 8 inch: NC	ı	00:12:44	4423	
		302.80 \$1	Roots Fine	Joint, from 7 to 9 o'cl	ock, within 8 inch: Yl	ES, Start	00:13:14	4424	
		348.40 F1	Roots Fine	Joint, from 7 to 9 o'cl	lock, within 8 inch: Yl	ES, End	00:14:45	4425	
		351.00	Hole Soil V	isible, from 5 to 7 o'cl	ock, within 8 inch: N	0	00:15:24	4426	S 5
	1545-0636 Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends						00:16:12	4427	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
	5100	2112	5	4	9	5	1.33		2.25



Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:
06/01/2007	YOTV0607D	Dry	Martin Garcia	1041	77438
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date:	Pre-Cleaned:	Map Grid #:
273.00	LACDPW	Rancho Palos Verdes	05/29/2007	Jetting	

Street:	SAN NICOLAS DR	Flow Control:	Not Controlled	Start MH:	1544-0028
City:	Rancho Palos Verdes	Year Renewed		End MH:	1544-0029
Location Code	e: Light Highway	Tape/Media #:	M313-008	pipe length:	307.4 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area:

Lining Method:
Category:

1:750	position	observatio	on			MPEG	photo	grade
1544-0028	0.00		within 8 inch: NO, Re el, 5 %, within 8 inch		MH 1544-0028-SUR	00:00:36 00:00:54	10580 10581	M 2
	101.80	Tap Factor	ry Active, at 3 o'clock	s, 6", within 8 inch: N	0	00:04:05	10582	
	183.10	Tap Break	-in Active, at 3 o'cloc	k, 4", within 8 inch: N	NO	00:07:51	10583	
	258.90	Roots Fine	Joint, from 12 to 1 c	o'clock, within 8 inch:	: YES	00:11:15	10584	
	282.90	Deposits A	attached Grease, from	m 8 to 4 o'clock, 5 %	, within 8 inch: NO	00:12:49	10585	M 2
	290.10	Tap Factor	ry Active, at 3 o'clock	x, 6", within 8 inch: N	0	00:13:18	10586	
	290.10	Roots Fine	Lateral, at 3 o'clock	, within 8 inch: NO		00:13:37	10587	M 1
	296.50	Water Leve	el, 10 %, within 8 inc	h: NO		00:14:10	10588	M 2
	307.00	Hole, from	4 to 8 o'clock, within	8 inch: NO, Remark	s: IN MANHOLE	00:15:11	10589	S 5
1544-0029	307.40	Manhole, v	vithin 8 inch: NO, Re	emarks: DOWNSTRE	EAM MH 1544-0029-S	00:15:51	10590	
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
5100	2311	5	7	12	5	1.75		2.4



Inspection report

		<u>-</u>	<u>-</u>						
Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:				
07/24/2007	YOTV0607D	Dry	Anthony Hernandez	1443	75737				
Total Pipe Length: 226.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/23/2007	Pre-Cleaned: Jetting	Map Grid #: 1545				
VERDES									

Street: KING ARTHUR CT **Not Controlled** Start MH: 1545-0704 Flow Control: City: RPV Year Renewed End MH: 1545-0705 Location Code: Light Highway Tape/Media #: A315-001 pipe length: 253.2 ft

Reason for inspection: **Routine Assessment** Dia/Height: Circular 8"

Vitrified Clay Pipe Pipe Length: Material: Use of Sewer: Sanitary

Lining Method: Drain. Area: 0704/1545-0705/1545 Category:

emark::								
1:625	position	observatio	on			MPEG	photo	grade
1545-0704	0.00	Manhole, v	vithin 8 inch: NO, Re	marks: UPSTREAM N	ИН, BEGIN SURVEY	00:00:28	15142	
	0.00	Vermin Co	ckroach, within 8 inc	h: NO		00:00:42	15143	M 1
	4.00	Roots Fine	Joint, from 2 to 4 o	clock, within 8 inch: Y	ES	00:02:13	15144	
	6.00	Tap Factor	y Active, at 3 o'clocl	x, 6", within 8 inch: NC)	00:03:43	15145	
\mathbb{H}	6.00	Water Leve	el, 5 %, within 8 inch	: NO		00:04:03	15146	M 2
\mathbb{H}	6.00	Water Mar	k, 15 %, within 8 inc	n: NO		00:04:19	15147	M 2
\mathbb{H}	41.80	Broken Vo	id Visible, from 11 to	2 o'clock, within 8 inc	ch: NO	00:06:15	15148, b	S 5
	54.30	Tap Factor	y Active, at 9 o'clocl	x, 6", within 8 inch: NC)	00:08:01	15149	
	67.50	Tap Factor	y Active, at 3 o'clocl	x, 6", within 8 inch: NC)	00:08:41	15150	
	78.00	Roots Fine	Joint, from 11 to 1	o'clock, within 8 inch: \	YES	00:09:23	15151	
	123.80	Roots Med	Roots Medium Joint, from 11 to 4 o'clock, 5 %, within 8 inch: YES				15152	
	129.10	Roots Med	lium Joint, from 12 to	o 1 o'clock, 5 %, withir	n 8 inch: YES	00:12:26	15153	
	135.00			x, 6", within 8 inch: NC		00:13:17	15154	
	253.20	Vermin Co	ckroach, within 8 inc	h: NO		00:16:40	15155	M 1
1545-0709	253.20	Manhole, v	vithin 8 inch: NO, Re	marks: DOWNSTREA	AM MH, END SURVE	Y 00:17:08	15156	
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
5100	2212	5	6	11	5	1.5		2.2



Inspection report

Date: 07/25/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 1446	PSR: 75747					
Total Pipe Length: 265.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/24/2007	Pre-Cleaned: Jetting	Map Grid #: 1545					
	VERDES									

Street: Start MH: 1545-0714 ARMARGA SPRING RD Flow Control: **Not Controlled** City: RPV Year Renewed End MH: 1545-0713 Location Code: Light Highway Tape/Media #: A315-002 pipe length: 294.9 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0714/1545-0713/1545 Category:

	1:725	position	observatio	on			MPEG	photo	grade
	1545-0714	0.00	Manhole, w	vithin 8 inch: NO, Rer	marks: UPSTREAM N	MH, BEGIN SURVEY	00:00:27	15176	
		4.00	Roots Fine	Joint, from 1 to 3 o'c	clock, within 8 inch: Y	ES	00:02:08	15177	
		6.00	Water Leve	el, 15 %, within 8 inch	n: NO		00:05:59	15178	M 2
		6.00	Water Mark	k, 20 %, within 8 inch	: NO		00:06:16	15179	M 2
		38.20	Tap Break-	in Active, at 3 o'clock	c, 6", within 8 inch: No	0	00:07:35	15180	
		41.00	Tap Factor	y Capped, at 9 o'cloo	ck, 6", within 8 inch: N	10	00:08:22	15181	
\$		94.20	Tap Factor	y Capped, at 9 o'cloc	ck, 6", within 8 inch: N	10	00:10:05	15182	
		140.30			<, 6", within 8 inch: No		00:11:58 00:12:44	15183 15184	
•		195.40 239.40			ck, 6", within 8 inch: N		00:14:38 00:16:08	15185 15186	
		240.60	·		c, 6", within 8 inch: No	U	00:16:41 00:17:02	15187 15188	M 1
		240.60		Lateral, at 3 o'clock,	ck, 6", within 8 inch: N	10	00:17:02	15189	IVI I
		282.80				.0	00:17:49	15190	
	282.80 Roots Fine Joint, at 3 o'clock, within 8 inch: YES 287.70 Roots Fine Joint, at 8 o'clock, within 8 inch: YES							15191	
		294.80				O, Remarks: INSIDE	00:19:47	15192	S 5
	MH 1545-0713 294.90 MH 1545-0713 Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH, END SURVEY							15193	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
	5100	2211	5	5 WinCanExport	10 mdb // page: 1	5	1.67		2.5



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YOTV0607D 1788 N. Neville St Orange, Ca 92865 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:					
07/25/2007	YOTV0607D	Dry	Anthony Hernandez	1450	75735					
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 07/24/2007	Pre-Cleaned:	Map Grid #:					
353.00	LACDPW	RANCHO PALOS		Jetting	1545					
	VERDES									

Street: ARMARGA SPRING RD **Not Controlled** Start MH: 1545-0705 Flow Control: City: RPV Year Renewed End MH: 1545-0702 Location Code: Light Highway Tape/Media #: A315-002 pipe length: 314.5 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

	1:429	position	observation	MPEG	photo	grade
		0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH, BEGIN SURVEY	00:00:28	15252	
	1545-0705	0.00	Vermin Cockroach, within 8 inch: NO	00:00:42	15253	M 1
		6.00	Water Level, 15 %, within 8 inch: NO	00:01:22	15254	M 2
		6.00	Water Mark, 25 %, within 8 inch: NO	00:01:38	15255	M 2
		7.90	Roots Fine Joint, at 12 o'clock, within 8 inch: YES	00:01:55	15256	
		23.10	Roots Fine Joint, from 11 to 1 o'clock, within 8 inch: YES	00:02:38	15257	
		28.10	Roots Fine Joint, from 11 to 1 o'clock, within 8 inch: YES	00:03:07	15258	
		43.20	Roots Fine Joint, at 10 o'clock, within 8 inch: YES	00:03:50	15259	
יונג		48.40	Roots Fine Joint, from 8 to 1 o'clock, within 8 inch: YES	00:04:16	15260	
 		49.30	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:04:38	15261	
		55.90	Roots Fine Joint, at 2 o'clock, within 8 inch: YES	00:05:05	15262	
 		57.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:29	15263	
		57.10	Roots Medium Lateral, at 3 o'clock, 30 %, within 8 inch: NO	00:05:57	15264	M 3
		58.50	Roots Fine Joint, from 10 to 3 o'clock, within 8 inch: YES	00:06:22	15265	
		68.70	Roots Fine Joint, from 12 to 2 o'clock, within 8 inch: YES	00:06:56	15266	
		78.90	Roots Medium Joint, from 9 to 1 o'clock, 5 %, within 8 inch: YES	00:07:43	15267	
		109.40	Roots Medium Joint, at 11 o'clock, 5 %, within 8 inch: YES	00:09:32	15268	
		110.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:14	15269	
		110.40	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:10:37	15270	M 1
		114.00	Roots Fine Joint, from 9 to 1 o'clock, within 8 inch: YES	00:11:04	15271	
		134.10	Roots Medium Joint, from 10 to 2 o'clock, 5 %, within 8 inch: YES	00:12:13	15272	
		139.20	Roots Medium Joint, from 9 to 3 o'clock, 5 %, within 8 inch: YES	00:13:23	15273	
		149.40	Roots Fine Joint, from 10 to 1 o'clock, within 8 inch: YES	00:14:31	15274	
1						

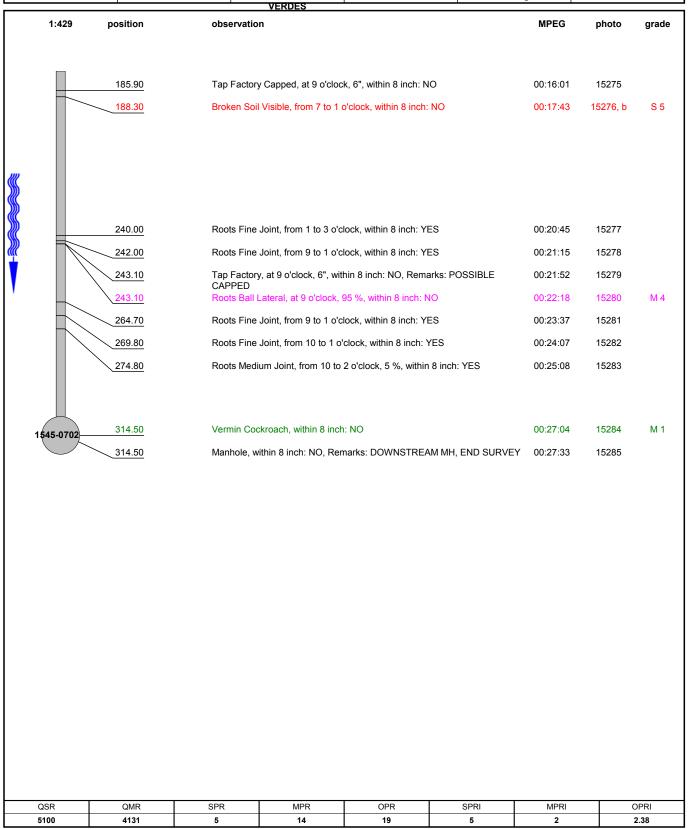


YOTV0607D 1788 N. Neville St

Orange, Ca 92865 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:
07/25/2007	YOTV0607D	Dry	Anthony Hernandez	1450	75735
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 07/24/2007	Pre-Cleaned:	Map Grid #:
353.00	LACDPW	RANCHO PALOS		Jetting	1545





Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:				
07/24/2007	YOTV0607D	Dry	Anthony Hernandez	1445	75748				
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 07/23/2007	Pre-Cleaned:	Map Grid #:				
198.00	LACDPW	RANCHO PALOS		Jetting	1545				
	VERDES								

ARMARGA SPRING RD Start MH: 1545-0719 Street: Flow Control: **Not Controlled** City: RANCHO PALOS VERDES Year Renewed End MH: 1545-0714 Location Code: Light Highway Tape/Media #: A315-001 pipe length: 159.1 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0714/1545-0719/1545 Category:

1:400	position	observation				MPEG	photo	grade
1545-0719	0.00 6.10 6.10 13.20 23.20 23.20 55.20 61.40	Water Level, Water Mark, Tap Factory, CAPPED Tap Factory Roots Ball La	10 %, within 8 inch 15 %, within 8 inch at 9 o'clock, 6", wit Active, at 3 o'clock, ateral, at 3 o'clock, doint, at 1 o'clock, w	n: NO i: NO thin 8 inch: NO, Rem , 6", within 8 inch: No 90 %, within 8 inch:	O NO	00:00:30 00:00:56 00:01:16 00:01:49 00:02:22 00:02:47 00:04:11 00:04:38	15165 15166 15167 15168 15169 15170 15171 15172	M 2 M 2 M 4
	94.30 110.40			, 6", within 8 inch: No 9 o´clock, 6", within		00:05:46 00:06:27	15173 15174	
Hole, at 04 o'clock, within 8 inch: NO, Remark: Hole: End MH								S 5
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
5100	4122	5	8	13	5	2.67		3.25



Inspection report

Date: 06/13/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 509	PSR: 79560			
Total Pipe Length: 361.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06/12/2007	Pre-Cleaned: Jetting	Map Grid #: 1491			
	VERDES							

Street: **GOLDEN MEADOW DR Not Controlled** Start MH: 1491-0684 Flow Control: City: RPV Year Renewed End MH: 1491-0683 Location Code: Light Highway Tape/Media #: G312-019 pipe length: 351.1 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 10"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

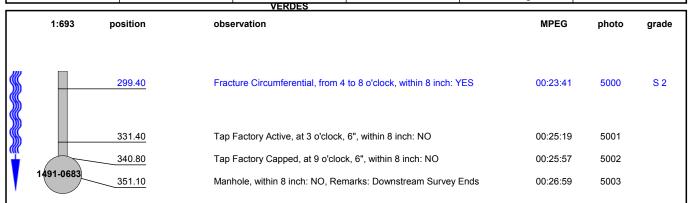
Drain. Area: 0684/1491-0683/1491 Category:

1:693	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:44	4976	
	6.00	Water Level, 10 %, within 8 inch: NO	00:01:32	4977	M 2
1491-0684	35.40	Crack Circumferential, from 10 to 1 o'clock, within 8 inch: YES	00:02:56	4978	S 1
	35.40	Crack Circumferential, from 12 to 3 o'clock, within 8 inch: YES	00:03:20	4979	S 1
	41.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:15	4980	
	44.60	Crack Circumferential, from 12 to 5 o'clock, within 8 inch: YES	00:04:57	4981	S 1
	55.10	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:06:18	4982	S 2
	55.10	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:06:42	4983	S 2
	56.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:27	4984	
	69.60	Crack Circumferential, from 1 to 5 o'clock, within 8 inch: NO	00:08:15	4985	S 1
	104.90	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:10:01	4986	S 3
	116.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:59	4987	
	116.50	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:11:20	4988	M 1
	128.40	Tap Break-in Active, at 9 o'clock, 4", within 8 inch: NO	00:12:22	4989	
	128.40	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:12:42	4990	M 1
	187.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:15:02	4991	
	187.30	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:15:23	4992	M 1
	195.30	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:16:36	4993	S 4
	201.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:17:22	4994	
	256.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:19:13	4995	
	264.80	Crack Circumferential, from 2 to 8 o'clock, within 8 inch: YES	00:20:11	4996	S 1
	266.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:20:46	4997	
	273.70	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:21:37	4998	S 4
	284.20	Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES	00:22:36	4999	S 2



Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:
06/13/2007	YOTV0607D	Dry	Gilbert Contreras	509	79560
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 06/12/2007	Pre-Cleaned:	Map Grid #:
361.00	LACDPW	RANCHO PALOS		Jetting	1491





Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:				
07/25/2007	YOTV0607D	Dry	Gilbert Contreras	866	76287				
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 07/24/2007	Pre-Cleaned:	Map Grid #:				
160.00	LACDPW	RANCHO PALOS		Jetting	1545				
	VERDES								

 Street:
 0
 Flow Control:
 Not Controlled
 Start MH:
 1545-0150

 City:
 RPV
 Year Renewed
 End MH:
 1545-0687

 Location Code: Easement/Right of Way
 Tape/Media #:
 G312-044
 pipe length:
 40.7 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0687/1545-0150/1545 Category:

1:100	position	observatio	on .			MPEG	photo	grade
1545-0150	0.00	Manhole, w	vithin 8 inch: NO, Rer	narks: Downstream S	Survey Begins	00:00:48	8523	
	5.00	Water Leve	el, 5 %, within 8 inch:	NO		00:02:25	8524	M 2
	9.80		Up, 15 %, within 8 inc			00:02:46 00:03:26	8525, b 8527, b	M 2 S 1
	19.70 19.70 24.90 S1	Crack Long	Joint, from 7 to 5 o'c gitudinal, at 9 o'clock, Joint, from 7 to 5 o'c	within 8 inch: YES		00:04:24 00:04:49 00:06:23	8529, b 8531, b 8533, b	S 2
	40.20 40.20 40.20 40.60 F1	Fracture Modern	m 7 to 9 o'clock, with ultiple, from 7 to 5 o'c t Medium, within 8 ind Joint, from 7 to 5 o'c	clock, within 8 inch: Y		00:07:57 00:08:19 00:08:50 00:11:26	8535, b 8537, b 8539, b 8541	S 4 S 4 S 1
40.70 Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by broken								
 QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
4221	2200	12	4	16	2.4	2	1	2.29



Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:		
07/25/2007	YOTV0607D	Dry	Gilbert Contreras	871	76287		
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 07/24/2007	Pre-Cleaned:	Map Grid #:		
160.00	LACDPW	RANCHO PALOS		Jetting	1545		
VERDES							

 Street:
 0
 Flow Control:
 Not Controlled
 Start MH:
 1545-0687

 City:
 RPV
 Year Renewed
 End MH:
 1545-0150

 Location Code: Easement/Right of Way
 Tape/Media #:
 G312-044
 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: 0687/1545-0150/1545 Category:

	1:25	position	observation	MPEG	photo	grade
ım	1545-0687	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:55	8559	
》		0.00	Infil Weeper, from 3 to 4 o'clock, within 8 inch: NO	00:03:45	8560, b	M 2
		0.50	Deposits Attached Encrustation, from 2 to 5 o'clock, 10 %, within 8 inch: NO. Remarks: calcium	00:02:06	8562, b	M 2
\		0.70	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:02:47	8564, b	
	`	1.00	Deposits Settled Compacted, from 2 to 4 o'clock, 15 %, within 8 inch: YES, Remarks: cement	00:05:27	8566, b	М 3
٧		1.00	Roots Fine Joint, at 7 o'clock, within 8 inch: YES	00:05:54	8568, b	
		2.00	Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by cement	00:07:35	8570	



Inspection report

Date: 06/13/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 506	PSR: 80671				
Total Pipe Length: 313.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06/12/2007	Pre-Cleaned: Jetting	Map Grid #: 1490				
	VERDES								

Street: **GOLDEN MEADOW DR Not Controlled** Start MH: 1490-0211 Flow Control: 1490-0210 City: RPV Year Renewed End MH: Location Code: Light Highway Tape/Media #: G312-019 pipe length: 295 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 10"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0211/1490-0210/1490 Category:

	1:725	position	observation	n			MPEG	photo	grade
		0.00	Manhala w	ithin 8 inch: N∩ Por	marks: Upstream Sur	yoy Rogins	00:00:41	4924	
					•	, ,		4925	
					lock, within 8 inch: YE	=5, Start	00:01:45		МО
	1490-0211	6.00		I, 15 %, within 8 inch			00:02:20	4926	M 2
		8.20			6", within 8 inch: NO		00:02:45	4927	
		8.20	Roots Tap I	Lateral, from 3 to 4 c	'clock, 10 %, within 8	inch: NO	00:03:07	4928	M 2
		26.70 F1	Roots Fine	Joint, from 7 to 9 o'c	lock, within 8 inch: YE	ES, End	00:04:16	4929	
		69.10	Tap Factory	Active, at 3 o'clock	6", within 8 inch: NO	1	00:05:47	4930	
		73.10	Tap Factory	Active, at 9 o'clock	6", within 8 inch: NO		00:06:15	4931	
		73.10	Roots Fine	Lateral, at 9 o'clock,	within 8 inch: NO		00:06:35	4932	M 1
<i>III</i>		75.90	Roots Fine	Joint, from 3 to 9 o'c	lock, within 8 inch: Ye	ES	00:07:26	4933	
	143.90 143.90 145.80		Tap Factory	Active, at 9 o'clock	6", within 8 inch: NO	ı	00:10:08	4934	
 			Roots Tap I	Lateral, from 8 to 9 c	clock, 15 %, within 8	inch: NO	00:10:34	4935	M 2
S			Crack Multip	ple, from 2 to 4 o'clo	ck, within 8 inch: NO		00:11:25	4936	S 3
Ť		146.60	Tap Break-i	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO			00:12:08	4937	
	146.60		Hole, from 1	Hole, from 12 to 2 o'clock, within 8 inch: NO			00:12:58	4938	S 4
		146.60	Roots Fine	Roots Fine Barrel, from 12 to 3 o'clock, within 8 inch: NO			00:13:34	4939	M 2
	H \	147.10	Crack Multip	Crack Multiple, from 12 to 5 o'clock, within 8 inch: NO			00:14:25	4940	S 3
		164.90	Crack Circu	Crack Circumferential, from 6 to 1 o'clock, within 8 inch: YES			00:15:45	4941	S 1
		195.50	Crack Long	itudinal, at 4 o'clock	within 8 inch: YES		00:17:20	4942	S 2
		212.10	Tap Factory	Active, at 9 o'clock	6", within 8 inch: NO	ı	00:18:22	4943	
		216.10			6", within 8 inch: NO		00:18:52	4944	
		216.10		Lateral, at 3 o'clock,			00:19:12	4945	M 1
		291.80			6", within 8 inch: NO	1	00:13:12	4946	141 1
	1490-0210						00:22:13	4947	
		295.00	iviannoie, W	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends			00:22:59	4947	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
	4132	2412	13	10	23	2.6	1.67		2.09



Inspection report

Date: 06/15/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 536	PSR: 79617						
Total Pipe Length: 330.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06/14/2007	Pre-Cleaned: Heavy Cleaning	Map Grid #: 1491						
	VERDES										

GOLDEN MEADOW DR Start MH: 1491-0640 Street: Flow Control: **Not Controlled** City: RPV Year Renewed End MH: 1491-0639 Location Code: Easement/Right of Way Tape/Media #: G312-021 pipe length: 225.1 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 10"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0640/1491-0639/1491 Category:

	1:550	position	observatio	on			MPEG	photo	grade
149	01-0640	0.00 5.00 9.10	Water Lev	el, 15 %, within 8 inc	marks: Upstream Sur h: NO, Remarks: fast i, 6", within 8 inch: NC	flow	00:00:42 00:01:48 00:06:58	5393 5394 5395	M 2
		99.30 S1 101.60 103.90 F1 110.60	Broken, fro Fracture M Tap Factor	om 1 to 2 o'clock, wit	clock, within 8 inch: Y	ES, End	00:09:18 00:10:15 00:10:55 00:11:19 00:11:39	5396 5397 5398 5399 5400	S 4 S 4 S 4
		114.50 158.40 158.40	Roots Fine	Joint, from 7 to 5 o'	clock, within 8 inch: NC	ES	00:12:18 00:13:29 00:13:51	5401 5402 5403	S 3
149	91-0639	225.10	Manhole, v	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends				5404	
QS	iR	QMR	SPR	MPR	OPR	SPRI	MPRI	T	OPRI
433	31	2111	15	3	18	3.75	1.5		3



Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:					
06/15/2007	YOTV0607D	Dry	Gilbert Contreras	535	79618					
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 06/14/2007	Pre-Cleaned:	Map Grid #:					
408.00	LACDPW	RANCHO PALOS		Heavy Cleaning	1491					
	VERDES									

Street: **GOLDEN MEADOW DR Not Controlled** Start MH: 1491-0641 Flow Control: City: RPV Year Renewed End MH: 1491-0640 Location Code: Light Highway Tape/Media #: G312-021 pipe length: 297.2 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 12"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

	1:725	position	observatio	on			MPEG	photo	grade
		0.00	Manhala	iithin Qinahi NO Dar	madra Unatro em Cur	vev Begins	00.00.20	F272	
	1491-0641	0.00			marks: Upstream Sur	vey Begins	00:00:38	5373	
		6.00	Water Leve	el, 15 %, within 8 inch	n: NO		00:01:57	5374	M 2
		30.30	Tap Factor	y Capped, at 9 o'cloo	k, 6", within 8 inch: N	0	00:02:59	5375	
		38.00 S1	Roots Fine	Joint, from 7 to 5 o'c	lock, within 8 inch: Yf	ES, Start	00:03:43	5376	
		69.70	Tap Factor	y Active, at 3 o'clock,	6", within 8 inch: NO		00:5:10	5377	
		69.70	Roots Fine	Lateral, at 3 o'clock,	within 8 inch: NO		00:05:30	5378	M 1
,,,,		88.20	Crack Multi	iple, from 8 to 4 o'clo	ck, within 8 inch: YES	3	00:07:24	5379	S 3
S		104.20		in Intruding, at 9 o'clo	ock, 6", 1, within 8 inc	ch: NO, Remarks: 1"	00:08:43	5380	M 2
		108.40	intrusion Fracture Ci	ircumferential, from 6	to 1 o'clock, within 8	inch: YES	00:18:23	5381	S 2
		128.50	Crack Circu	umferential, from 2 to	5 o'clock, within 8 in	ch: YES	00:20:01	5382	S 1
4		133.70	Fracture Ci	ircumferential, from 6	to 1 o'clock, within 8	inch: YES	00:20:48	5383	S 2
V		145.20	Tap Factor	y Active, at 3 o'clock,	6", within 8 inch: NO		00:21:54	5384	
ļ		184.40 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO					00:23:14	5385	
		219.20	Tap Break-	in Active. at 9 o'clock	د, 6", within 8 inch: N0)	00:24:52	5386	
		224.30	·		6", within 8 inch: NO		00:25:37	5387	
		231.00			c, 6", within 8 inch: No		00:26:13	5388	
		253.30	•		6", within 8 inch: NO		00:27:06	5389	
		281.70 F1			lock, within 8 inch: Yi		00:28:03	5390	
		297.10				-,	00:29:00	5391	S 4
	1491-0640	297.20		Hole, from 7 to 9 o'clock, within 8 inch: NO Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends			00:29:43	5392	
			,	,		•			
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
	4131	2211	12	5	17	2.4	1.67		2.13



Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:						
06/04/2007	YOTV0607D	Dry	Gilbert Contreras	386	80587						
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 06/01/2007	Pre-Cleaned:	Map Grid #:						
357.00	LACDPW	RANCHO PALOS		Jetting	1490						
	VERDES										

Street: **BROOKFORD DR** Start MH: 1490-0235 Flow Control: **Not Controlled** City: RANCHO PALOS VERDES Year Renewed End MH: 1490-0234 Location Code: Light Highway Tape/Media #: G312-012 pipe length: 325.9 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

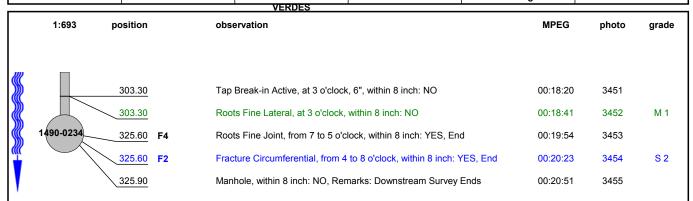
Drain. Area: 0235/1490-0234/1490 Category:

	1:693	position	observation	MPEG	photo	grade
	1490-0235	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:38	3429	
		5.00	Water Level, 10 %, within 8 inch: NO	00:01:20	3430	M 2
		60.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:42	3431	
		72.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:20	3432	
		123.30	Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES, Start	00:04:47	3433	S 2
		128.20	Tap Break-in Defective, at 9 o'clock, 4", within 8 inch: NO	00:05:34	3434	М 3
		135.20	Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES, End	00:06:15	3435	S 2
,,,,		143.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:39	3436	
		146.10	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:07:15	3437	S 4
		173.60	2 Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES, Start	00:08:42	3438	S 2
 		190.80	Roots Fine Joint, from 8 to 1 o'clock, within 8 inch: YES	00:09:40	3439	
		204.10	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:10:30	3440	
1		212.10	Tap Break-in Active, at 9 o'clock, 4", within 8 inch: NO	00:11:05	3441	
	H//	212.10	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:11:25	3442	M 1
	H//	226.60	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:12:24	3443	
	H//	226.60	Crack Circumferential, from 3 to 9 o'clock, within 8 inch: YES	00:12:45	3444	S 1
		227.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:36	3445	
		227.70	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:14:00	3446	M 1
		237.80	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:14:42	3447	
		246.20	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:15:15	3448	
		271.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:16:28	3449	
		271.70	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:16:49	3450	M 1



Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:
06/04/2007	YOTV0607D	Dry	Gilbert Contreras	386	80587
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 06/01/2007	Pre-Cleaned:	Map Grid #:
357.00	LACDPW	RANCHO PALOS		Jetting	1490





YOTV0607D

Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:						
06/12/2007	YOTV0607D	Dry	Gilbert Contreras	492	75767						
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 06/11/2007	Pre-Cleaned:	Map Grid #:						
140.00	LACDPW	RANCHO PALOS		Jetting	1545						
	VERDES										

Street: ROTHROCK DR Start MH: 1545-0616 Flow Control: **Not Controlled** City: RANCHO PALOS VERDES Year Renewed End MH: 1545-0615 Location Code: Light Highway Tape/Media #: G312-018 pipe length: 230.8 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0616/1545-0615/1545 Category:

	1:297	position		observation	MPEG	photo	grade
		0.00		Manhala within 9 inch: NO. Romarka: Unatroom Survay Rogina	00:00:42	4727	
				Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:43		
	1545-0616	2.50		Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:01:42	4728	
		4.00		Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:02:41	4729	
		5.00		Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:54	4730	
		5.00		Water Level, 5 %, within 8 inch: NO	00:04:15	4731	M 2
		11.40		Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:04:52	4732	
	\ \ \ \	14.70		Deposits Ingressed Fine, from 5 to 7 o'clock, 10 %, within 8 inch: NO, Remarks: silt	00:05:40	4733	M 2
		14.70		Water Level, 15 %, within 8 inch: NO	00:06:08	4734	M 2
ıııı		29.70		Water Level, 10 %, within 8 inch: NO, Remarks: held by tissue debris	00:06:49	4735	M 2
>>		42.20		Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:07:24	4736	
		43.40		Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:59	4737	
 		55.10	S1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:08:47	4738	
		55.10	S2	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:10:18	4739	S 4
		58.40	F2	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:11:24	4740	S 4
		62.30		Water Level, 15 %, within 8 inch: NO	00:11:53	4741	M 2
		78.70	S 3	Alignment Right, 5 %, within 8 inch: NO, Start	00:12:26	4742	M 1
		93.30		Water Level, 5 %, within 8 inch: NO	00:13:24	4743	M 2
		94.30		Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:55	4744	
		94.30		Roots Tap Lateral, at 3 o'clock, 15 %, within 8 inch: NO	00:14:17	4745	M 2
		108.40		Water Level, 15 %, within 8 inch: NO	00:15:27	4746	M 2
		114.40	S4	Water Level Sag, 25 %, within 8 inch: NO, Start	00:15:51	4747	M 2
		122.30	F4	Water Level Sag, 25 %, within 8 inch: NO, End	00:16:40	4748	M 2
		122.30		Water Level, 5 %, within 8 inch: NO	00:17:03	4749	M 2



Inspection report

Date:	P.O.#:	Weather:	Surveyed By:	section number:	PSR:
06/12/2007	YOTV0607D	Dry	Gilbert Contreras	492	75767
Total Pipe Length:	Survey Customer:	System Owner:	Clean Date: 06/11/2007	Pre-Cleaned:	Map Grid #:
140.00	LACDPW	RANCHO PALOS		Jetting	1545

_					VERDES		,	iiig		
	1:297	position		observatio	n			MPEG	photo	grade
		123.80		-	in Active, at 9 o'clock)	00:17:39	4750	
		127.30		Water Leve	el, 15 %, within 8 inch	: NO		00:18:04	4751	M 2
		137.10		Water Leve	el, 5 %, within 8 inch:	NO		00:18:28	4752	M 2
		142.90	F1	Roots Fine	Joint, from 7 to 5 o'c	lock, within 8 inch: YE	ES, End	00:18:51	4753	
(((
\$										
>>										
>>>										
٧										
١										
		206.70	F3	Alignment F	Right, 5 %, within 8 in	ch: NO, End		00:20:41	4754	M 1
		208.30		Tap Factory	y Active, at 9 o'clock,	6", within 8 inch: NO		00:21:05	4755	
		211.70		Roots Fine	Joint, from 2 to 5 o'c	ock, within 8 inch: YE	ES	00:21:47	4756	
		219.80		Roots Fine	Joint, from 2 to 4 o'c	ock, within 8 inch: YE	ES	00:22:32	4757	
	1545-0615	228.10		Roots Fine	Joint, from 8 to 1 o'c	ock, within 8 inch: YE	ES	00:23:18	4758	
	1,40-0019	230.80		Manhole, w	vithin 8 inch: NO, Ren	narks: Downstream S	urvey Ends	00:24:18	4759	
İ										
	QSR	QMR		SPR	MPR	OPR	SPRI	MPRI		OPRI
	4200	2B12		8	28 WinCanExport.r	36 ndb // page: 2	4	1.87		2.12



Inspection report

Date: 06/15/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 540	PSR: 75682				
Total Pipe Length: 218.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06/14/2007	Pre-Cleaned: Jetting	Map Grid #: 1545				
	VERDES								

Street: Start MH: 1545-0760 SHIRE OAKS DR Flow Control: **Not Controlled** City: RPV Year Renewed End MH: 1545-0761 Location Code: Light Highway Tape/Media #: G312-021 pipe length: 205.5 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0760/1545-0761/1545 Category:

1:525	position	observatio	on			MPEG	photo	grade
	0.00	Manhole. w	vithin 8 inch: NO. Rer	marks: Upstream Sur	vev Begins	00:00:50	5440	
1545-0760	0.00		el, 5 %, within 8 inch:		., .,	00:01:15	5441	M 2
	6.10			clock, within 8 inch: Yi	ΞS	00:01:49	5442	
	12.40	Tap Factor	y Active, at 9 o'clock,	, 6", within 8 inch: NO		00:02:36	5443	
	40.40 S1	Fracture M	ultiple, from 7 to 6 o'd	clock, within 8 inch: Y	ES, Start	00:04:21	5444	S 4
	44.50 F1	Fracture M	ultiple, from 7 to 6 o'd	clock, within 8 inch: Y	ES, End	00:05:26	5445	S 4
	86.60	Tap Factor	y Active, at 9 o'clock,	, 6", within 8 inch: NO		00:06:59	5446	
	160.80	Tap Factor	y Active, at 9 o'clock,	, 6", within 8 inch: NO		00:09:32	5447	
1545-0761	205.50	Manhole, w	vithin 8 inch: NO, Rer	marks: Downstream S	ourvey Ends	00:11:33	5448	
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
			i	1		1		



Inspection report

Date: 06/12/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Martin Garcia	section number: 1143	PSR: 75694
Total Pipe Length: 302.00	Survey Customer: LACDPW	System Owner: Rancho Palos Verdes	Clean Date: 06/11/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: SEAMOUNT DR Flow Control: **Not Controlled** Start MH: 1545-0772 City: Rancho Palos Verdes Year Renewed End MH: 1545-0771 Location Code: Easement/Right of Way Tape/Media #: M313-015 pipe length: 339.1 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area:

Lining Method:
Category:

1:850	position	observati	on			MPEG	photo	grade
1545-0772	0.00	Manhole,	within 8 inch: NO, Re	emarks: UPSTREAM I	MH 1545-0772-SUR	00:00:34	11923	
	2.00	Tap Facto	ory Active, at 10 o'cloo	ck, 4", within 8 inch: N	10	00:01:27	11924	
	6.00	Water Lev	vel, 5 %, within 8 inch	: NO		00:02:18	11925	M 2
	22.70	Alignment	Alignment Left, within 8 inch: NO					M 1
	45.30	Tap Facto	ory Active, at 2 o'clock	k, 4", within 8 inch: NC)	00:09:24	11927	
	73.10	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO				00:10:29	11928	
	123.00	Alignment Left, within 8 inch: NO				00:12:12	11929	M 1
	131.40	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO				00:12:42	11930	
	174.70 Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO)	00:14:30	11931	
	187.40	Tap Facto	ory Active, at 2 o'clock	k, 4", within 8 inch: NC)	00:15:22	11932	
	193.10	Alignment	t Left, within 8 inch: N	10		00:15:47	11933	M 1
	235.80	Tap Facto	ory Active, at 2 o'clock	x, 4", within 8 inch: NC)	00:17:12	11934	
	258.80	Tap Facto	ory Active, at 10 o'cloo	ck, 4", within 8 inch: N	10	00:18:13	11935	
	265.10	Fracture N	Multiple, from 7 to 5 o	'clock, within 8 inch: \	/ES	00:18:48	11936	S 4
	297.10 Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO						11937	
1545 0774	335.00	335.00 Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO				00:21:47	11938	
1945-0771	1545-0771 339.10 Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH 1545-0771-S						11939	
			T		1			
QSR 4100	QMR 2113	SPR 4	MPR 5	OPR 9	SPRI 4	MPRI 1.25		OPRI 1.8



Inspection report

Date: 07/25/2007	P.O.#: YOTV0607D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 1449	PSR: 75738				
Total Pipe Length: 264.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/24/2007	Pre-Cleaned: Jetting	Map Grid #: 1545				
	VERDES								

Street: Start MH: 1545-0711 ARMARGA SPRING RD Flow Control: **Not Controlled** City: RPV Year Renewed End MH: 1545-0705 Location Code: Light Highway Tape/Media #: A315-002 pipe length: 284.8 ft

Reason for inspection: Routine Assessment Dia/Height: Circular 8"

Use of Sewer: Sanitary Material: Vitrified Clay Pipe Pipe Length:

Drain. Area: 0711/1545-0705/1545 Category:

	1:700	position	observatio	n			MPEG	photo	grade
		0.00	Manhole w	ithin 8 inch: NO. Rei	marks: UPSTRFAM N	ИН, BEGIN SURVEY	00:00:31	15236	
	1545-0711	0.00		ckroach, within 8 inch		, 2_0 00 2	00:00:45	15237	M 1
		6.00		el, 20 %, within 8 inch			00:01:23	15238	M 2
		12.70			, 6", within 8 inch: NC	.	00:01:50	15239	2
		26.00		m 1 to 2 o'clock, with		,	00:02:52	15240	S 4
		28.20		x, 30 %, within 8 inch			00:03:54	15241	M 2
					, 6", within 8 inch: NC		00:05:29	15242	IVI Z
		76.10 80.80	·		ck, 6", within 8 inch: N		00:05:54	15242	
 		138.90	Tap Factor	y Active, at 3 o'clock	, 6", within 8 inch: NC)	00:07:58	15244	
		138.90 Roots Fine Lateral, at 3 o'clock, within 8 inch: NO 150.70 Roots Fine Joint, from 2 to 3 o'clock, within 8 inch: YES					00:08:23	15245	M 1
1							00:09:03	15246	
		171.90 Tap Break-in Active, at 9 o'clock, 6", with				0	00:10:02	15247	
		202.70	Tap Factor	y Active, at 3 o'clock	, 6", within 8 inch: NC		00:11:47	15248	
	\perp	245.70	Tap Factor	y Active, at 9 o'clock	, 6", within 8 inch: NC)	00:13:27	15249	
		284.80	Vermin Cod	ckroach, within 8 inch	n: NO		00:15:04	15250	M 1
	1545-0705	284.80	Manhole, w	rithin 8 inch: NO, Rer	marks: DOWNSTREA	AM MH, END SURVEY	00:16:00	15251	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
Щ	4100	2213	4	7 WinCanExport	11	4	1.4		1.83