

# **COUNTY OF LOS ANGELES**

### **DEPARTMENT OF PUBLIC WORKS**

"To Enrich Lives Through Effective and Caring Service"

DEAN D. EFSTATHIOU, Acting Director

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IN REPLY PLEASE REFER TO FILE: SM-0

August 27, 2008

Ms. Marlene Miyoshi, Director of Public Works City of Lawndale 14717 Burin Avenue Lawndale, CA 90260

Attention Keith M. Breskin

Dear Ms. Miyoshi:

#### CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT Y0TV0607A

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 176,600 feet or 100 percent of the City of Lawndale's sewer system.

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

- Condition Assessment Program 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 Infrastructure Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

Ms. Marlene Miyoshi, Director of Public Works August 27, 2008 Page 2

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

If you have any questions regarding this Report or the Condition Assessment Program, please contact Mr. Robert Swartz AT (626) 300-3367, Monday through Friday, 7 a.m. to 4 p.m., or at <u>rswartz@dpw.lacounty.gov</u>.

Very truly yours,

>

DEAN EFSTATHIOU Acting Director of Public Works

MANUEL DEL REAL Assistant Deputy Director Sewer Maintenance Division

CM:ag

Enc.

bc: Programs Development (Mostafa)

bc: MdR, KL, RS, FV, File (Project Y0TV0607A), SPINDLE

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

PROJECT NAME:	Y0TV0607A	PROJECT MGR:	Kari Eskridge
PROJECT DATE:	1/15/07 – 3/26/07	CONTACT NO:	(626) 300-3390
SUP. DISTRICT(s):	2	MAP PAGE(S):	1592, 1593, and 1594
Report By:	Colin McCarter	Report Date:	08/21/08

#### 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 176,600 feet or 100 percent of the City of Lawndale sewer system.

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

#### PROJECT AREA AND DESCRIPTION

Project Y0TV0607A included sewer lines located in both the Unincorporated County of Los Angeles area and in the City of Lawndale. Enclosed for your reference is an overview map of the project area (Enclosure 1).

#### **DEFECT GRADE DESCRIPTION**

The Quick Rating indicates the number of occurrences for the highest severity grade for each pipe segment for either maintenance or infrastructure 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 5 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: Sever defects that will become grade 5 defects within the foreseeable future.	5 to 10 years
5:	IMMEDIATE ATTENTION: Defects requiring immediate attention.	Has failed or will likely fail within the next 5 years

#### MAINTENANCE REPORT

Our inspection revealed that approximately 87.7 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 12.3 percent of the inspected pipe segments within the City of Lawndale 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 and outlines the observation from the CCTV inspection and the corrective action taken by our maintenance staff.

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	96,915	54.9	408
2: Good	39,457	22.3	150
3: Fair	18,551	10.5	72
4: Poor	17,618	10.0	64
5: Immediate Attention	4,059	2.3	15
TOTAL	176,600	100.0	709

#### **QUICK MAINTENANCE RATING TABLE**

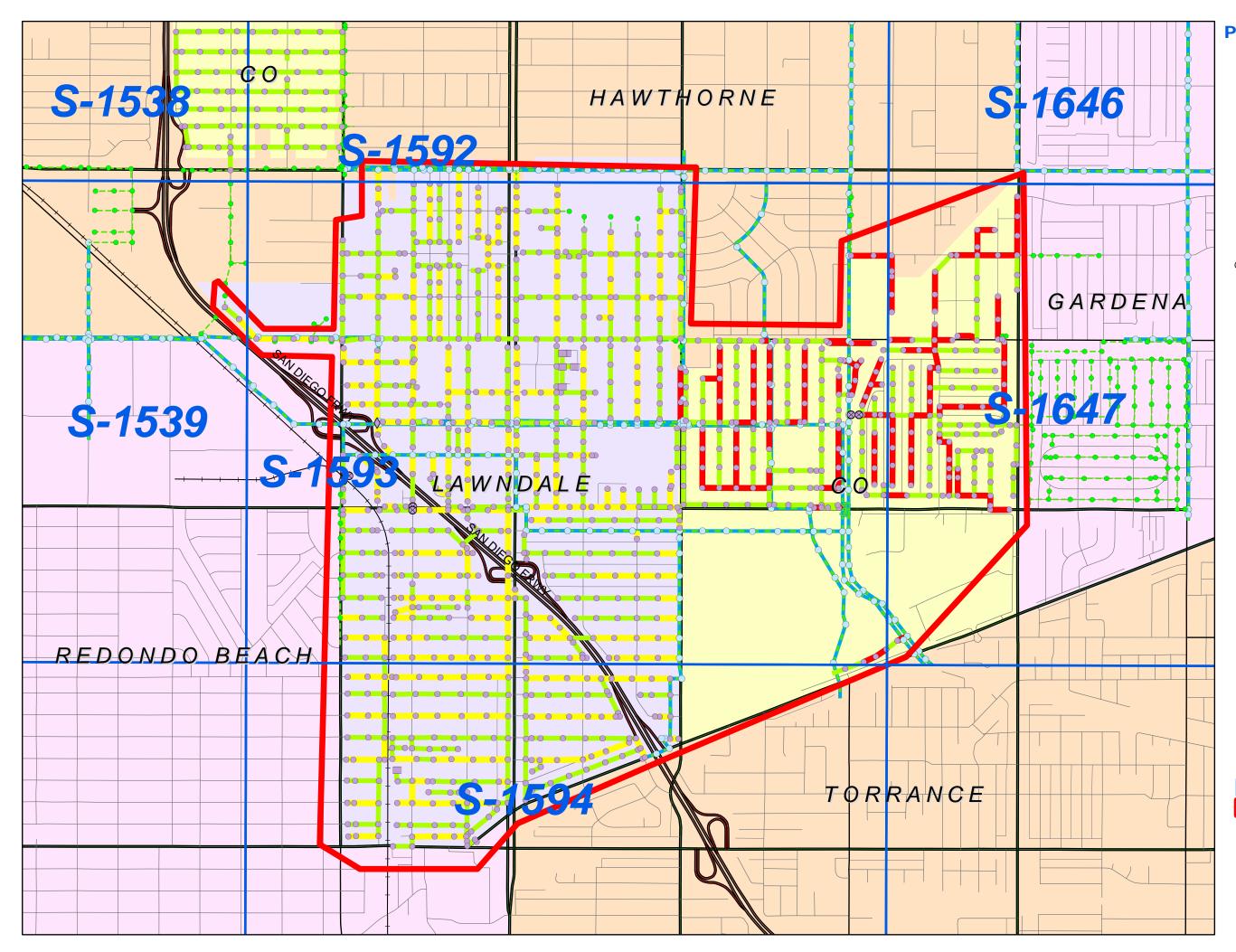
#### STRUCTURAL REPORT

Our inspection revealed that approximately 95.9 percent of the inspected pipe segments within the City of Lawndale were free of severe structural defects. However, the remaining 4.1 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Infrastructure 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 26 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 reports for these 26 segments are included in Enclosure 4.

<u>QU</u>	ICK STRUC	TURAL RATING T	ABLE
DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	83,704	47.4	358
2: Good	31,729	18.0	123
3: Fair	53,893	30.5	202
4: Poor	2,530	1.4	9
5: Immediate Attention	4,744	2.7	17
TOTAL	176,600	100.0	709

# **ENCLOSURE 1**:

**Project Overview Map** 



# PROJECT OVERVIEW MAP CCTV PROJECT YOTVO607A Supervisorial District 2 City of Lawndale Unincorporated LA County



Feet

Legend

## **SMD Manholes**

• Other

### МН Туре

- Standard
- ▲ DROP
- Shallow
- ♦ Trap
- Siphon
- SMD Pump Satations
- **WTP** SMD Treatment Plants

## **SMD Sanitary Sewers**

<all other values>

### S\_T.S\_Location

- LAW
- ZLAS

#### Maintained by Others:

- Trunk Sewerlines
- ---- Non SMD Sanitary Sewers
- Trunk Sewer
- Non SMD Manholes
  - Parcel Boundary
  - SMD Operations Maps
- Y0TV0607A

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## August 2008 Y0TV0708C\_Overview.mdx

# ENCLOSURE 2:

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

#### ENCLOSURE 2 QUICK MAINTENANCE REPORT PRIORITY LIST -CITY OFLAWNDALE (Y0TV0607A) as of 03/26/07

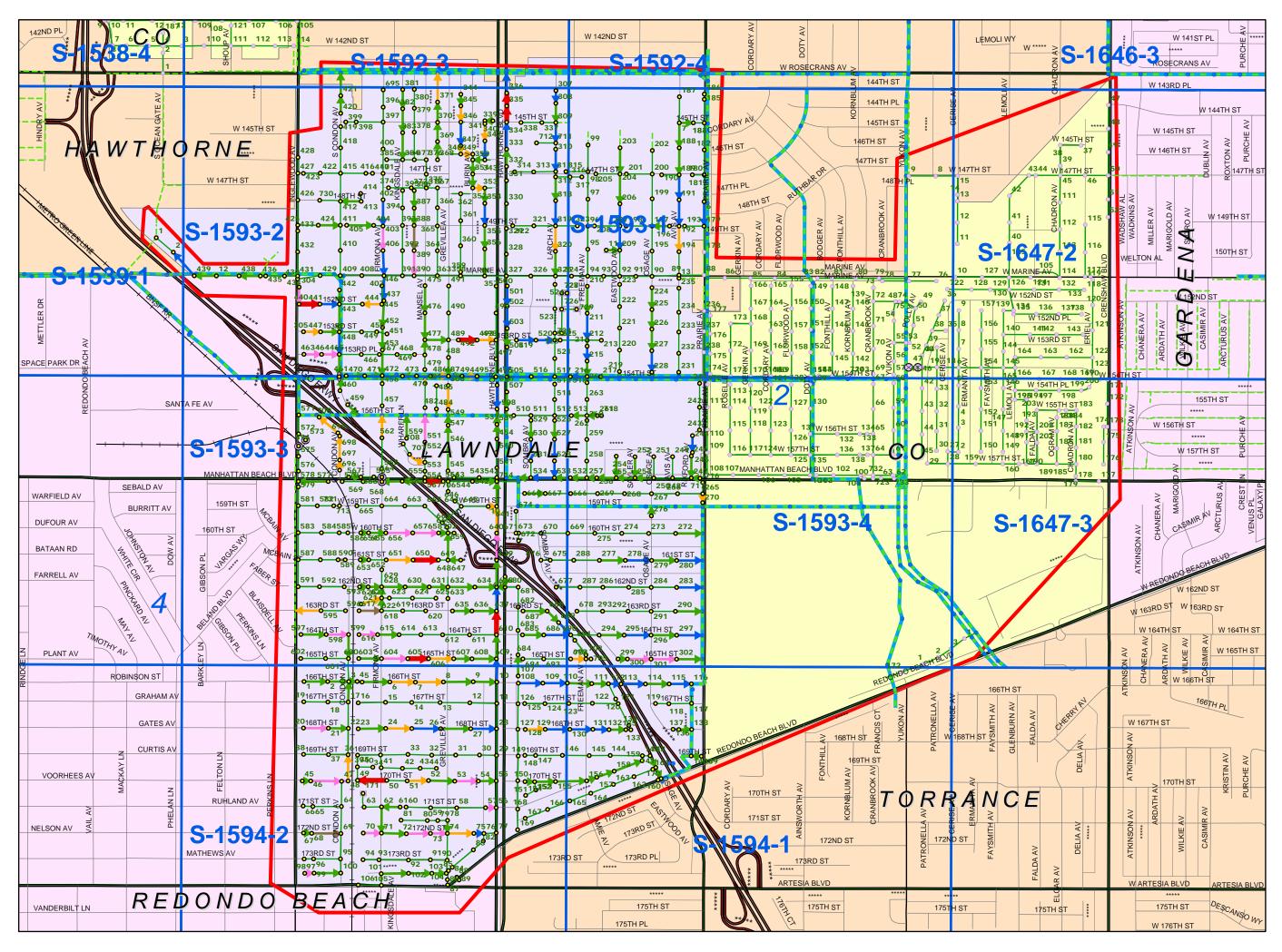
Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5841	1593-0492	1593-0493	153RD ST	Debris	Hydrojet (Cleaned 1/23/07)
2	5545	1593-0645	1593-0010	159TH ST	Grease deposits	Hydrojet (Cleaned 6/12/08)
3	5442	1593-0650	1593-0649	161ST ST	Grease deposits	Rodder (Cleaned 3/10/08)
4	5322	1593-0441	1593-0440	152ND ST	Grease deposits	Hydrojet (Cleaned 6/12/08)
5	5141	1593-0433	1593-0432	INGLEWOOD AV	Grease deposits	Hydrojet (Cleaned 6/12/08)
6	5131	1593-0605	1593-0606	165TH ST	Grease deposits	Hydrojet (Cleaned 6/13/08)
7	512O	1593-0335	1593-0336	HAWTHORNE BV	Grease deposits	Hydrojet on a 6-Month Periodic (Last cleaned 3/7/08)
8	512K	1593-0334	1593-0335	HAWTHORNE BV	Grease deposits	Hydrojet on a 6-Month Periodic (Last cleaned 3/7/08)
9	512C	1593-0569	1593-0568	MANHATTAN BEACH BV	Grease deposits	Hydrojet (Cleaned 6/13/08)
10	5121	1593-0706	1593-0555	MANHATTAN BEACH BV	Obstacle	Emergency Point Repair (September 2007)
11	5121	1593-0357	1593-0327	MARINE AV	Grease deposits	Hydrojet on a 6-Month Periodic (Last cleaned 3/25/08)
12	5121	1594-0050	1594-0049	170TH ST	Rootball intruding from lateral	Hydrojet on a 60-Day Periodic (Last cleaned 5/06/08)
13	511H	1593-0624	1593-0625	EASEMENT by FIRMONA and 162ND	Grease deposits	Hydrojet (Cleaned 6/16/08)
14	5100	1593-0556	1593-0557	MANHATTAN BEACH BV	Rocks and deposits	Hydrojet (Cleaned 6/13/08)
15	5100	1593-0610	1593-0637	HAWTHORNE BV	High water level	Hydrojet (Cleaned 6/16/08)
16	4632	1593-0466	1593-0465	153RD PL	Medium roots	Hydrojet (Cleaned 6/12/08)
17	441G	1593-0426	1593-0425	INGLEWOOD AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/12/08)
18	4335	1593-0463	1593-0464	153RD PL	Rootball intruding from lateral	Hydrojet (Cleaned 6/12/08)
19	4334	1594-0051	1594-0050	170TH ST	Rootball intruding from lateral	Hydrojet on a 60-Day Periodic (Last cleaned 5/06/08)
20	4332	1594-0041	1594-0042	EASEMENT by FIRMONA and 170TH	Rootball at joint and intruding from lateral	Hydrojet (Cleaned 6/13/08)
21	4331	1594-0012	1594-0011	167TH ST	Rootball intruding from lateral	Rodder (Last cleaned 11/06/07)
22	4331	1594-0081	1594-0080	EASEMENT by GREVILLA and 172ND	Rootball intruding from lateral	Hydrojet (Cleaned 6/13/08)
23	4315	1594-0037	1594-0036	169TH ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/13/08)
24	4238	1593-0403	1593-0406	FIRMONA AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/13/08)
25	4233	1593-0361	1593-0360	ALLEY Between GREVILLEA AV and BURIN AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/13/08)
26	4233	1593-0444	1593-0443	152ND ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/12/08)
27	4231	1594-0057	1594-0056	171ST ST	Rootball intruding from lateral	Hydrojet on a 5-Month Periodic (Last cleaned 3/12/08)
28	4231	1594-0072	1594-0073	172ND ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/13/08)
29	4231	1594-0076A	1594-0077	172ND ST	Grease deposits	Hydrojet on a 90-Day Periodic (Last cleaned 3/12/08)
30	422C	1593-0657	1593-0658	160TH ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/12/08)
31	4222	1594-0047	1594-0048	170TH ST	Grease deposits	Hydrojet (Cleaned 6/13/08)
32	421C	1593-0652	1593-0651	161ST ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/8/08)
33	421A	1593-0390	1593-0389	ALLEY Between KINGSDALE AV and MANSEL AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/16/08)

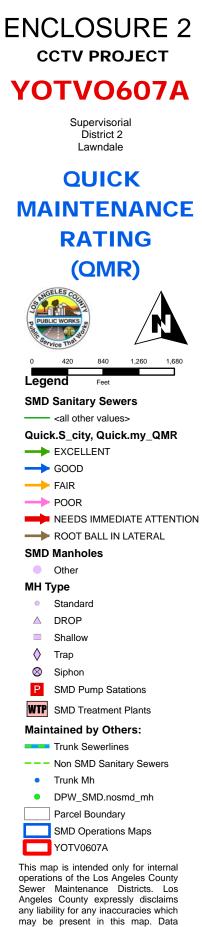
#### ENCLOSURE 2 QUICK MAINTENANCE REPORT PRIORITY LIST -CITY OFLAWNDALE (Y0TV0607A) as of 03/26/07

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
34	421A	1594-0053	1594-0054	170TH ST	Rootball intruding from lateral	Hydrojet on a 60-Day Periodic (Last cleaned 5/06/08)
35	4216	1593-0551	1593-TRNK	MANSEL AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/16/08)
36	4213	1594-0073	1594-0074	172ND ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/13/08)
37	4211	1594-0080	1594-0079	EASEMENT by GREVILLA and 172ND	Rootball intruding from lateral	Hydrojet (Cleaned 6/18/08)
38	413D	1593-0639	1593-0640	HAWTHORNE BV	Rootball intruding from lateral	Hydrojet (Cleaned 6/16/08)
39	4132	1593-0632	1593-NORT	GREVILLEA AV	Medium roots	Hydrojet (Cleaned 6/16/08)
40	4132	1594-0046	1594-0047	170TH ST	Medium roots	Hydrojet (Cleaned 6/13/08)
42	4131	1594-0118	1594-0119	167TH ST	Medium roots	Hydrojet (Cleaned 6/17/08)
43	4131	1593-0598	1593-0599	164TH ST	Grease deposits	Hydrojet (Cleaned 6/17/08)
44	4131	1593-0360	1593-0359	ALLEY Between GREVILLEA AV and BURIN AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/17/08)
45	4131	1593-0465	1593-0464	153RD PL	Rootball intruding from lateral	Hydrojet (Cleaned 6/12/08)
46	4131	1593-0300	1593-0301	165TH ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/18/08)
47	4131	1593-0301	1593-0302	165TH ST	Rootball at joint	Hydrojet (Cleaned 6/18/08)
48	4131	1593-0656	1593-0657	160TH ST	Rootball at joint and intruding from lateral	Hydrojet (Cleaned 6/12/08)
49	4131	1594-0013	1594-0012	167TH ST	Grease deposits	Hydrojet (Cleaned 6/17/08)
50	4131	1594-0099	1594-0098	ALLEY Between FREEMAN AV and EASTWOOD AV	Medium roots	Hydrojet (Cleaned 6/17/08)
51	4131	1594-0020	1594-0021	168TH ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/17/08)
52	412E	1593-0587	1593-0583	INGLEWOOD AV	Grease deposits	Hydrojet on a 5-Month Periodic (Last cleaned 3/25/08)
53	4129	1593-0615	1593-0616	164TH ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/18/08)
54	4126	1594-0028	1594-0011	HAWTHORNE BV	Grease deposits	Hydrojet (Cleaned 1/25/07)
55	4125	1594-0036	1594-0022	CONDON AV	Rootball intruding from lateral and grease deposits	Hydrojet on a 4-Month Periodic (Last cleaned 3/12/08)
56	4122	1593-0604	1593-0605	165TH ST	Rootball intruding from lateral and grease deposits	Hydrojet (Cleaned 6/13/08)
57	4121	1593-0363	1593-0390	MARINE AV	Debris	Hydrojet (Cleaned 6/17/08)
58	4121	1593-0400	1593-0401	FIRMONA AV	Grease deposits	Hydrojet (Cleaned 6/17/08)
59	4121	1593-0304	1593-0440	INGLEWOOD AV	Grease deposits	Hydrojet on a 90-Day Periodic (Last cleaned 3/7/08)
60	411D	1594-0153	1594-0154	EASEMENT BY 170TH and 171ST ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/17/08)
61	4112	1594-0039	1594-0040	EASEMENT BETWEEN 169TH Aand 170TH ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/16/08)
62	4111	1593-0540	1593-0454	HAWTHORNE BV	Debris	CSMD repaired trough (06/16/08).
63	4100	1593-0408	1593-0407	MARINE AV	High water level	Hydrojet on a 90-Day Periodic (Last cleaned 4/25/08)
64	4100	1593-0364	1593-0363	ALLEY Between GREVILLEA AV and MUNSEL AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/17/08)
65	4100	1593-0291	1593-0290	163RD ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/16/08)
66	4100	1594-0044	1594-SOUT	EASEMENT by 170TH and GREVILLEA AVE.	Rootball intruding from lateral	Hydrojet (Cleaned 6/17/08)

The following line segments received a Quick Maintenance Rating of above 4000 due to the observation of root ball inside the lateral connection. CSMD does not maintain lateral lines; it is the responsibility of the parcel owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. Therefore, these lines were not included on the Priority List above identified with maintenance deficiencies in need of immediate attention by CSMD.

Item No.	QMR	Start MH	End MH	Street	Observation
1	4432	1593-0467	1593-0466	153RD PL	Root ball in lateral connection.
2	411C	1594-0069	1594-0068	172ND ST	Root ball in lateral connection.
3	411B	1593-0392	1593-0391	KINGSDALE AV	Root ball in lateral connection.
4	4117	1593-0389	1593-0388	ALLEY by 149th and KINGSDALE	Root ball in lateral connection.
5	4117	1594-0058	1594-0057	171ST ST	Root ball in lateral connection.
6	4113	1593-0401	1593-0402	FIRMONA AV	Root ball in lateral connection.
7	4112	1593-0292	1593-0293	163RD ST	Root ball in lateral connection.
8	4111	1593-0590	1593-0589	161ST ST	Root ball in lateral connection.
9	4111	1593-0385	1593-0384	ALLEY off FIRMONA N of 147th	Root ball in lateral connection.
10	4111	1593-0373	1593-0372	ALLEY off MANSEL S of 147th	Root ball in lateral connection.
11	4111	1593-0617	1593-0618	163RD ST	Root ball in lateral connection.
12	4100	1593-0384	1593-0377	ALLEY of KINGSDALE N of 147th	Root ball in lateral connection.
13	4100	1593-0613	1593-0612	164TH ST	Root ball in lateral connection.





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July 8, 2008

# ENCLOSURE 3:

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

#### ENCLOSURE 3

#### QUICK STRUCTURAL RATING PRIORITY LIST - CITY OF LAWNDALE (Y0TV0607A)

#### As of 03/26/07

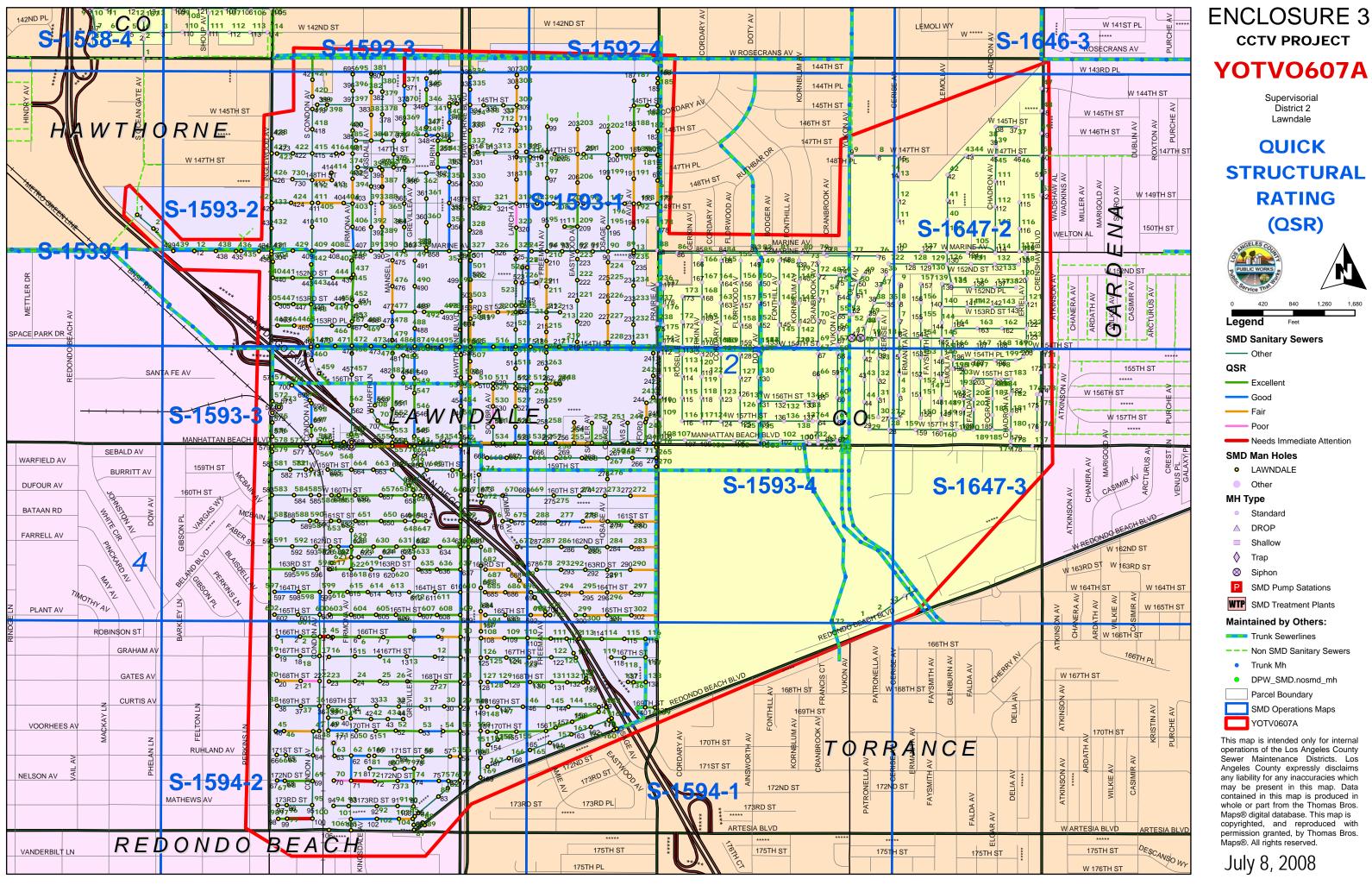
ltem No.	Section No	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	19	5331	1594-0099	1594-0100		with soil visible; 226'	Point repair 264'-272'; Lining: MH to MH after point repair	8
2	37	5242	1594-0003	1594-0004	166TH ST	Hole with concrete visible: 59' and 65'; multiple cracks	Lining: MH to MH	331
3	38	5238	1593-0706	1593-0555	MANHATTAN BEACH BV	Pipe Collapse: 195'	Emergency Project (Point Repair); completed Sept 2007	Completed
4	307	5141	1593-0200		OSAGE AV	Hole with soil visible: 290'; multiple cracks	Linining: MH to MH	378
5	322	5141	1594-0076A	1594-0077	172ND ST	Hole with soil visible: 85'; Broken : 134'	Clean and retelevise. Re-assess defects.	-
6	377	5137	1593-0194	1593-0089	AVIS AV	Hole under concrete blanket: 237' - 241'	Pipe material missing. Pipe segment encased in concrete. Structural integrity intact. No action needed.	-
7	378	5137	1593-0398	1593-0397	145TH ST	Broken with soil visible: 245'; muliple cracks	Lining: MH to MH	189
8	380	5135	1593-0192	1593-0194	AVIS AV	Broken with soil visible: 266' - 270'; multiple cracks	Pipe encased in concrete. Structural integrity intact. No action needed.	-
9	398	5132	1593-0556	1593-0557	MANHATTAN BEACH BV	Hole with concrete visible: 78'; multiple cracks and fractures	Pipe encased in concrete. Structural integrity intact. No action needed.	-
10	400	5131	1593-0432	1593-0431	INGLEWOOD AV	Broken with soil visible: 202' & 208'; multiple cracks	Lining: MH to MH	225
11	446	5123	1593-0371	1592-TRNK	ALLEY between Grevillea and Mansel ST	Joint offset and hole with soil visible: 259'	No action needed. CSMD will monitor at this time.	-
12	462	5122	1593-0596		163RD ST	Hole at 12 o'clock position: 95'	Structural integrity intact. No action needed.	-
13	468	5121	1593-0540	1593-0454	HAWTHORNE BV	Hole with soil visible at end MH	CSMD repaired trough on 6/18/08.	-
14	471	5112	1593-0187	1593-0007	AVIS AV	Hole with soil visible at lateral: 199'	Responsibility of the property-owner. No action needed.	-
15	519	5111	1593-0450	1593-0449	153RD ST	Hole with soil visible @ start MH.	CSMD repaired MH base on 6/18/08.	-
16	630	5100	1593-0623	1593-0624	Between 162ND and 163RD ST	Hole at 10 - 12 o'clock at joint (gasket exposed): 117'	Structural integrity intact. No action needed.	-
17	648	5100	1594-0071	1594-0072	172ND ST	Broken with soil visible: 11'	Structural integrity intact. No action needed.	-
18	684	4435	1593-0642	1593-0714	MANHATTAN BEACH BV	Multiple fractures and cracks	Structural integrity intact. No action needed.	-
19	814	4232	1594-0071	1594-0070	172ND ST	Broken, joint offsets and multiple fractures: 193' - 215'	Lining: MH to MH	236
20	827	4231	1594-0028	1594-0011	HAWTHORNE BV	Broken: 84'; multiple fractures	Structural integrity intact. No action needed.	-
21	1021	413B	1594-0153	1594-0154	Between 170TH and 171ST ST	Multiple fractures and cracks	Lining: MH to MH	348

#### ENCLOSURE 3

## QUICK STRUCTURAL RATING PRIORITY LIST - CITY OF LAWNDALE (Y0TV0607A)

#### As of 03/26/07

ltem No.	Section No	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
22	1043	413B	1593-0530	1593-0531	SOMBRA AV	Hole at joint with gasket showing: 53'; multiple cracks	Structural integrity intact. No action needed.	-
23	1049	4135	1593-0319	1593-0320	LARCH AV	Hole with soil visible: 104'; multiple cracks	Structural integrity intact. No action needed.	-
24	1062	4132	1594-0021	1594-0022	168TH ST	Broken with soild visible: 239'; multiple cracks	Lining: MH to MH	236
25	1064	4124	1593-0330	1593-0329	HAWTHORNE BV	Hole with soil visible: 98'; multiple cracks	Lining: MH to MH	342
26	1079	4118	1593-0429	1593-0409	MARINE AV	Broken pipe: 257'; multiple cracks	Lining: MH to MH	192



# ENCLOSURE 4:

Infrastructure Inspection Reports for Grades 4 and 5



		=	<u> </u>	-	tion report	section nur		
	ate: 7/2007		.O.#: <b>V0607A</b>	Weather: 1 Dry				PSR: <b>73269</b>
	pe Length: 9.00		Customer .AW	: System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting		Map Grid #: <b>1593</b>
Street:	LARCH AV			Flow Control: N	Not Controlled	Start MH:	1593-031	9
City:	LAW			Year Renewed		End MH:	1593-032	0
	ode: C Light Hig				312-002	pipe length:	320.6 ft	
Reason for Use of Sev		F Routine		nent	Dia/Height: C Circu Material: VCP Vit	lar 8" rified Clay Pipe	Pipe Length:	4.0
Drain. Area		SS Sanita 0319/1593	•	93	Lining Method: Category:			
Remark::					Calegory.			
1:	:660 pos	ition	code	observation		grade	MPEG	photo
1593-	-0319	0.00	AMH	Manhole, within 8 inch: NO, F	Remarks: 1593-0319		00:00:39	545
		0.50 <b>S1</b>	MWLS	Water Level Sag, 25 %, withi	n 8 inch: NO, Start	M 2	00:01:24	546
	2	2.10	СМ	Crack Multiple, from 7 to 5 of	clock, within 8 inch: YES	S 3	00:02:36	547
	2	2.10	JOM	Joint Offset Medium, within 8	inch: NO	S 1	00:03:11	548
	4	6.20 <b>F1</b>	MWLS	Water Level Sag, 25 %, withi	n 8 inch: NO, End	M 2	00:04:05	549
	4	6.40	MWL	Water Level, 15 %, within 8 in	nch: NO		00:04:28	550
	7	6.30	TFA	Tap Factory Active, at 9 o'clo	ck, 6", within 8 inch: NO		00:05:19	551
	g	0.90	TFC	Tap Factory Capped, at 3 o'c	lock, 6", within 8 inch: NO		00:06:02	552
<b>\$</b>	10	4.80	н	Hole, from 2 to 4 o'clock, with	nin 8 inch: YES	S 4	00:06:47	553
	10	4.80	СМ	Crack Multiple, from 7 to 5 of	clock, within 8 inch: YES	S 3	00:07:26	554
<b>S</b>	13	4.20	TFA	Tap Factory Active, at 9 o'clo	ck, 6", within 8 inch: NO		00:08:33	555
	14	9.10	TFA	Tap Factory Active, at 3 o'clo	ck, 6", within 8 inch: NO		00:9:10	556
'	17	6.10	TFA	Tap Factory Active, at 9 o'clo	ck, 6", within 8 inch: NO		00:10:04	557
	19	94.80	TFA	Tap Factory Active, at 3 o'clo	ck, 6", within 8 inch: NO		00:10:53	558
	22	2.20	TFA	Tap Factory Active, at 9 o'clo	ck, 6", within 8 inch: NO		00:11:53	559
	24	4.90	TFA	Tap Factory Active, at 3 o'clo	ck, 6", within 8 inch: NO		00:12:47	560
	25	5.80	TFA	Tap Factory Active, at 9 o'clo	ck 6" within 8 inch: NO		00:13:21	561



### **Inspection report**

							Inspectio	on report				
	Date: 01/17/2007				0.#: <b>/0607A</b>		Weather: 1 Dry	Surveyed By: Gilbert Contrer		ection nu 19	mber:	PSR: <b>73269</b>
Т	Total Pipe Length: Survey Cust 329.00 LAW					er: System Owner: Clean Date:		F	Pre-Cleaned: J Jetting		Map Grid #: <b>1593</b>	
	1:660	ро	sition		code	observatio	on			grade	MPEG	photo
		2	278.00	<b>S</b> 2	MWLS	Water Lev	el Sag, 25 %, within 8	inch: NO, Start		M 2	00:14:43	562
8			286.00	F2	MWLS	Water Lev	el Sag, 25 %, within 8	inch: NO, End		M 2	00:15:16	563
<b>《</b>			288.80		TBA	Tap Break	-in Active, at 9 o'clock	, 6", within 8 inch: NO	С		00:15:51	564
<b>%</b>			288.80		DAGS		Attached Grease, from	8 to 10 o'clock, 10 %	6, within 8 inch	: M 2	00:16:06	565
	1593-0320		289.10		DAGS		Attached Grease, from	9 to 3 o'clock, 15 %,	, within 8 inch:	М З	00:16:34	566
			291.00		TFA	NO Tap Factor	ry Active, at 3 o'clock,	6", within 8 inch: NO	1		00:17:08	567
			291.00		RFL	Roots Fine	e Lateral, at 3 o'clock,	within 8 inch: NO		M 1	00:17:21	568
			291.00		DAGS		Attached Grease, from	1 to 4 o'clock, 15 %,	, within 8 inch:	М З	00:18:05	569
			291.00		СМ	NO Crack Mult	tiple, from 1 to 5 o'cloo	ck, within 8 inch: YES	3	S 3	00:18:41	570
			291.00		RFJ	Roots Fine	e Joint, from 1 to 4 o'c	lock, within 8 inch: Yl	ES	M 1	00:18:59	571
			294.80	<b>S</b> 3	MWLS	Water Lev	el Sag, 25 %, within 8	inch: NO, Start		M 2	00:19:37	572
			<u>808.80</u>		DAGS		Attached Grease, from	7 to 5 o'clock, 10 %,	, within 8 inch:	M 2	00:20:32	573
			308.80		RFJ	YES Roots Fine	e Joint, from 1 to 3 o'c	lock, within 8 inch: Yl	ES	M 1	00:20:48	574
			308.90		СМ	Crack Mult	tiple, from 8 to 4 o'cloo	ck, within 8 inch: YES	3	S 3	00:21:03	575
			314.00		TFA	Tap Factor	ry Active, at 9 o'clock,	6", within 8 inch: NO	)		00:21:56	576
			314.00		RFL	Roots Fine	e Lateral, at 9 o'clock,	within 8 inch: NO		M 1	00:22:09	577
			316.80		TFC	Tap Factor	ry Capped, at 3 o'cloc	k, 6", within 8 inch: N	Ю		00:22:42	578
			318.10		СМ	Crack Mult	tiple, from 7 to 5 o'cloo	ck, within 8 inch: YES	3	S 3	00:23:07	579
			318.10		RFJ	Roots Fine	e Joint, from 2 to 4 o'c	lock, within 8 inch: YI	ES	M 1	00:23:23	580
			320.50	F3	MWLS	Water Lev	el Sag, 25 %, within 8	inch: NO, End		M 2	00:23:56	581
		3	320.60		AMH	Manhole, v	within 8 inch: NO, Ren	narks: 1593-0320			00:24:34	582
	QSR		QMR			SPR	MPR	OPR	SPRI		MPRI	OPRI
	4135		322C			20	53	73 mdh // nage: 2	2.86		1.89	2.09



				Inspec	tion report			
	Date: 01/19/2007	P.O.#: <b>Y0TV0607A</b>		Weather: 1 Dry	Surveyed By: Gilbert Contreras	section nur 37	mber:	PSR: 73393
То	otal Pipe Length: 331.00		/ Customei LAW		Clean Date:	Pre-Cleaned: J Jetting		Map Grid #: <b>1593</b>
Stree	et: AVIS AV			Flow Control:	N Not Controlled	Start MH:	1593-019	92
City:	LAW			Year Renewed		End MH:	1593-019	94
Loca	tion Code: C Light I	lighway		Tape/Media #:	G312-004	pipe length:	349.8 ft	
	son for inspection:		e Assessn	nent	Dia/Height: C Circu Material: VCP Vi	ılar 8" trified Clay Pipe ∣	Pipe Length:	3.0
	of Sewer: n. Area:	SS Sanita	ary 3-0194/15	93	Lining Method:			
Rem		0102,100	0 0104/10		Category:			
	1:627 p	osition	code	observation		grade	MPEG	photo
	1593-0192							
		0.00	AMH	Manhole, within 8 inch: NO,	Remarks: 1593-0192		00:00:41	1011
		0.00	MWL	Water Level, 15 %, within 8	inch: NO		00:01:09	1012
		4.00	CL	Crack Longitudinal, at 3 o'cle	ock, within 8 inch: YES	S 2	00:01:35	1013
		4.00	JOM	Joint Offset Medium, within a	8 inch: NO	S 1	00:02:08	1014
		4.00	СМ	Crack Multiple, from 9 to 5 o	clock, within 8 inch: YES	S 3	00:02:35	1015
		10.40	MWL	Water Level, 10 %, within 8	inch: NO		00:03:37	1016
		40.50	MWL	Water Level, 20 %, within 8	inch: NO		00:04:36	1017
		47.40	MWL	Water Level, 10 %, within 8	Water Level, 10 %, within 8 inch: NO		00:04:56	1018
		73.30	TFA	Tap Factory Active, at 3 o'cle	ock, 6", within 8 inch: NO		00:05:58	1019
		82.20	TFA	Tap Factory Active, at 9 o'cl	ock, 6", within 8 inch: NO		00:06:37	1020
\$		122.00	TFA	Tap Factory Active, at 3 o'cle	ock, 6", within 8 inch: NO		00:08:04	1021
		128.70	CL	Crack Longitudinal, at 3 o'cl	ock, within 8 inch: YES	S 2	00:08:41	1022
		130.00	FL	Fracture Longitudinal, at 4 o	'clock, within 8 inch: YES	S 3	00:09:19	1023
		130.00	СМ	Crack Multiple, from 8 to 2 o	'clock, within 8 inch: YES	S 3	00:10:07	1024
		134.00	TFA	Tap Factory Active, at 9 o'cl	ock, 6", within 8 inch: NO		00:10:48	1025
		136.60	TFA	Tap Factory Active, at 3 o'cl	, ,		00:11:14	1026
		185.70	TFA	Tap Factory Active, at 3 o'cl	ock, 6", within 8 inch: NO		00:13:07	1027
		190.80	СМ	Crack Multiple, from 8 to 4 o	clock, within 8 inch: YES	S 3	00:14:01	1028
		203.80	TFA	Tap Factory Active, at 9 o'cl	ock, 6", within 8 inch: NO		00:14:52	1029
		234.40	TFA	Tap Factory Active, at 3 o'cle	ock, 6", within 8 inch: NO		00:16:06	1030
		236.90	TFA	Tap Factory Active, at 9 o'cle	ock, 6", within 8 inch: NO		00:16:39	1031
		250.80 <b>S1</b>	MWLS	Water Level Sag, 25 %, with	in 8 inch: NO, Start	M 2	00:17:25	1032



# **Inspection report**

	Date: 01/19/2007			0.#: <b>/0607A</b>	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section nur 37	nber:	PSR: <b>73393</b>
T	otal Pipe Length: 331.00	Su		Customer AW	: System Owner: Clean Date: F LAW		Pre-Clear J Jettin		Map Grid #: <b>1593</b>
	1:627	position		code	observation		grade	MPEG	photo
K		266.80	<b>S</b> 2	HVV	Hole Void Visible, from 9 to 5 o'	clock, within 8 inch: YES, Start	S 5	00:19:41	1033
<b>%</b>	266.80			DSC	Deposits Settled Compacted, fr NO, Remarks: cement	om 4 to 6 o'clock, 15 %, within 8 i	nch: M 3	00:23:17	1034
<b>%</b>		269.20	F2	HVV	Hole Void Visible, from 9 to 5 o'	clock, within 8 inch: YES, End	S 5	00:24:06	1035
2		269.60		СС	Crack Circumferential, from 3 to	6 o'clock, within 8 inch: YES	S 1	00:24:51	1036
		273.30	F1	MWLS	Water Level Sag, 25 %, within 8	3 inch: NO, End	M 2	00:25:28	1037
		273.40		MWL	Water Level, 15 %, within 8 inch	n: NO		00:25:58	1038
		285.50		СМ	Crack Multiple, from 8 to 2 o'clo	ck, within 8 inch: YES	S 3	00:26:37	1039
		286.40		TFA	Tap Factory Active, at 3 o'clock	, 6", within 8 inch: NO		00:27:08	1040
	1593-0194	292.00		TFD	Tap Factory Defective, at 9 o'clo multiple cracks	ock, 6", within 8 inch: NO, Remarl	ks: M 2	00:27:59	1041
	$\sim$	349.80		AMH	Manhole, within 8 inch: NO, Rei	marks: 1593-0194		00:29:51	1042

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI			
5135	3127	26	17	43	2.6	2.12	2.39			
	WinCanEvnort mdb // nage: 2									



					Inspecti	ion report				
	Date: 01/19/2007	,	P.O.# Y0TV060		Weather: 1 Dry	Surveyed By: Gilbert Contrer		ction number: 38		PSR: <b>73537</b>
Тс	otal Pipe Length 304.00	:: Sur	rvey Cus LAW		System Owner: LAW	Clean Date:		-Cleai <b>Jettir</b>		Map Grid #: <b>1593</b>
Stree	et: AVIS	S AV			Flow Control: N	Not Controlled	Start MH	:	1593-019	)4
City:	LAW	ı			Year Renewed		End MH:		1593-008	39
Loca	tion Code: C Lig	ght Highway			Tape/Media #: G3	12-004	pipe leng	th:	300 ft	
Reas	son for inspectio	on: <b>F Rou</b>	itine Ass	sessme	nt	0 -	Circular 8"			
Use	of Sewer:	SS Sa	initary			Material: VC	P Vitrified Clay	Pipe	Pipe Length:	3.0
Drair	n. Area:	0194/1	1593-008	89/1593		Category:				
Rem	ark::									
	1:750	position	C	ode o	bservation		gı	ade	MPEG	photo
		0.00	A	MH M	lanhole, within 8 inch: NO, Re	emarks: 1593-0194			00:00:42	1043
	1593-0194	5.00	Μ	IVVL V	ater Level, 15 %, within 8 inc	ch: NO			00:01:25	1044
		19.00	Т	FFA T	ap Factory Active, at 9 o'clocl	k, 6", within 8 inch: NO			00:02:03	1045
		21.70	т	IFA T	ap Factory Active, at 3 o'clocl	k, 6", within 8 inch: NO			00:02:31	1046
		35.00	Т	ГВА Т	ap Break-in Active, at 3 o'cloo	ck, 4", within 8 inch: NC	)		00:03:14	1047
		67.80	т	IFA T	ap Factory Active, at 9 o'clocl	k, 6", within 8 inch: NO			00:04:41	1048
		68.00		FC F	racture Circumferential, from	8 to 10 o'clock, within	B inch: NO	52	00:05:02	1049
		89.10	т	IFA T	ap Factory Active, at 3 o'clocl	k. 6". within 8 inch: NO			00:05:59	1050
		115.70			rack Longitudinal, at 9 o'clocl		9	32	00:07:09	1051
"		115.90			rack Circumferential, from 8 t			51	00:07:49	1052
		116.60			ap Factory Active, at 9 o'clock				00:08:27	1053
8		153.50			ap Factory Active, at 3 o'clock				00:09:46	1054
<b>«</b>										
"		165.40			ap Factory Active, at 9 o'clocl				00:10:34	1055
		237.90			ole Void Visible, from 8 to 3 c			55	00:13:51	1056
		237.90	(	CC C	rack Circumferential, from 9 t	to 11 o'clock, within 8 i	nch: NO S	51	00:14:32	1057
		238.80	(	CM C	rack Multiple, from 3 to 6 o'cl	ock, within 8 inch: YES	S	53	00:15:28	1058
		241.60	F1 ⊦	HVV H	ole Void Visible, from 8 to 3 c	o'clock, within 8 inch: Y	ES, End S	S 5	00:16:22	1059
		265.50	M	IMC N	aterial Change, within 8 inch	: NO, Remarks: cast-ir	on pipe		00:18:14	1060
		265.50	<b>S2</b> S		urface Corrosion Metal Pipe, tart	from 7 to 5 o'clock, wit	hin 8 inch: NO,	S 3	00:18:46	1061
		271.50	<b>F2</b> S	SCP S	urface Corrosion Metal Pipe,	from 7 to 5 o'clock, wit	hin 8 inch: NO,	53	00:19:35	1062
		278.60	<b>S3</b> S	SCP S	nd urface Corrosion Metal Pipe,	from 7 to 5 o'clock, wit	hin 8 inch: NO,	53	00:20:56	1063
		293.00	<b>F3</b> S		tart urface Corrosion Metal Pipe,	from 7 to 5 o'clock, wit	hin 8 inch: NO,	53	00:21:54	1064
		293.00	M		nd aterial Change, within 8 inch	: NO, Remarks: vcp			00:22:30	1065
	1593-0089	300.00			anhole, within 8 inch: NO, Re	· ·			00:23:30	1066
	QSR	QMR		SF	R MPR	OPR	SPRI		MPRI	OPRI
	5137	0000		3		32	2.67		0	2.67



				Inspecti	on report			
	Date: 02/27/2007		P.O.#: <b>TV0607A</b>	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section nur 307	nber:	PSR: <b>84535</b>
Т	otal Pipe Length: 378.00		y Custome		Clean Date: 02/19/2007	Pre-Clear J Jettin		Map Grid #: 1593
Stre	et: ALLEY			Flow Control: N N	lot Controlled	Start MH:	1593-037	71
City:	LAW			Year Renewed		End MH:	1592-TR	NK
Loca	ation Code: H Alley			Tape/Media #: G3	12-025	pipe length:	259.3 ft	
Rea	son for inspection:	F Routin	e Assessr	nent	Dia/Height: C Circula Material: VCP Vitr	ar 8" ified Clay Pipe ∣	Dina Longth:	
	of Sewer:	SS Sanit	-		Lining Method:	ined Clay Pipe	-ipe Lengin.	
	n. Area:	0371/159	93-TRNK/1	592	Category:			
Rem	nark::							
	1:594 po	osition	code	observation		grade	MPEG	photo
	1593-0371	0.00	AMH	Manhole, within 8 inch: NO, Re	marks: 1593-0371		00:00:40	6477
		5.00	MWL	Water Level, 10 %, within 8 inc	h: NO		00:01:52	6478
		05.00					00.00.17	0.170
		25.90	TBA	Tap Break-in Active, at 12 o'clo	ock, 6°, within 8 inch: NO		00:02:47	6479
		79.00	DAGS	Deposits Attached Grease, fror	n 8 to 4 o'clock, 5 %, within 8	inch: M 2	00:04:27	6480
		80.70	TFA	Tap Factory Active, at 12 o'cloc	ck, 6", within 8 inch: NO		00:05:12	6481
		110.10	RFJ	Roots Fine Joint, from 8 to 11 c	o'clock, within 8 inch: YES	M 1	00:06:35	6482
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		124.40	DAGS	Deposits Attached Grease, from	m 4 to 8 o'clock, 10 %, within	8 inch: M 2	00:07:37	6483
<b>&gt;</b>		129.00	TFA	NO Tap Factory Active, at 12 o'cloc	ck, 6", within 8 inch: NO		00:08:34	6484
		164.80	JOM	Joint Offset Medium, within 8 in	nch: NO	S 1	00:11:16	6485
		164.80	CL	Crack Longitudinal, at 12 o'cloc	ck, within 8 inch: YES	S 2	00:11:46	6486
<u>"</u>		164.80	FC	Fracture Circumferential, from	4 to 7 o'clock, within 8 inch: \	ÆS S2	00:10:37	6487
		170.60	MWL	Water Level, 15 %, within 8 inc	h: NO		00:13:00	6488
		170.70	OBI	Obstacle Intruding Thru Wall, fi	rom 1 to 6 o'clock, 20 %, with	in 8 inch: M 3	00:14:17	6489
		177.60	MWL	NO, Remarks: metal bar Water Level, 10 %, within 8 inc	h: NO		00:15:21	6490
		180.10	DAGS	Deposits Attached Grease, fror		8 inch: M 2	00:15:57	6491
		181.20	TFA	NO Tap Factory Active, at 12 o'cloc			00:16:34	6492
		183.20	MGO	General Observation, within 8 i		מו	00:27:26	6493
		183.30 <b>S</b> 1		camera to clean Water Level Sag, 25 %, within		M 2	00:16:54	6494
		225.30 <b>F</b> 1		Water Level Sag, 25 %, within a		M 2	00:21:01	6495
						IVI Z		
		225.30	MWL	Water Level, 15 %, within 8 inc			00:21:16	6496
		<u>232.20</u> <b>S</b> 2	2 MWLS	Water Level Sag, 20 %, within	8 inch: NO, Start	M 2	00:22:01	6497



## **Inspection report**

e Length:	P.O.#: Y0TV0607A : Survey Customer: LAW		1 Dry	Surveyed By: Gilbert Contreras	section number: <b>307</b>		PSR: 84535
3.00			r: System Owner: Clean Date: LAW 02/19/2007		Pre-Cleaned: J Jetting		Map Grid #: <b>1593</b>
594 ро	osition	code	observation		grade	MPEG	photo
2	257.40	TFA	Tap Factory Active, at 12 o'cloc	k, 6", within 8 inch: NO		00:30:59	6498
	259.20	JOL	Joint Offset Large, within 8 inch	: NO	S 2	00:31:27	6499
2	259.20	HSV	Hole Soil Visible, from 10 to 2 o	clock, within 8 inch: YES	S 5	00:32:12	6500
	259.30 <b>F2</b>	MWLS	Water Level Sag, 20 %, within 8	inch: NO, End	M 2	00:34:45	6501
2	259.30	MSA	Abandoned Survey, within 8 inc large o	h: NO, Remarks: camera bloo	ked by	00:35:52	6502
		257.40 259.20 259.20	257.40 TFA 259.20 JOL 259.20 HSV 259.30 F2 MWLS	257.40TFATap Factory Active, at 12 o'cloc259.20JOLJoint Offset Large, within 8 inch259.20HSVHole Soil Visible, from 10 to 2 o259.30F2MWLS259.30MSAAbandoned Survey, within 8 inch	257.40TFATap Factory Active, at 12 o'clock, 6", within 8 inch: NO259.20JOLJoint Offset Large, within 8 inch: NO259.20HSVHole Soil Visible, from 10 to 2 o'clock, within 8 inch: YES259.30F2MWLS259.30Water Level Sag, 20 %, within 8 inch: NO, End259.30MSAAbandoned Survey, within 8 inch: NO, Remarks: camera block	257.40TFATap Factory Active, at 12 o'clock, 6", within 8 inch: NO259.20JOLJoint Offset Large, within 8 inch: NO\$ 2259.20HSVHole Soil Visible, from 10 to 2 o'clock, within 8 inch: YES\$ 5259.30F2MWLSWater Level Sag, 20 %, within 8 inch: NO, EndM 2259.30MSAAbandoned Survey, within 8 inch: NO, Remarks: camera blocked by	257.40TFATap Factory Active, at 12 o'clock, 6", within 8 inch: NO00:30:59259.20JOLJoint Offset Large, within 8 inch: NOS 200:31:27259.20HSVHole Soil Visible, from 10 to 2 o'clock, within 8 inch: YESS 500:32:12259.30F2MWLSWater Level Sag, 20 %, within 8 inch: NO, EndM 200:34:45259.30MSAAbandoned Survey, within 8 inch: NO, Remarks: camera blocked by00:35:52

			Win Con Export	mdh // nagai 2			
5123	3127	12	18	30	2.4	2	2.14
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI



				Inspecti	ion report				
	Date: 02/28/2007		.O.#: V0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section nu 322		PSR: <b>72925</b>	
Т	otal Pipe Length: 337.00		Customer: AW	System Owner: LAW	Clean Date: 02/21/2007	Pre-Clea J Jetti		Map Grid #: <b>1594</b>	
Stre	et: HAWTHO	RNE BV		Flow Control: NI	Not Controlled	Start MH:	1594-002	28	
City	LAW			Year Renewed		End MH:	MH: <b>1594-0011</b>		
_0C	ation Code: <b>B Main H</b>	ighway - Su	burban/Ru	ral Tape/Media #: G3	I Tape/Media #: G312-026 pipe le				
	son for inspection:	F Routine	Assessme	ent	Dia/Height: C Circo Material: VCP V	ular 8" trified Clay Pipe	Pine Length:		
	of Sewer:	SS Sanita	-		Lining Method:	amed oldy i ipe	r ipe Lengui.		
	n. Area: nark::	0028/1594	1-0011/1594	•	Category:				
Ren	ак								
	1:850 pc	osition	code	observation		grade	MPEG	photo	
	~	0.00	AMH	Manhole, within 8 inch: NO, Re	emarks: 1594-0028		00:00:39	6762	
		6.00	MWL	Nater Level, 15 %, within 8 inc	ch: NO		00:01:25	6763	
	1594-0028	19.30		Deposits Attached Grease, fro	m 4 to 8 o'clock, 10 %, with	in 8 inch: M 2	00:02:11	6764	
		47.10		NO Fap Factory Capped, at 9 o'clo	ock, 6", within 8 inch: NO		00:03:31	6765	
		79.70	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO			00:05:04	6766	
		83.10 <b>S1</b>	MWLS	Water Level Sag, 30 %, within	8 inch: NO, Start	M 2	00:05:37	6767	
		83.10	DAGS	Deposits Attached Grease, fro	m 8 to 4 o'clock, 5 %, withir	8 inch: M 2	00:05:52	6768	
		84.20		NO Hole, from 2 to 3 o'clock, withir	n 8 inch: YES	S 3	00:06:48	6769	
		84.20	B	Broken, from 3 to 5 o'clock, wit	thin 8 inch: YES	S 4	00:07:12	6770	
		93.70		Camera Underwater, within 8 i		M 4	00:08:24	6771	
		96.20	FM	Fracture Multiple, from 7 to 5 c	o'clock, within 8 inch: YES	S 4	00:09:30	6772	
		96.20	RFJ	Roots Fine Joint, from 7 to 9 o	'clock, within 8 inch: YES	M 1	00:10:03	6773	
<b>"</b>		97.10	MWL	Nater Level, 15 %, within 8 ind	ch: NO		00:10:33	6774	
\$		97.10 <b>F1</b>	MWLS	Nater Level Sag, 30 %, within	8 inch: NO, End	M 2	00:10:44	6775	
		109.80	TFC	Fap Factory Capped, at 9 o'clo	ock, 6", within 8 inch: NO		00:11:38	6776	
		142.90		Tap Break-in Active, at 9 o'clo			00:12:58	6777	
		145.60		Tap Factory Capped, at 9 o'clo			00:13:33	6778	
		177.00		Roots Fine Joint, from 9 to 10	o'clock. within 8 inch: YES	M 1	00:14:48	6779	
		178.60		Tap Factory Capped, at 9 o'clo			00:15:32	6780	
		187.70		Tap Break-in Active, at 9 o'clo	, ,		00:16:20	6781	
		202.00		Tap Factory Capped, at 9 o'clo			00:17:06	6782	
		237.90		Tap Break-in Active, at 9 o'clo			00:18:38	6783	
		270.80		Tap Factory Capped, at 9 o'clo	, ,		00:20:09	6784	
		303.70		Tap Factory Capped, at 9 o'clo			00:21:27	6785	
								6786	
	1594-0011	<u>341.30</u>		Manhole, within 8 inch: NO, Re	emaine. 1334-0011		00:23:08	0000	
	QSR	QMR	S	PR MPR	OPR	SPRI	MPRI	OPRI	
	4231	4126		11 18	29	3.67	2	2.42	



			Inspectio	on report			
Date: 03/08/2007	P.O.#: <b>Y0TV0607</b> A		Weather: 1 Dry	Surveyed By: Gilbert Contreras	section nur 377	mber:	PSR: <b>72974</b>
Total Pipe Length: <b>317.00</b>	Survey Custon	ner:	System Owner: LAW	Clean Date: 03/08/2007	Pre-Clear J Jettin		Map Grid #: <b>1593</b>
Street: MANHA City: LAW	TTAN BEACH BV		Flow Control: N No Year Renewed		Start MH: End MH:	1593-064 1593-071	
Location Code: B Main I	• •		Tape/Media #: G312		pipe length:	290.3 ft	
Reason for inspection:	F Routine Asses	sment		Dia/Height: C Circular Material: VCP Vitrifi	8" ed Clay Pipe	Pipe Length:	
Use of Sewer: Drain. Area:	SS Sanitary 0642/1593-0714/ <sup>-</sup>	1593		Lining Method:			
Remark::	- 0 - 0			Category:			
1:561 p	position code	obs	ervation		grade	MPEG	photo
	0.00     AMH       5.00     MWI       16.20     FM       16.30     B       16.30     D       17.30     FL       17.30     FL       17.30     FL       18.50     CL       18.50     CL       18.50     FC       59.00     TFC       67.50     TFC       108.00     CM       112.10     TFC	- Wate Frace Brok Defe Frace Tap Crace Tap Tap Tap Tap Crace Tap	hole, within 8 inch: NO, Ren er Level, 5 %, within 8 inch: ture Multiple, from 7 to 5 o'c en, from 3 to 4 o'clock, within armed, 5 %, within 8 inch: NO ture Longitudinal, at 3 o'clock factory Active, at 3 o'clock, ek Longitudinal, at 7 o'clock, ek Longitudinal, at 7 o'clock, ek Longitudinal, at 8 o'clock, ek Longitudinal, at 8 o'clock, ek Longitudinal, at 8 o'clock, ek Longitudinal, at 9 o'clocl Factory Capped, at 9 o'clocl Factory Capped, at 9 o'clocl Factory Active, at 3 o'clock, ek Multiple, from 7 to 11 o'cloc Factory Capped, at 9 o'clock factory Capped, at 9 o'clock	NO clock, within 8 inch: YES in 8 inch: YES O ck, within 8 inch: YES 6", within 8 inch: YES within 8 inch: YES within 8 inch: YES to 4 o'clock, within 8 inch: YE k, 6", within 8 inch: NO k, 6", within 8 inch: NO 6", within 8 inch: NO bock, within 8 inch: NO bock, within 8 inch: NO	\$4 \$3 \$4 \$3 \$2 \$2 \$2 \$2 \$ \$ \$ \$ \$	00:00:49 00:01:53 00:07:01 00:08:01 00:08:18 00:09:16 00:09:42 00:10:15 00:10:32 00:10:32 00:11:33 00:11:33 00:14:33 00:15:42 00:17:16 00:18:53 00:21:09 00:22:23 00:23:23	7721 7722 7723 7724 7725 7726 7727 7728 7729 7730 7731 7732 7733 7734 7735 7736 7736 7737



# **Inspection report**

		P.O.#: 0TV0607A	D7A     1 Dry     Gilbert Contreras       tomer:     System Owner:     Clean Date:		section number: 377		PSR: <b>72974</b>	
Tota					ey Custome	Pre-Clear J Jettir		Map Grid #: <b>1593</b>
	1:561	position	code	observation		grade	MPEG	photo
y		236.00	FM	Fracture Multiple, from 7 to 5	o'clock, within 8 inch: NO	S 4	00:26:58	7740
)	236.00			Fracture Multiple, from 7 to 5	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: NO			7741
	237.40	237.40	TFA	Tap Factory Active, at 3 o'cloc	ck, 6", within 8 inch: NO		00:28:11	7742
\$		241.80	FC	Fracture Circumferential, from	12 to 5 o'clock, within 8 inch: NO	S 2	00:29:39	7743
Ì		241.80	FC	Fracture Circumferential, from	12 to 6 o'clock, within 8 inch: NO	S 2	00:30:20	7744
		248.00	СМ	Crack Multiple, from 7 to 3 o'c	lock, within 8 inch: NO	S 3	00:31:46	7745
1	1593-0714	248.00	CM	Crack Multiple, from 7 to 3 o'c	lock, within 8 inch: NO	S 3	00:32:16	7746
		290.30	AMH	Manhole, within 8 inch: NO, R	emarks: 1593-0714		00:34:37	7747

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4435	0000	41	0	41	2.93	0	2.93



				Inspect	ion report			
	Date: 03/08/2007		P.O.#: TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contrera	section nu	mber:	PSR: 73013
Т	otal Pipe Leng 189.00	th: Surve	ey Customer: LAW	System Owner: LAW	Clean Date: 03/08/2007	Pre-Clea J Jetti		Map Grid #: <b>1593</b>
Stre	et: MA		CH BV	Flow Control: N	Not Controlled	Start MH:	1593-07	06
City				Year Renewed		End MH:	1593-05	
_00	ation Code: B N	/lain Highway - S	Suburban/Ru	ral Tape/Media #: G	312-032	pipe length:	195 ft	
Rea	son for inspect	tion: <b>F Routir</b>	ne Assessme	ent	Dia/Height: C C	Circular 8"		
Use	of Sewer:	SS Sani	tary		Material: VC Lining Method:	P Vitrified Clay Pipe	Pipe Length:	
Drai	in. Area:	0706/15	93-0555/1593	3	Category:			
Ren	nark::							
	1:500	position	code o	observation		grade	MPEG	photo
		$\begin{array}{r} 0.00\\ \hline 5.00\\ \hline 5.00\\ \hline 10.10\\ \hline 11.70\\ \hline 76.80\\ \hline 90.50\\ \hline 98.50\\ \hline 101.70\\ \hline 140.70\\ \hline 162.60\\ \hline 166.00\\ \hline 176.30\\ \hline 183.00\\ \hline \end{array}$	MWL A DSC I TFA CM C CM C CM C TFA C CM C CM C CM C CM C CM C	Manhole, within 8 inch: NO, R Water Level, 5 %, within 8 inc Deposits Settled Compacted, YES Tap Factory Active, at 3 o'cloc Crack Multiple, from 8 to 4 o'c Crack Multiple, from 8 to 3 o'c Crack Multiple, from 9 to 11 o Tap Factory Active, at 3 o'cloc Crack Multiple, from 9 to 11 o Tap Factory Active, at 3 o'cloc Crack Multiple, from 8 to 4 o'c Crack Multiple, from 8 to 4 o'c Crack Multiple, from 8 to 4 o'c Crack Multiple, from 7 to 5 o'c Crack Multiple, from 7 to 5 o'c Crack Multiple, from 10 to 4 o	th: NO from 1 to 3 o'clock, 10 % ck, 6", within 8 inch: NO clock, within 8 inch: YES clock, within 8 inch: YES clock, within 8 inch: YES ck, 6", within 8 inch: YES lock, o'', within 8 inch: YES lock, o'', within 8 inch: YES clock, within 8 inch: YES clock, within 8 inch: YES	S3 S3 S3 S3 S3 S3 S3 S3 S3 S3 S3 S3 S3 S	00:00:42 00:01:23 00:02:04 00:02:46 00:03:19 00:05:34 00:06:49 00:07:42 00:08:29 00:09:50 00:11:01 00:12:03 00:12:59 00:14:07	7748 7749 7750 7751 7752 7753 7754 7755 7756 7756 7757 7758 7759 7760 7761
		///	TFC	Tap Factory Capped, at 3 o'cl	ock, 6", within 8 inch: NC	)	00:14:39	7762
		///	CC (	Crack Circumferential, from 2	to 6 o'clock, within 8 inc	h: YES S 1	00:15:21	7763
		190.60	MWL	Water Level, 15 %, within 8 in	nch: NO		00:15:45	7764
	$\mathbb{F}///$	192.40	CM	Crack Multiple, from 8 to 4 o'c	clock, within 8 inch: YES	S 3	00:16:08	7765
	/	194.80		Obstacle Intruding Thru Wall,		6, within 8 inch: M 5	00:18:25	7766
		195.00		NO, Remarks: Telephone pol- Broken Soil Visible, from 7 to		NO S 5	00:19:01	7767
		195.00		Collapse Pipe Sewer, at 7 o'c	lock, 95 %, within 8 inch:	NO, Remarks: S 5	00:19:58	7768
		195.00	MSA /	Telephone pole in pipe Abandoned Survey, within 8 in collaps	nch: NO, Remarks: came	era blocked by	00:20:54	7769
	QSR	QMR		PR MPR	OPR	SPRI	MPRI	OPRI
	301	QIVIT	۰ ا			JEIN	IVIE EVI	



				Inspect	ion report			
0	Date: 3/08/2007		P.O.#: <b>FV0607A</b>	Weather: 1 Dry	Surveyed By: Gilbert Contreras		section number: 380	
Tota	I Pipe Length 238.00		/ Customer: LAW	System Owner: LAW	Clean Date: 03/08/2007	Pre-Cle H Heavy C		Map Grid #: 1593
Street:	MAN	HATTAN BEAC	H BV	Flow Control: N	Not Controlled	Start MH:	1593-05	56
City:	LAW	/		Year Renewed		End MH:	1593-05	
Locatio	n Code: <b>B M</b> a	ain Highway - S	uburban/Ru	ral Tape/Media #: G	312-032	pipe length:	81.5 ft	
Reasor	n for inspectio	on: F Routin	e Assessme	ent	Dia/Height: C C	ircular 8"		
Use of	Sewer:	SS Sanit	ary		Material: VCF Lining Method:	Vitrified Clay Pipe	Pipe Length:	
Drain. A	Area:	0556/159	3-0557/1593	3	Category:			
Remark	k::							
	1:200	position	code c	observation		grade	MPEG	photo
	593-0556	0.00 5.00 6.10 8.80 23.60 28.20 29.00	MWL V CM C TFA 1 TFC 1 TFC 1 CM C	Manhole, within 8 inch: NO, F Water Level, 5 %, within 8 inc Crack Multiple, from 9 to 3 o'c Fap Factory Active, at 9 o'clo Fap Factory Capped, at 3 o'cl Crack Multiple, from 9 to 4 o'c Fap Break-in Active, at 9 o'clo	ch: NO clock, within 8 inch: YES ck, 6", within 8 inch: NO lock, 6", within 8 inch: NO lock, 6", within 8 inch: NO clock, within 8 inch: YES		00:00:37 00:01:32 00:01:58 00:02:32 00:03:03 00:03:44 00:04:33 00:05:19	7779 7780 7781 7782 7783 7784 7785 7786
		59.40		Гар Factory Capped, at 9 o'cl			00:06:21	7787
		65.10		Fap Factory Capped, at 3 o'cl				7788
		78.50	HSV H	Hole Soil Visible, from 9 to 11	l o'clock, within 8 inch: YE	S S 5	00:07:59	7789
		78.50	MWL V	Water Level, 15 %, within 8 in	nch: NO		00:08:26	7790
		81.20		Deposits Settled Compacted,	from 3 to 9 o'clock, 50 %	, within 8 inch: M 5	00:09:29	7791
		81.50	MSA A	Abandoned Survey, within 8 i cement	nch: NO, Remarks: came	ra blocked by	00:10:00	7792
	QSR	QMR	9	PR MPR	OPR	SPRI	MPRI	OPRI
	132	5100		1 5	16	3.67	5	4



					inspec	tion report			
	Date: 03/12/2007			D.#: 0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section nur 398	mber:	PSR: <b>72818</b>
٦	Total Pipe Length: 188.00		rvey C	Custome AW		Clean Date: 03/12/2007	Pre-Clear H Heavy Cle		Map Grid #: <b>1594</b>
Stre	eet: 0				Flow Control:	N Not Controlled	Start MH:	1594-01	53
City	: LAW				Year Renewed		End MH:	1594-01	54
	ation Code: D Easeme					G312-034	pipe length:	187.9 ft	
	ason for inspection:			Assessr	nent	Dia/Height: C Circu Material: VCP Vit	lar 8" rified Clay Pipe	Pipe Length:	
	e of Sewer: in. Area:	SS Sa 0154/		y 0153/15	94	Lining Method:			
	nark::	••••				Category:			
	1:429 pc	sition		code	observation		grade	MPEG	photo
	1594-0153	0.00		AMH	Manhole, within 8 inch: NO,	Remarks: 1594-0153		00:00:42	8088
		0.50		СС	Crack Circumferential, from	7 to 6 o'clock, within 8 inch: NC	) S 1	00:02:38	8089
		4.00		RFJ	Roots Fine Joint, from 7 to 5	5 o'clock, within 8 inch: YES	M 1	00:03:26	8090
		5.00		MWL	Water Level, 5 %, within 8 in	nch: NO		00:04:30	8091
		6.90		RFJ	Roots Fine Joint, from 7 to 5	5 o'clock, within 8 inch: YES	M 1	00:05:00	8092
		11.40		TFA	Tap Factory Active, at 9 o'cl	ock, 6", within 8 inch: NO		00:05:32	8093
		49.80		TFA	Tap Factory Active, at 9 o'cl	ock, 6", within 8 inch: NO		00:06:41	8094
		51.00		RFJ	Roots Fine Joint, at 3 o'cloc	k, within 8 inch: YES	M 1	00:06:58	8095
		72.50		RFJ	Roots Fine Joint, from 8 to 4	4 o'clock, within 8 inch: YES	M 1	00:08:07	8096
		87.50		RFJ	Roots Fine Joint, from 8 to 2	2 o'clock, within 8 inch: YES	M 1	00:09:09	8097
s		96.90	<b>S</b> 1	CL	Crack Longitudinal, at 9 o'cl	lock, within 8 inch: YES, Start	S 2	00:10:34	8098
\$		96.90	<b>S</b> 2	CL	Crack Longitudinal, at 12 o'	clock, within 8 inch: YES, Start	S 2	00:11:01	8099
8		96.90	S3	СС	Crack Circumferential, from	3 to 5 o'clock, within 8 inch: YE	S, Start S 1	00:11:31	8100
R		98.10		TFA	Tap Factory Active, at 9 o'cl	ock, 6", within 8 inch: NO		00:12:24	8101
-		98.10		RFL	Roots Fine Lateral, at 9 o'cl	ock, within 8 inch: NO	M 1	00:12:38	8102
		98.90		JOM	Joint Offset Medium, within	8 inch: NO	S 1	00:13:13	8103
		98.90		D	Deformed, 10 %, within 8 in	ch: NO	S 4	00:13:45	8104
		102.40	F1	CL	Crack Longitudinal, at 9 o'cl	lock, within 8 inch: YES, End	S 2	00:14:25	8105
		102.40	F2	CL	Crack Longitudinal, at 12 o'	clock, within 8 inch: YES, End	S 2	00:14:40	8106
		102.40	F3	СС	Crack Circumferential, from	3 to 5 o'clock, within 8 inch: YE	S, End S 1	00:14:55	8107
		108.40	S4	RFJ	Roots Fine Joint, from 1 to 5	5 o'clock, within 8 inch: YES, St	art M 1	00:15:59	8108
		17.90	S5	СМ	Crack Multiple, from 7 to 5 c	o'clock, within 8 inch: YES, Star	s S S	00:16:49	8109
	·	143.40		TFA	Tap Factory Active, at 9 o'cl	ock, 6", within 8 inch: NO		00:18:14	8110



# **Inspection report**

	Date: 03/12/2007			P.O.#: <b>Y0TV0607A</b>			Weather: 1 Dry	Surveyed By: Gilbert Contreras	section nur <b>398</b>	nber:	PSR: <b>72818</b>
Т	otal Pipe Length: 188.00	Survey Customer: LAW				,		Pre-Clear H Heavy Cle		Map Grid #: <b>1594</b>	
	1:429	positi	on		code	obse	rvation		grade	MPEG	photo
		182.	10		TFA	Tap F	actory Active, at 9 o'clock	, 6", within 8 inch: NO		00:20:00	8111
		185.	30	F4	RFJ	Roots	Fine Joint, from 1 to 5 o'd	clock, within 8 inch: YES, End	M 1	00:21:03	8112
\$	1594-0154	185.	30	F5	СМ	Crack	Multiple, from 7 to 5 o'clo	ock, within 8 inch: YES, End	S 3	00:21:19	8113
þ		185.	30		MMC	Mate	rial Change, within 8 inch:	NO, Remarks: cast-iron pipe		00:21:49	8114
l		185.	80		SCP	Surfa	ce Corrosion Metal Pipe, f	rom 3 to 9 o'clock, within 8 inc	h: NOS3	00:22:52	8115
K	/	187.	90		DNZ		sits Ingressed Other, from Remarks: dirt	4 to 8 o'clock, 30 %, within 8 i	nch: M 4	00:24:30	8116
		\ 187.	90		AMH	- /	ole, within 8 inch: NO, Re	marks: 1594-0154		00:25:15	8117

413B	411D	65	29	94	2.71	1.12	1.88
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI



				Inspecti	ion report			
	Date: 01/26/2007		P.O.#: <b>FV0607A</b>	Weather: 1 Dry	Surveyed By: Anthony Hernandez	section nu 400	mber:	PSR: <b>73156</b>
Тс	otal Pipe Lengt 197.00		/ Customer: LAW	System Owner: LAW	Clean Date:	Pre-Clea J Jettii		Map Grid #: <b>1593</b>
Stree	et: 153	BRD ST		Flow Control: N	Not Controlled	Start MH:	1593-04	50
City:				Year Renewed		End MH:	1593-044	
Loca	ation Code: C L	ight Highway.		Tape/Media #: A3	315-001	pipe length:	253.5 ft	
Reas	son for inspect	ion: F Routin	e Assessm	ent	Dia/Height: C Circu	ılar 8"		
Use	of Sewer:	SS Sanit	ary		Material: VCP Vi Lining Method:	trified Clay Pipe	Pipe Length:	
Drair	n. Area:	0450/159	3-0449/159	3	Category:			
Rem	ark::							
	1:625	position	code	observation		grade	MPEG	photo
		0.00	AMH	Manhole, within 8 inch: NO, Ro	emarks: 1593-0450		00:00:32	7
	1593-0450	0.00		Hole Soil Visible, from 3 to 9 o	o'clock, within 8 inch: NO, Re	marks: S 5	00:01:58	8
		4.50		INSIDE CHANNEL Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:03:05	9
		5.00	MWL	Water Level, 5 %, within 8 inch	h: NO		00:03:36	10
		7.80	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:04:00	11
		13.90	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:04:30	12
		47.10		Tap Factory Active, at 9 o'cloc			00:06:17	13
	-	54.70		Water Level, 10 %, within 8 ind			00:06:43	14
		65.20		Tap Factory Active, at 9 o'cloc			00:07:14	15
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		67.70		Tap Break-in Active, at 2 o'clo			00:08:04	16
\$		89.40		Tap Factory Active, at 3 o'cloc			00:09:05	17
		122.90		Tap Factory Active, at 9 o'cloc			00:10:19	18
		131.70		Tap Factory Active, at 3 o'cloc			00:10:54	19
		145.20		Roots Fine Joint, from 4 to 9 o		M 1	00:13:10	20
				,	,			
		145.20		Crack Circumferential, from 8			00:13:35	21
		154.70		Roots Fine Joint, from 8 to 4 o	,	M 1	00:15:50	22
		155.50		Tap Factory Active, at 3 o'cloc			00:16:46	23
		164.20		Tap Factory Active, at 9 o'cloc			00:17:19	24
		194.80		Tap Factory Active, at 3 o'cloc			00:22:52	25
		222.10	TFA	Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:23:59	26
		225.10	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:24:24	27
		237.00	TFA	Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:25:03	28
		248.90	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:25:50	29
	1593-0449	253.50	АМН	Manhole, within 8 inch: NO, Re	emarks: 1593-0449		00:26:33	30
	QSR	QMR		PR MPR	OPR	SPRI	MPRI	OPRI
-	5111	1200	-	6 2	8	3	1	2



				Insp	ectio	on report		101. (714)	555-0552, FdX	: (714) 283-8578
	Date:		.0.#:	- Weather:		- Surveyed By:		ection nur	nber:	PSR:
т	02/02/2007 otal Pipe Lengt		V0607A Customer:	1 Dry System Own	or.	Martin Garcia Clean Date:		446 Pre-Clear	ved.	73161 Map Grid #:
	174.00		.AW	LAW		Glean Date.		J Jettin		1593
Stre	et: HAV	WTHORNE BV		Flow Control:	N No	ot Controlled	Start	MH:	1593-054	40
City	: LAV	v		Year Renewed			End N	/H:	1593-04	54
Loc	ation Code: A M	ain Highway - Ur	ban	Tape/Media #:	M31	5-005	pipe le	ength:	223.4 ft	
	son for inspecti	on: FRoutine	Assessme	nt		•	Circular 8" P Vitrified Cl	av Pine I	Pine Lenath:	
	of Sewer:	SS Sanita	•			Lining Method:		ayripei	ipe Lengui.	
	in. Area: nark::	0540/1593	8-0454/1593			Category:				
Nen	Iark									
	1:550	position	code o	bservation				grade	MPEG	photo
		0.00	AMH M	anhole, within 8 inch:	NO, Ren	narks: 1593-0540			00:00:34	739
	1593-0540	5.00	MWL V	ater Level, 15 %, with	nin 8 inch	: NO			00:01:24	740
		15.10	CC C	rack Circumferential,	from 7 to	3 o'clock, within 8 inc	h: YES	S 1	00:02:12	741
		16.60	TF T	ap Factory, at 10 o'clo	ock, 6", w	thin 8 inch: NO, Rem	arks: ROOTS		00:02:56	742
	$\leq$	16.60	RBL R	oots Ball Lateral, at 10	0 o'clock,	95 %, within 8 inch:	NO	M 4	00:03:19	743
		46.40	MWL V	/ater Level, 10 %, with	nin 8 inch	: NO			00:04:35	744
		51.50	cc c	rack Circumferential,	from 7 to	5 o'clock, within 8 inc	h: YES	S 1	00:05:06	745
		59.10	TFA T	ap Factory Active, at 1	10 o'clocł	, 6", within 8 inch: NO	)		00:06:38	746
		68.10		ap Factory Active, at 1					00:07:07	747
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		84.80		rack Circumferential,				S 1	00:07:55	748
<b>%</b>		105.70		/ater Level, 15 %, with				-	00:08:50	749
		125.60		ap Factory Active, at 1			)		00:09:45	750
		126.90		rack Longitudinal, at 1			-	S 2	00:10:09	751
Ĩ.		126.90		oots Fine Joint, at 4 o				M 1	00:10:41	752
				,	,		10			
'		167.80		ap Factory Capped, a					00:12:22	753
		179.60		ap Factory Capped, a					00:13:05	754
		179.60		/ater Level, 10 %, with				<b>C</b> <i>t</i>	00:13:18	755
		187.00		rack Circumferential, t			ICN: YES	S 1	00:13:56	756
		198.20		ap Factory Active, at 3				<b>c</b> :	00:14:46	757
	$\mathbb{H}$	217.70		rack Circumferential,				S 1	00:15:55	758
	$\mathbb{P}$	218.90		ap Factory Capped, a	t 10 o'clo	ck, 6", within 8 inch: 1	10		00:16:41	759
		220.50	CC C	rack Circumferential,	from 4 to	8 o'clock, within 8 inc	h: YES	S 1	00:17:13	760
		223.30		ole Soil Visible, from 4 ISIDE MH BOTTOM (			), Remarks:	S 5	00:18:40	761
	1593-0454	223.40		anhole, within 8 inch:					00:19:29	762
	QSR	QMR	SF	R MPF	२	OPR	SPRI	<u> </u>	MPRI	OPRI
	5121	4111	1			18	1.62		2.5	1.8



					Inspectio	on report			639-8352, Fax:	
	Date: 01/18/2007		P.O.#: V0607A		• Weather: 1 Dry	Surveyed By: MARTIN GARC		section nur 462	nber:	PSR: 73398
Т	otal Pipe Lengt	h: Survey	Customer:	Sy	stem Owner:	Clean Date:		Pre-Clear		Map Grid #:
	321.00		LAW		LAW			J Jettin	g	1593
Stre	et: OS	AGE AV		Flow C	ontrol: N No	ot Controlled	Star	t MH:	1593-020	00
City					enewed			MH:	1593-019	99
	ation Code: C L				ledia #: M31	3-001		e length:	324.4 ft	
	son for inspecti		e Assessme	ent		0	Circular 8" CP Vitrified (	Clay Pipe	Pipe Length:	
	of Sewer: n. Area:	SS Sanita 0200/1593	ary 3-0199/1593	1		Lining Method:				
	nark::	0200,1000				Category:				
	1:800	position	code d	observation				grade	MPEG	photo
		0.00	AMH M	/lanhole, with	iin 8 inch: NO, Ren	narks: 1593-0200			00:00:43	50
		0.00	VC	/ermin Cockr	oach, within 8 inch	: NO		M 1	00:00:56	51
	1593-0200	0.10	MWL V	Vater Level,	10 %, within 8 inch	: NO			00:01:20	52
		4.30	CC (	Crack Circum	ferential, from 7 to	5 o'clock, within 8 ind	ch: YES	S 1	00:02:05	53
		26.30	CC (	Crack Circum	ferential, from 7 to	12 o'clock, within 8 ir	nch: YES	S 1	00:03:55	54
		33.50	MWL V	Vater Level,	20 %, within 8 inch	: NO			00:04:36	55
		35.80	cc d	Crack Circum	ferential, from 10 t	o 2 o'clock, within 8 ir	nch: YES	S 1	00:05:11	56
		57.70	MWL V	Vater Level,	10 %, within 8 inch	: NO			00:06:24	57
		67.00	CC (	Crack Circum	ferential, from 9 to	2 o'clock, within 8 ind	ch: YES	S 1	00:7:10	58
		102.30	TFA 1	ap Factory A	Active, at 9 o'clock,	6", within 8 inch: NO			00:08:44	59
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		138.60				6", within 8 inch: NO			00:12:04	60
»		162.20				within 8 inch: YES		S 2	00:13:05	61
		169.40				6", within 8 inch: NO			00:13:56	62
<b>《</b>		187.70				6", within 8 inch: NO			00:14:45	63
"		194.30				, 6", within 8 inch: NC			00:15:31	64
						5 o'clock, within 8 inc		S 1	00:17:01	65
		217.10			,	,		51		
		233.60				6", within 8 inch: NO		6.4	00:18:10	66
		253.90				3 o'clock, within 8 ind		S 1	00:19:10	67
		273.60				k, 6", within 8 inch: N			00:20:32	68
	$\mathbb{H}$	276.40				6", within 8 inch: NO			00:20:57	69
		290.50	FM F	Fracture Mult	iple, from 2 to 9 o'c	lock, within 8 inch: Yl	ES	S 4	00:23:01	70
		290.50	BVV E	Broken Void	/isible, from 7 to 9	o'clock, within 8 inch	: YES	S 5	00:23:31	71
		309.40	CL (	Crack Longitu	idinal, at 10 o'clock	x, within 8 inch: YES		S 2	00:24:55	72
		312.20	CC (	Crack Circum	ferential, from 7 to	6 o'clock, within 8 ind	ch: YES	S 1	00:26:11	73
	1593-0199	324.40	AMH N	Manhole, with	iin 8 inch: NO, Ren	narks: 1593-0199			00:27:28	74
	1.00-0199									
	QSR 5141	QMR 1100		PR 20	MPR 1	OPR 21	SPRI 1.82		MPRI 1	OPRI 1.75



				Inspection	on report					
	Date: 01/18/2007	Y	P.O.#: 0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section nur 468	mber:	PSR: <b>73280</b>		
Тс	otal Pipe Length: 323.00	Surv	ey Custome LAW	r: System Owner: LAW	Clean Date:	Pre-Clear J Jettir		Map Grid #: 1593		
Stree	et: HAWT	HORNE BV		Flow Control: N N	lot Controlled S	tart MH:	1593-033	30		
City:	LAW			Year Renewed	E	nd MH:	1593-032	29		
Loca	tion Code: C Ligh	t Highway		Tape/Media #: M31	1 <b>3-001</b> p	ipe length:	299.1 ft			
Reas	son for inspection:	F Rout	ine Assessr	nent	t Dia/Height: C Circular 8" Material: VCP Vitrified Clay Pipe Pipe Length:					
	of Sewer:	SS Sar	-		Lining Method:	u olay i ipe	i ipe Lengui.			
	n. Area:	0330/1	593-0329/15	93	Category:					
Rem	агк.:									
	1:462	position	code	observation		grade	MPEG	photo		
	_	0.00	AMH	Manhole, within 8 inch: NO, Re	marks: 1593-0330		00:00:37	208		
	1593-0330	4.00	MWL	Water Level, 10 %, within 8 incl	h: NO		00:01:13	209		
		10.90	CC	Crack Circumferential, from 10	to 5 o'clock, within 8 inch: YES	S 1	00:02:04	210		
		14.10	CL	Crack Longitudinal, at 11 o'cloc	k, within 8 inch: YES	S 2	00:03:32	211		
		14.10	RFJ	Roots Fine Joint, from 11 to 1 o	o'clock, within 8 inch: YES	M 1	00:04:05	212		
		23.20	RFJ	Roots Fine Joint, from 9 to 3 o'd	clock, within 8 inch: YES	M 1	00:05:05	213		
		23.20	СС	Crack Circumferential, from 9 to	o 3 o'clock, within 8 inch: YES	S 1	00:05:13	214		
		35.40	RFJ	Roots Fine Joint, from 7 to 2 o'	clock, within 8 inch: YES	M 1	00:06:24	215		
		50.80	RFJ	Roots Fine Joint, at 1 o'clock, w	vithin 8 inch: YES	M 1	00:07:28	216		
,,,,,		56.80	RFJ	Roots Fine Joint, from 11 to 1 o	clock, within 8 inch: YES	M 1	00:08:22	217		
<b>》</b>		66.00	сс	Crack Circumferential, from 7 to	o 5 o'clock, within 8 inch: YES	S 1	00:09:25	218		
		66.00	S1 RFJ	Roots Fine Joint, from 7 to 5 o'd CONTINOUS ROOTS, Start	clock, within 8 inch: YES, Rema	rks: M 1	00:09:46	219		
<b>《</b>		75.10	СС	Crack Circumferential, from 11	to 2 o'clock, within 8 inch: YES	S 1	00:11:20	220		
		76.00	TFA	Tap Factory Active, at 9 o'clock	a, 4", within 8 inch: NO		00:11:55	221		
		76.00	CL	Crack Longitudinal, at 9 o'clock	, within 8 inch: NO	S 2	00:12:09	222		
	$F_{M} $	92.80	CC	Crack Circumferential, from 7 to	o 2 o'clock, within 8 inch: YES	S 1	00:13:53	223		
		98.90	н	Hole, from 7 to 9 o'clock, within JOINT	8 inch: YES, Remarks: HOLE A	T S4	00:15:20	224		
		98.90	CC	Crack Circumferential, from 12	to 9 o'clock, within 8 inch: YES	S 1	00:16:15	225		
		111.00	MGO	General Observation, within 8 in CONTINOUS	nch: NO, Remarks: ROOTS STI	LL	00:17:45	226		
		114.30	CC	Crack Circumferential, from 8 to	o 4 o'clock, within 8 inch: YES	S 1	00:18:19	227		
		117.30	<b>53</b> CC	Crack Circumferential, from 7 to Remarks: CRACKS CONTINOL		S 1	00:18:55	228		
		142.50	TFA	Tap Factory Active, at 9 o'clock			00:20:59	229		
		163.70	TFC	Tap Factory Capped, at 9 o'cloo	ck, 4", within 8 inch: NO		00:22:11	230		
		189.60	MGO	General Observation, within 8 in CONTINOUS	nch: NO, Remarks: ROOTS STI	LL	00:23:42	231		



## **Inspection report**

	Date: 01/18/2007		P.O.#: <b>TV0607A</b>	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section nur 468	nber:	PSR: <b>73280</b>
Tot	al Pipe Length: 323.00	ngth: Survey Customer: System Owner: Clean Date: Pre-Cleaned: J Jetting					Map Grid #: <b>1593</b>	
	1:462	position	code	observation		grade	MPEG	photo
		201.90 F	3 CC	Crack Circumferential, from 7 to Remarks: CRACKS CONTINO		S 1	00:24:15	232
,	-	211.80	TFA	Tap Factory Active, at 9 o'clock	, 4", within 8 inch: NO		00:24:46	233
		238.10 240.90	CL CC	Crack Longitudinal, at 10 o'cloc Crack Circumferential, from 8 to		<mark>S 2</mark> S 1	00:26:25 00:27:09	234 235
		265.50	CL	Crack Longitudinal, at 7 o'clock	, within 8 inch: YES	S 2	00:28:55	236
		268.20	CC	Crack Circumferential, from 3 to	o 9 o'clock, within 8 inch: YES	S 1	00:29:36	237
		271.40	СС	Crack Circumferential, from 3 to	o 9 o'clock, within 8 inch: YES	S 1	00:30:17	238
		283.90	СС	Crack Circumferential, from 5 to	o 10 o'clock, within 8 inch: YES	S 1	00:31:50	239
		297.50 F	1 RFJ	Roots Fine Joint, from 7 to 5 o' CONTINOUS ROOTS, End	clock, within 8 inch: YES, Remarks	: M 1	00:33:01	240
	1593-0329	299.10	AMH	Manhole, within 8 inch: NO, Re	marks: 1593-0329		00:33:26	241

7127	1100		WinConEvnert m	-			
4124	1N00	44	63	107	1.19	1	1.07
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI



	Date:	6	P.O.#:	Weather:	Surveyed By:	section nu	imber:	PSR:
	01/19/2007		FV0607A	1 Dry	MARTIN GARC	IA 471		73589
-	Total Pipe Length 339.00		y Customer: LAW	System Owner: LAW	Clean Date:	Pre-Clea J Jett		Map Grid #: <b>1593</b>
Stre	eet: AVIS	S AV		Flow Control:	N Not Controlled	Start MH:	1593-01	87
City	.: LAV	v		Year Renewed		End MH:	1593-00	07
Loc	ation Code: C Li	ght Highway		Tape/Media #:	M313-002	pipe length:	305.8 ft	
Rea	ason for inspection	on: <b>F Routin</b>	e Assessm	ent		Circular 8"		
Use	e of Sewer:	SS Sanit	ary		Material: Vo	CP Vitrified Clay Pipe	Pipe Length:	
Dra	in. Area:	0187/159	3-0007/159	3	Category:			
Rei	mark::							
	1:750	position	code	observation		grade	MPEG	photo
	1593-0187	0.00 0.00 6.20 15.10 19.10 36.50	VC TFC TFA MWL	Manhole, within 8 inch: NO, Vermin Cockroach, within 8 Tap Factory Capped, at 3 o Tap Factory Active, at 9 o'c Water Level, 5 %, within 8 i Tap Factory Active, at 9 o'c	i inch: NO 'clock, 4", within 8 inch: N lock, 4", within 8 inch: NC nch: NO		00:00:36 00:00:48 00:02:22 00:02:57 00:03:19 00:03:58	304 305 306 307 308 309
		114.10		Tap Factory Active, at 9 o'c Tap Factory Capped, at 3 o			00:06:09 00:06:33	310 311
		150.50	TFA	Tap Factory Active, at 9 o'c	lock, 4", within 8 inch: NC		00:07:43	312
		164.50		Crack Circumferential, from			00:08:55	313
		171.50		Tap Factory Capped, at 3 o			00:09:39	314
		199.40	TFA	Tap Factory Active, at 9 o'c	lock 4" within 8 inch: NC		00:10:40	315
		199.40	BSV	Broken Soil Visible, at 9 o'c has broken pipe			00:11:11	316
		239.30	TFC	Tap Factory Capped, at 3 o	clock, 4", within 8 inch: N	0	00:12:44	317
		263.90	TFA	Tap Factory Active, at 9 o'c	lock, 4", within 8 inch: NC		00:13:38	318
	1593-0007	302.80 305.80		Crack Circumferential, from Manhole, within 8 inch: NO,		ch: YES S 1	00:15:19 00:16:12	319 320
	QSR	QMR	0	PR MPR	OPR	SPRI	MPRI	OPRI



					inspect	ion report			
	Date: 01/25/2007		P.C <b>YOTV</b>	D.#: <b>0607A</b>	Weather: 1 Dry	Surveyed By: GILBERT CONTRERAS	section nur 519	mber:	PSR: <b>73112</b>
Т	Total Pipe Length: 280.00	Sur	vey C LA	ustomei W	r: System Owner: LAW	Clean Date:	Pre-Clear J Jettin		Map Grid #: <b>1593</b>
Stre	eet: SOMBF	RA AV			Flow Control: N	Not Controlled	Start MH:	1593-053	0
City	: LAW				Year Renewed		End MH:	1593-053	31
Loc	ation Code: C Light	Highway			Tape/Media #: G	313-006	pipe length:	241.5 ft	
Rea	ason for inspection:	F Rou	tine A	Assessn	nent	Dia/Height: C Circula			
Use	e of Sewer:	SS Sa	nitary	y		Material: VCP Vitri Lining Method:	fied Clay Pipe	Pipe Length:	
Dra	in. Area:	0530/1	1593-0	0531/15	93	Category:			
Rer	nark::								
	1:363	position		code	observation		grade	MPEG	photo
							9		•
	1593-0530	0.00		AMH	Manhole, within 8 inch: NO, R	emarks: 1593-0530		00:00:34	1385
		6.00		MWL	Water Level, 10 %, within 8 in	nch: NO		00:01:27	1386
		20.70		TFA	Tap Factory Active, at 3 o'cloo	ck, 6", within 8 inch: NO		00:02:07	1387
		23.10		TFA	Tap Factory Active, at 9 o'cloo	ck, 6", within 8 inch: NO		00:02:37	1388
		33.60		СМ	Crack Multiple, from 7 to 5 o'c	clock, within 8 inch: YES	S 3	00:03:46	1389
		36.30		СМ	Crack Multiple, from 3 to 9 o'c	clock, within 8 inch: YES	S 3	00:04:33	1390
		46.70		TFC	Tap Factory Capped, at 3 o'cl	ock, 6", within 8 inch: NO		00:05:16	1391
		49.30		TFC	Tap Factory Capped, at 9 o'cl	ock, 6", within 8 inch: NO		00:05:38	1392
		53.60	S1	RPR	Repair Point, from 7 to 6 o'clo pipe, Start	ock, within 8 inch: NO, Remarks	s: new	00:06:27	1393
2		53.60		н	Hole, from 4 to 6 o'clock, with	in 8 inch: YES	S 4	00:07:06	1394
		59.40	F1	RPR	Repair Point, from 7 to 6 o'clo pipe, End	ock, within 8 inch: NO, Remarks	s: new	00:08:14	1395
\$	_	71.80		СС		to 6 o'clock, within 8 inch: YES	S S 1	00:09:02	1396
		80.80	S2	СМ	Crack Multiple, from 7 to 6 o'c	clock, within 8 inch: YES, Start	S 3	00:09:58	1397
		85.20		TFA	Tap Factory Active, at 3 o'cloo	ck, 6", within 8 inch: NO		00:10:39	1398
		87.70		TFD	Tap Factory Defective, at 9 of fracture longitudinal	clock, 6", within 8 inch: NO, Re	marks: M 2	00:11:31	1399
		104.30	S3	RPR	<u> </u>	ock, within 8 inch: NO, Remarks	s: new	00:12:47	1400
		104.30	F2	СМ	Crack Multiple, from 7 to 6 o'c	clock, within 8 inch: YES, End	S 3	00:12:59	1401
		107.50	F3	RPR	Repair Point, from 7 to 6 o'clo pipe, End	ock, within 8 inch: NO, Remarks	s: new	00:13:40	1402
		116.70	S4	RPR		ock, within 8 inch: NO, Remarks	s: new	00:14:29	1403
		119.60		СМ	Crack Multiple, from 7 to 5 o'c	clock, within 8 inch: YES	S 3	00:14:57	1404
		122.90	F4	RPR	•	ock, within 8 inch: NO, Remarks	s: new	00:15:24	1405
		124.20		TFC	pipe, End Tap Factory Capped, at 3 o'cl	ock, 6", within 8 inch: NO		00:15:39	1406
		\ 126.60		TFA	Tap Factory Active, at 9 o'cloo	ck, 6", within 8 inch: NO		00:16:04	1407



1							mapeeu	on report				
	Date: 01/25/2007			YOTV	D.#: 0607A		Weather: 1 Dry	Surveyed By: GILBERT CONTRE	RAS	section n 519	)	PSR: 73112
	Total Pipe Lengt 280.00	th:	Su	rvey C LA	ustome	r:	System Owner: LAW	Clean Date:		Pre-Clea J Jett		Map Grid #: <b>1593</b>
	1:363	pos	sition		code	observat	ion			grade	MPEG	photo
		1:	55.50	S5	СМ		Iltiple, from 7 to 5 o'clo		, Start	S 3	00:17:28	1408
			56.80		TFA	Tap Fact	ory Active, at 3 o'clock	, 6", within 8 inch: NO			00:17:59	1409
		1!	59.30		TFA	Tap Fact	ory Active, at 9 o'clock	, 6", within 8 inch: NO			00:18:19	1410
<u>}</u>			80.10		TFC		ory Capped, at 3 o'cloo				00:20:19	1411
<b>\$</b>		18	82.70		TFC	Tap Fact	ory Capped, at 9 o'cloo	ck, 6", within 8 inch: N	0		00:20:54	1412
		1	93.00	F5	СМ	Crack Mu	ıltiple, from 7 to 5 o'clo	ck, within 8 inch: YES	, End	S 3	00:21:27	1413
1	-	2	12.80		MWL	Water Le	vel, 15 %, within 8 incl	n: NO			00:22:16	1414
	_	22	21.90		TFA	Tap Fact	ory Active, at 3 o'clock	, 6", within 8 inch: NO			00:22:46	1415
		2	24.60		TFA	Tap Fact	ory Active, at 9 o'clock	, 6", within 8 inch: NO			00:23:15	1416
		24	41.50		AMH	Manhole,	within 8 inch: NO, Re	marks: 1593-0531			00:24:22	1417
	QSR 413B		QMR 2100			SPR 59	MPR 2	OPR 61	SPF 2.9		MPRI 2	OPRI 2.9
<u> </u>												I



				Inspecti	ion report			
	Date: 02/07/2007		P.O.#: TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section nur 630	nber:	PSR: <b>73046</b>
٦	Fotal Pipe Length: 318.00	-	ey Customer LAW		Clean Date: 02/05/2007	Pre-Clear J Jettin		Map Grid #: 1593
Stre	eet: 163RD S	т		Flow Control: NI	Start MH:	1593-059	96	
City	: LAW			Year Renewed		End MH:	1593-059	95
Loc	ation Code: C Light	Highway		Tape/Media #: M3	313-014	pipe length:	339 ft	
	ason for inspection:		ne Assessm	ent	Dia/Height: C Circula Material: VCP Vitri	r 8" fied Clay Pipe ∣	Pipe Length:	
	e of Sewer: in. Area:	SS Sani	tary 93-0595/159	2	Lining Method:	,.		
	mark::	0390/13	33-0393/138		Category:			
	1:594 p	osition	code	observation		grade	MPEG	photo
	1593-0596	0.00	АМН	Manhole, within 8 inch: NO, Re	emarks: 1593-0596		00:00:28	3448
		4.00	СС	Crack Circumferential, from 7	to 2 o'clock, within 8 inch: YES	S S 1	00:01:27	3449
		4.00	RFJ	Roots Fine Joint, from 4 to 8 o	'clock, within 8 inch: YES	M 1	00:01:45	3450
		5.00	TFA	Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:02:31	3451
		6.00	СС	Crack Circumferential, from 3	to 7 o'clock, within 8 inch: YES	S S 1	00:3:10	3452
		7.00	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:03:38	3453
		9.20	MWL	Water Level, 5 %, within 8 inch	n: NO		00:03:51	3454
		57.70	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:05:27	3455
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		88.20	TBA	Tap Break-in Active, at 9 o'cloo	ck, 4", within 8 inch: NO		00:06:29	3456
>		90.60	TFC	Tap Factory Capped, at 9 o'clo	ock, 6", within 8 inch: NO		00:06:52	3457
		92.00	RFJ	Roots Fine Joint, from 12 to 6	o'clock, within 8 inch: YES	M 1	00:07:23	3458
\$		95.10	н	Hole, from 11 to 1 o'clock, with	nin 8 inch: YES	S 5	00:08:14	3459
((		95.10	СС	Crack Circumferential, from 11	I to 5 o'clock, within 8 inch: YE	S S 1	00:08:34	3460
		96.20	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:09:29	3461
		123.00	TFA	Tap Factory Active, at 10 o'clo	ck, 6", within 8 inch: NO		00:10:28	3462
		137.80	TFA	Tap Factory Active, at 10 o'clo	ck, 6", within 8 inch: NO		00:11:06	3463
		146.40	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:11:34	3464
		169.40	СС	Crack Circumferential, from 8	to 4 o'clock, within 8 inch: YES	S S 1	00:12:41	3465
		200.60	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:14:07	3466
		205.10	CL	Crack Longitudinal, at 9 o'cloc	k, within 8 inch: YES	S 2	00:14:31	3467
		206.20	TFA	Tap Factory Active, at 10 o'clo	ck, 6", within 8 inch: NO		00:15:11	3468
		233.30	TFA	Tap Factory Active, at 10 o'clo	ck, 6", within 8 inch: NO		00:16:14	3469
		241.80	TFA	Tap Factory Active, at 3 o'cloc	k 6" within 8 inch: NO		00:16:43	3470



Date:	Inspection report       P.O.#:     Weather:     Surveyed By:     section number:       YOTV0607A     1 Dry     MARTIN GARCIA     630							PSR:
02/07/2007 Total Pipe Leng 318.00	th:	Survey	V0607A Customer: LAW	1 Dry System Owner: LAW	MARTIN GARCIA Clean Date: 02/05/2007	A 630 Pre-Clea J Jetti	ned:	73046 Map Grid #: 1593
1:594	ро	sition		observation	02/03/2007	grade	MPEG	photo
		<u>62.60</u> 67.20		Tap Factory Active, at 3 o'cloc Crack Longitudinal, at 9 o'cloc		S 2	00:17:33 00:18:12	3471 3472
		68.50		Tap Factory Active, at 10 o'clo			00:18:45	3473
		01.30 06.70		Tap Factory Active, at 10 o'clo Tap Factory Active, at 3 o'cloc			00:20:01 00:20:32	3474 3475
1\$93-0595	3	39.00	AMH	Manhole, within 8 inch: NO, Re	emarks: 1593-0595		00:21:54	3476



				Inspect	tion report			
	Date: 02/08/2007		P.O.#: <b>V0607A</b>	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section nu 648	mber:	PSR: <b>72953</b>
Т	otal Pipe Length: 300.00		/ Customer:	System Owner: LAW	Clean Date: 02/06/2007	Pre-Clea J Jettir		Map Grid #: <b>1593</b>
<u>.</u>							-	
Stree				Flow Control: N Year Renewed	Not Controlled	Start MH: End MH:	1593-062	
City:	tion Code: D Ease	ment/Pight o	f Way		1313-015	pipe length:	1593-062 303 ft	24
	son for inspection:	-	e Assessme	•	Dia/Height: C Circu		505 11	
	of Sewer:	SS Sanit			Material: VCP Vi	trified Clay Pipe	Pipe Length:	
Drair	n. Area:	0624/159	3-0623/1593	3	Lining Method: Category:			
Rem	ark::							
	1:750	position	code c	observation		grade	MPEG	photo
	1593-0623	0.00 3.60 23.50	MWL V	Manhole, within 8 inch: NO, F Water Level, 5 %, within 8 inc Fap Factory Active, at 11 o'cl		nh-heavy	00:00:39 00:01:02 00:01:45	3881 3882 3883
		50.20		Fap Factory Active, at 1 o'clo			00:02:41	3884
		74.60		Tap Factory Active, at 11 o'cl			00:03:41	3885
		89.40	TFA 1	Гар Factory Active, at 1 o'clo			00:04:21	3886
		117.70		Broken Void Visible, from 10 Remarks: broken pipe	to 12 o'clock, within 8 inch: Y	ES, S 5	00:05:58	3887
		119.80	TFA 1	Fap Factory Active, at 11 o'cl	ock, 6", within 8 inch: NO		00:06:30	3888
>		125.20	TFC 1	Tap Factory Capped, at 1 o'c	lock, 4", within 8 inch: NO		00:06:53	3889
2		127.80	TBA 1	Tap Break-in Active, at 2 o'clo	ock, 6", within 8 inch: NO		00:7:10	3890
2		158.20	TFA 1	Гар Factory Active, at 1 o'clo	ck, 4", within 8 inch: NO		00:08:12	3891
(		158.20	RFL F	Roots Fine Lateral, at 1 o'clo	ck, within 8 inch: NO	M 1	00:08:23	3892
		161.00	TFA 1	Tap Factory Active, at 11 o'cl	ock, 4", within 8 inch: NO		00:08:42	3893
		190.70	TFA 1	Tap Factory Active, at 1 o'clo	ck, 4", within 8 inch: NO		00:09:45	3894
		197.40	TBA 1	Γap Break-in Active, at 12 ο'α	clock. 6". within 8 inch: NO		00:10:20	3895
		199.60		Fap Factory Active, at 11 o'cl			00:10:45	3896
		226.50		Tap Break-in Active, at 11 o'c			00:11:48	3897
				•				
	) (	241.30		Fap Factory Active, at 1 o'clo			00:12:29	3898
		271.70		Fap Factory Active, at 11 o'cl			00:13:34	3899
		277.40	TFA 1	Гар Factory Active, at 1 o'clo	ck, 4", within 8 inch: NO		00:13:59	3900
	1593-0624	303.00	AMH N	Manhole, within 8 inch: NO, F	Remarks: 1593-0624		00:15:17	3901
	·							OPRI
	QSR	QMR	S	PR MPR	OPR	SPRI	MPRI	



				inspecti	on report			
0	Date: 2/12/2007	YO	P.O.#: TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section nur 684	mber:	PSR: <b>73241</b>
Tota	I Pipe Length: 261.00	Surve	ey Customer LAW	: System Owner: LAW	Clean Date: 02/09/2007	Pre-Clear J Jettin		Map Grid #: <b>1593</b>
Street:	MARIN	E AV		Flow Control: N N	lot Controlled	Start MH:	1593-042	29
City:	LAW			Year Renewed		End MH:	1593-040	9
Locatio	n Code: A Main	Highway - L	Jrban	Tape/Media #: M3	13-017	pipe length:	279.5 ft	
	n for inspection:		ne Assessn	nent	Dia/Height: C Circular Material: VCP Vitrifi	8" ied Clay Pipe	Pipe Length:	
Use of Drain. A		SS Sani	tary 93-0409/159	23	Lining Method:		1 0	
Remark		0423/13	33-0403/133	55	Category:			
	1:594	position	code	observation		grade	MPEG	photo
1	593-0429	0.00	AMH	Manhole, within 8 inch: NO, Re	marks: 1593-0429		00:00:30	4686
		6.00	MWL	Water Level, 10 %, within 8 incl			00:01:55	4687
		8.00	TBA	Tap Break-in Active, at 9 o'cloc			00:2:10	4688
		25.60	СС	Crack Circumferential, from 7 to		S S1	00:02:53	4689
		26.30	TFC	Tap Factory Capped, at 2 o'cloo			00:03:22	4690
		44.40	TFC	Tap Factory Capped, at 10 o'clo	ock, 6", within 8 inch: NO		00:04:07	4691
		56.60	TFA	Tap Factory Active, at 3 o'clock	, 6", within 8 inch: NO		00:04:46	4692
		87.40	TFA	Tap Factory Active, at 2 o'clock	, 6", within 8 inch: NO		00:05:50	4693
\$		90.30	TFA	Tap Factory Active, at 10 o'cloc	k, 6", within 8 inch: NO		00:06:14	4694
		121.60	TFC	Tap Factory Capped, at 3 o'clo	ck, 6", within 8 inch: NO		00:07:23	4695
		125.90	СС	Crack Circumferential, from 4 to	o 10 o'clock, within 8 inch: YES	S S1	00:07:51	4696
		130.30	TF	Tap Factory, at 10 o'clock, 6", v	vithin 8 inch: NO		00:08:25	4697
		151.70	TFA	Tap Factory Active, at 2 o'clock	, 6", within 8 inch: NO		00:09:16	4698
		164.60	TBA	Tap Break-in Active, at 11 o'clo	ck, 6", within 8 inch: NO		00:09:54	4699
		175.00	СС	Crack Circumferential, from 2 to	o 6 o'clock, within 8 inch: YES	S 1	00:10:37	4700
		176.50	TBC	Tap Break-in Capped, at 2 o'clo	ock, 6", within 8 inch: NO	M 2	00:11:06	4701
		194.90	TFA	Tap Factory Active, at 2 o'clock	, 6", within 8 inch: NO		00:11:53	4702
		201.00	TFA	Tap Factory Active, at 10 o'cloc	k, 6", within 8 inch: NO		00:12:19	4703
		205.60	СС	Crack Circumferential, from 8 to	o 12 o'clock, within 8 inch: YES	S S 1	00:12:48	4704
		212.90	TFC	Tap Factory Capped, at 3 o'cloo	ck, 6", within 8 inch: NO		00:13:25	4705
		239.40	СС	Crack Circumferential, from 11	to 5 o'clock, within 8 inch: YES	S S 1	00:14:48	4706
		240.30	TF	Tap Factory, at 2 o'clock, 6", wi	thin 8 inch: NO		00:15:18	4707



	Date: 02/12/2007					Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section nur 684	mber:	PSR: <b>73241</b>
Т	otal Pipe Length: 261.00		Surve	ey Customer LAW	:	System Owner: LAW	Clean Date: 02/09/2007	Pre-Clear J Jettir		Map Grid #: <b>1593</b>
	1:594	pos	sition	code	obse	rvation		grade	MPEG	photo
"		2	49.30	TFC	Tap I	Factory Capped, at 10 o'clo	ock, 6", within 8 inch: NO		00:15:51	4708
		2	57.20	В	Brok	en, from 2 to 4 o'clock, with	in 8 inch: YES	S 4	00:16:32	4709
<b>~</b>		2	57.20	СС	Crac	k Circumferential, from 7 to	5 o'clock, within 8 inch: YES	S 1	00:16:46	4710
<b>%</b>		2	61.20	MWL	Wate	er Level, 15 %, within 8 inch	n: NO		00:17:22	4711
	1593-0409	2	66.60	СС	Crac	k Circumferential, from 8 to	5 o'clock, within 8 inch: YES	S 1	00:17:45	4712
		<u>2</u>	69.80	СС	Crac	k Circumferential, from 8 to	0 10 o'clock, within 8 inch: YES	S 1	00:18:14	4713
	/	<u>2</u>	79.50	VC	Verm	in Cockroach, within 8 incl	n: NO	M 1	00:19:21	4714
		2	79.50	AMH	Manł	nole, within 8 inch: NO, Rei	marks: 1593-0409		00:19:39	4715

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4118	2111	12	3	15	1.33	1.5	1.36



Empire Pipe Cleaning 1788 North Neville St. Orange, Ca. 92865

				Inspect	ion report			
	Date: 03/12/2007		O.#: /0607A	Weather: 1 Dry	Surveyed By: MARTIN GARC		number: 14	PSR: 73139
Т	Total Pipe Lengtl 314.00		Customer: AW	System Owner: LAW	Clean Date: 03/06/2007		eaned: tting	Map Grid #: <b>1593</b>
Stre City Loc	: LAV	LEWOOD AV V ain Highway - Urt	ban	Year Renewed	Not Controlled	Start MH: End MH: pipe length:	1593-04 1593-04 225.4 ft	431
Use Dra	ason for inspection of Sewer: in. Area: nark::	SS Sanita	Assessmer ry -0431/1593	nt		Circular 8" CP Vitrified Clay Pip	e Pipe Length:	
	1:550	position	code o	bservation		grac	e MPEG	photo
	1593-0432	0.00 5.00 6.00 7.80 10.70 11.70 11.80 16.30 51.60 82.60	CC C MWL W CC C CC C TFA T CC C CC C TFA T	lanhole, within 8 inch: NO, R rack Circumferential, from 1 /ater Level, 5 %, within 8 inc rack Circumferential, from 1 rack Circumferential, from 7 ap Factory Active, at 10 o'clo rack Circumferential, from 6 emarks: IN LATERAL rack Circumferential, from 7 ap Factory Active, at 10 o'clo ap Factory Capped, at 10 o'clo	0 to 1 o'clock, within 8 in h: NO 2 to 2 o'clock, within 8 in to 5 o'clock, within 8 in ock, 6", within 8 inch: No to 6 o'clock, within 8 inch to 5 o'clock, within 8 inch ock, 6", within 8 inch: No	nch: YES S 1 ch: YES S 1 D ch: NO, S 1 ch: YES, Start S 1 D	00:02:34 00:02:49 00:03:09 00:03:49 00:04:27	7452 7453 7454 7455 7456 7457 7458 7459 7460 7461
	1593-0431	202.70 208.90 212.80 224.60 F1 225.40	BVV B MWL W CC C	roken, from 3 to 4 o'clock, wi roken Void Visible, from 10 t /ater Level, 15 %, within 8 in rack Circumferential, from 7 lanhole, within 8 inch: NO, R	o 1 o'clock, within 8 inc ch: NO to 5 o'clock, within 8 inc		00:15:33 00:16:06	7462 7463 7464 7465 7466
	QSR	QMR	SP	R MPR	OPR	SPRI	MPRI	OPRI
						-		



				Inspect	tion report			
	Date: 01/16/2007		P.O.#: <b>V0607A</b>	Weather: 1 Dry	Surveyed By: <b>Rigo Alvarez</b>	section nui 827	mber:	PSR: <b>73227</b>
То	tal Pipe Length: 350.00		Custome		Clean Date:	Pre-Clear J Jettir		Map Grid #:
Stree	t: 145TH ST			Flow Control: N	Not Controlled	Start MH:	Start MH: 1593-0398	
City:	LAW			Year Renewed		End MH:	1593-039	97
Loca	ion Code: <b>C Light High</b>	way		Tape/Media #: R	311-001	pipe length:	349.6 ft	
Reas	on for inspection: F	Routine	e Assessr	nent	Dia/Height: C Circul Material: VCP Vit	ar 8" rified Clay Pipe	Pine Longth:	
		S Sanita	•		Lining Method:	illeu Clay Fipe	Fipe Lengin.	
		398/-159	93/-0397/-1	1593	Category:			
Rema	ark							
	1:462 posit	ion	code	observation		grade	MPEG	photo
	1593-0398	.00	АМН	Manhole, within 8 inch: NO, F	Remarks: 1593-0398		00:00:52	98
		.90	СС		3 to 9 o'clock, within 8 inch: YE	S S 1	00:02:11	99
		.00	TFA	Tap Factory Active, at 9 o'clo			00:02:49	100
		.30	MWL	Water Level, 5 %, within 8 inc			00:03:06	101
	+	.60	CM	Crack Multiple, from 2 to 5 o'd		S 3	00:03:41	102
		.00	СМ	Crack Multiple, from 2 to 4 o'd		S 3	00:05:00	103
		.10	TFA	Tap Factory Active, at 3 o'clo			00:05:59	104
		.60	СМ	Crack Multiple, from 6 to 9 o'		S 3	00:06:25	105
<b>(((</b>		.70	TFA	Tap Factory Active, at 9 o'clo		•••	00:07:01	106
\$		.00	СМ	Crack Multiple, from 10 to 12		S 3	00:09:07	107
8			ТВА				00:10:16	108
Ŵ		.80 .90 <b>S1</b>		Tap Break-in Active, at 3 o'clo Roots Fine Joint, at 6 o'clock.		M 1		108
		<u>.90</u> <b>S</b> 1 .60 <b>F</b> 1	RFJ RFJ	Roots Fine Joint, at 6 o'clock		M 1	00:12:00 00:13:33	110
	111		СМ	Crack Multiple, from 7 to 9 o'd		S 3	00:14:51	111
	113		TFA	Tap Factory Active, at 9 o'clo		00	00:15:48	112
	118		TFC	Tap Factory Capped, at 3 o'c			00:16:20	113
	120		TFA	Tap Factory Active, at 9 o'clo			00:16:42	114
	122		СМ	Crack Multiple, from 3 to 9 o'd		S 3	00:18:29	115
	150		TFA	Tap Factory Active, at 3 o'clo			00:20:12	116
	155		CL	Crack Longitudinal, at 9 o'clo		S 2	00:20:55	117
	161	.40	CL	Crack Longitudinal, at 10 o'cl	lock, within 8 inch: YES	S 2	00:21:42	118



Date: 01/16/2007			P.O.#: <b>/0TV0607A</b>		Weather: 1 Dry	Surveyed By: Rigo Alvarez	8	number: 27	PSR: 73227
Тс	otal Pipe Length: 350.00	Surv	vey Custom LAW	er:	System Owner: LAW	Clean Date:		leaned: etting	Map Grid #:
	1:462	position	code	observat	ion		grad	de MPEG	photo
			S2 CL		ngitudinal, at 4 o'clock		tart S 2		120
		207.50	TFA F2 CL		ory Active, at 2 o'clock ngitudinal, at 4 o'clock		nd S 2	00:25:08 2 00:25:54	121 122
		211.90	CL		ngitudinal, at 7 o'clock		S 2		122
		245.60	BSV		oil Visible, from 4 to 6				124
	$\left  \right $	287.60	СМ	Crack Mu	Itiple, from 4 to 9 o'clc	ick, within 8 inch: YES	S	3 00:32:53	125
	1\$93-0397	<u>349.60</u>	АМН	Manhole,	within 8 inch: NO, Re	marks: 1593-0397 End	d Run	00:36:17	126
_	QSR	QMR		SPR	MPR	OPR	SPRI	MPRI	OPRI



_				Inspecti	on report			
	Date: 02/07/2007	Y	P.O.#: DTV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section nur 1021	nber:	PSR: <b>72767</b>
Т	otal Pipe Length: 348.00	Surve	ey Customer: LAW	System Owner: LAW	Clean Date: 02/06/2007	Pre-Clear J Jettin		Map Grid #: <b>1594</b>
Stre	eet: ALLEY			Flow Control: NI	Not Controlled	Start MH:	1594-009	9
City	: LAW			Year Renewed		End MH:	1594-010	0
Loc	ation Code: C Light I	Highway		Tape/Media #: R3	11-017	pipe length:	350.1 ft	
	ison for inspection:	F Routi	ne Assessm	ent	Dia/Height: C Circula Material: VCP Vitr	ar 8" ified Clay Pipe	Pine Length <sup>.</sup>	
	of Sewer:	SS San	-		Lining Method:		ipo zongan	
	in. Area:	0099/15	94-0100/159	4	Category:			
Ren	nark::							
	1:528 p	osition	code	observation		grade	MPEG	photo
	1594-0099	0.10	AMH	Manhole, within 8 inch: NO, Re	emarks: 1594-0099		00:00:40	3965
		4.00	BSV	Broken Soil Visible, from 6 to 7	7 o'clock, within 8 inch: NO	<b>S</b> 5	00:01:51	3966
		4.50	BSV	Broken Soil Visible, at 1 o'cloc	k, within 8 inch: NO	S 5	00:03:13	3967
		4.50	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:03:52	3968
		7.30	TFA	Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:04:27	3969
		8.20	MWL	Water Level, 5 %, within 8 inch	n: NO		00:04:41	3970
		11.40		General Observation, within 8	inch: NO, Remarks: Pipe Joir	it Length	00:05:05	3971
		31.10		3' Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:06:00	3972
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		33.60	TFA	Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:06:30	3973
		48.50	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:07:09	3974
R		72.40	TFA	Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:08:02	3975
<b>\$</b>		93.20	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:08:52	3976
ľ.		108.20	TFA	Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:09:33	3977
		119.80	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:10:07	3978
-		137.50	TFC	Tap Factory Capped, at 3 o'clo	ock, 6", within 8 inch: NO		00:10:56	3979
		146.20	TFA	Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:11:28	3980
		181.20	CL	Crack Longitudinal, at 9 o'cloc	k, within 8 inch: YES	S 2	00:12:40	3981
		185.70	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:13:16	3982
		189.80	CL	Crack Longitudinal, at 11 o'clo	ck, within 8 inch: YES	S 2	00:13:38	3983
		209.30	TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:14:47	3984
		214.90	TFA	Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:15:10	3985
		219.40	СС	Crack Circumferential, from 3	to 4 o'clock, within 8 inch: YES	S S 1	00:16:10	3986
		219.40	CL	Crack Longitudinal, at 4 o'cloc		S 2	00:15:36	3987



Т	Date: 02/07/2007 otal Pipe Length: 348.00		Y0T Survey	P.O.#: <b>1V0607A</b> / Customer <b>LAW</b>	:	Weather: 1 Dry System Owner: LAW	Surveyed By: Rigo Alvarez Clean Date: 02/06/2007	section nur 1021 Pre-Clear J Jettin	ned:	PSR: 72767 Map Grid #: 1594
	1:528	posit	ion	code	obse	ervation		grade	MPEG	photo
		229	9.60 5.10	TFB TFB		Factory Abandoned, at 9 o'd Factory Abandoned, at 3 o'd			00:16:57 00:17:24	3988 3989
\$			2.00	TFA		Factory Active, at 3 o'clock,			00:18:26	3990
2			5.60	СМ		k Multiple, from 10 to 4 o'cl		S 3	00:19:18	3991
1			<u>8.70</u>	BSV		en Soil Visible, from 7 to 8		S 5	00:20:16	3992
		、 <u> </u>	<u>7.40</u>	TFA	•	Factory Active, at 9 o'clock,		0.0	00:20:48	3993
		<u>272</u>		CL		k Longitudinal, at 3 o'clock,		S 2	00:21:11	3994
			.30	TFA		Factory Active, at 3 o'clock,	5 o'clock, within 8 inch: YES	6.4	00:22:14	3995
		298		CC TFA		Factory Active, at 9 o'clock,	,	S 1	00:22:49	3996 3997
			9.30 3.10		•	• • •			00:23:37 00:24:42	3997
		336		TFB		Factory Abandoned, at 3 o'		8.2		3999
	1594-0100	343	3.80 3.80	CL CL		k Longitudinal, at 10 o'clock		S 2 S 2	00:25:18 00:25:50	4000
	$\smile \setminus$		).10	AMH		hole, within 8 inch: NO, Rer		52	00:26:42	4000

5331	0000	32	0	32	2.67	1 0	2.67
5004		20			0.07		a a=
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
	0145	0.00	MDD	0.00		MDDI	000



				inspecti	on report			
	Date: 02/09/2007		P.O.#: <b>Y0TV0607A</b>	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section nur 1043	mber:	PSR: <b>72934</b>
Т	otal Pipe Length: 259.00	Su	rvey Custome LAW	r: System Owner: LAW	Clean Date: 02/08/2007	Pre-Clear J Jettin		Map Grid # <b>1594</b>
Stre	eet: 168TH S	r		Flow Control: N	Not Controlled	Start MH:	1594-002	21
City	: LAW			Year Renewed		End MH:	1594-002	22
Loc	ation Code: C Light H	lighway		Tape/Media #: R3	11-019	pipe length:	339.4 ft	
	ison for inspection:		itine Assessr	nent	Dia/Height: C Circ Material: VCP V	ular 8" itrified Clay Pipe	Pipe Lenath:	
	of Sewer: in. Area:		nitary 1594-0022/15	04	Lining Method:		g	
	nark::	0021/	1394-0022/13	34	Category:			
	1:594 p					avada	MPEG	whete
	1:594 p	osition	code	observation		grade	MPEG	photo
		0.00	AMH	Manhole, within 8 inch: NO, Re	emarks: 1594-0021		00:00:40	4540
	1594-0021	13.80	MWL	Water Level, 5 %, within 8 inch	n: NO		00:01:45	4541
	$\nabla$	16.80	MGO	General Observation, within 8	inch: NO, Remarks: Pipe Jo	pint Length	00:02:14	4542
		24.30	TFA	3' Tap Factory Active, at 12 o'clo	ck, 6", within 8 inch: NO		00:02:46	4543
		39.30	TFA	Tap Factory Active, at 9 o'clock	k, 6", within 8 inch: NO		00:03:29	4544
		52.80	СМ	Crack Multiple, from 2 to 6 o'cl	ock, within 8 inch: YES	S 3	00:04:22	4545
		63.00	TFC	Tap Factory Capped, at 9 o'clo	ock, 6", within 8 inch: NO		00:05:19	4546
		67.20	RFJ	Roots Fine Joint, from 11 to 1	o'clock, within 8 inch: YES	M 1	00:05:43	4547
		68.00	TFA	Tap Factory Active, at 12 o'clo	ck, 6", within 8 inch: NO		00:06:19	4548
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		88.10	RFJ	Roots Fine Joint, at 4 o'clock, v	within 8 inch: YES	M 1	00:07:07	4549
8		104.80	TFA	Tap Factory Active, at 9 o'clock	k, 6", within 8 inch: NO		00:08:02	4550
		121.20	S1 RFJ	Roots Fine Joint, at 4 o'clock, v	within 8 inch: YES, Start	M 1	00:08:46	4551
<b>**</b>		127.50	CL	Crack Longitudinal, at 3 o'clock	k, within 8 inch: YES	S 2	00:10:01	4552
(((		127.50	F1 RFJ	Roots Fine Joint, at 4 o'clock, v	within 8 inch: YES, End	M 1	00:09:27	4553
		142.70	RFJ	Roots Fine Joint, from 4 to 9 o	clock, within 8 inch: YES	M 1	00:10:54	4554
*		143.80	TFA	Tap Factory Active, at 9 o'clock	k, 6", within 8 inch: NO		00:11:26	4555
		146.70	TFA	Tap Factory Active, at 3 o'clock	k, 6", within 8 inch: NO		00:11:44	4556
		157.20	СМ	Crack Multiple, from 3 to 10 o'd	clock, within 8 inch: YES	S 3	00:12:35	4557
		175.80	RFJ	Roots Fine Joint, at 3 o'clock, v	within 8 inch: YES	M 1	00:13:37	4558
		176.50	TFA	Tap Factory Active, at 3 o'clock	k, 6", within 8 inch: NO		00:14:06	4559
		185.20	TFA	Tap Factory Active, at 9 o'clock	k, 6", within 8 inch: NO		00:14:36	4560
		224.20	TFA	Tap Factory Active, at 3 o'clock	k, 6", within 8 inch: NO		00:16:38	4561
		226.60	TFA	Tap Factory Active, at 9 o'clock	k, 6", within 8 inch: NO		00:17:09	4562
		241.60	FM	Fracture Multiple, from 3 to 9 o		S 4	00:25:47	4563



Т	Date: 02/09/2007 Total Pipe Length: 259.00	_	P.O.#: Weather: Surveyed By:   Y0TV0607A 1 Dry Rigo Alvarez   Survey Customer: System Owner: Clean Date:   LAW LAW 02/08/2007				nber: ned: g	PSR: <b>72934</b> Map Grid #: <b>1594</b>	
	1:594 p	osition	code	observation		grade	MPEG	photo	
ĸ		264.10	TFA	Tap Factory Active, at 3 o'clock	6" within 8 inch: NO		00:27:04	4564	
		266.30	TFA	Tap Factory Active, at 9 o'clock			00:27:04	4565	
2		<u>299.30</u> 302.00	TFA TFA	Tap Factory Active, at 3 o'clock	, ,		00:28:42	4566 4567	
		323.10	TFC	Tap Factory Capped, at 3 o'clo			00:29:03	4568	
		324.20	CL	Crack Longitudinal, at 3 o'clock	k, within 8 inch: YES	S 2	00:30:46	4569	
	1594-0022	325.70	TFC	Tap Factory Capped, at 9 o'clo	ck, 6", within 8 inch: NO		00:31:21	4570	
		339.40	AMH	Manhole, within 8 inch: NO, Re	emarks: 1594-0022		00:32:11	4571	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4132	1600	14	6	20	2.8	1	1.82
			WinConExport n	adh // pagai 06			



	<b>D</b> /				-	on report				505
	Date: 02/09/2007		P.O.#: FV0607A	Weath 1 Dr		Surveyed By: Rigo Alvarez	Se	ction nur 1049	nber:	PSR: <b>72915</b>
٦	otal Pipe Length 109.00		y Customer: LAW	System O LAW		Clean Date: 02/08/2007	P	re-Clear J Jettir		Map Grid #: 1594
Stre	et: <b>166T</b>	H ST		Flow Control:	N No	ot Controlled	Start M	1H:	1594-000	)3
City	: LAW			Year Renewe	d		End M	H:	1594-000	)4
oc	ation Code: C Lig	Iht Highway		Tape/Media #	: R31	1-019	pipe le	ngth:	121.7 ft	
lea	ison for inspectio	n: F Routin	e Assessme	ent		•	Circular 8"			
Jse	of Sewer:	SS Sanit	ary			Material: VC Lining Method:	P Vitrified Cla	y Pipe	Pipe Length:	
)ra	in. Area:	0003/159	4-0004/1594	1		Category:				
Rer	nark::									
	1:300	position	code	observation				grade	MPEG	photo
	1594-0003	0.00	AMH	Manhole, within 8 ind	ch: NO. Ren	narks: 1594-0003			00:00:44	4711
		6.00		Water Level, 10 %, v					00:01:47	4712
									00.01.47	
		12.70		General Observatior 3'	n, within 8 in	ch: NO, Remarks: Pip	e Joint Length		00:02:23	4713
		22.20	CC	Crack Circumferentia	al, from 12 t	o 11 o'clock, within 8	inch: NO	S 1	00:03:29	4714
		27.20	MWL	Water Level, 35 %, v	within 8 inch	: NO			00:04:15	4715
,,		40.60	MWL	Water Level, 15 %, v	within 8 inch	: NO			00:04:57	4716
Ş		40.90	CC	Crack Circumferentia	al, from 12 t	o 11 o'clock, within 8	inch: NO	S 1	00:05:30	4717
2		44.30	СМ	Crack Multiple, from	9 to 3 o'cloo	ck, within 8 inch: YES		S 3	00:06:28	4718
Š.		48.40	MWL	Water Level, 35 %, v	within 8 inch	: NO			00:07:08	4719
ſ		50.10	СМ	Crack Multiple, from	10 to 3 o'clo	ock, within 8 inch: YES	6	S 3	00:07:36	4720
		56.60	СМ	Crack Multiple, from	2 to 4 o'cloo	ck, within 8 inch: YES		S 3	00:08:44	4721
		60.00			o'clock, wit	hin 8 inch: YES, Rem	arks: Broken	S 5	00:10:20	4722
		65.80	B	· · · · · · · · · · · · · · · · · · ·	o'clock, withi	in 8 inch: YES, Rema	rks: Broken	S 5	00:12:46	4723
	$ \land$	68.80	В		o'clock, wit	hin 8 inch: YES, Rem	arks: Broken	S 4	00:14:39	4724
		76.50		Joint Water Level, 20 %, v	within 8 inch	: NO			00:15:47	4725
		84.50		Broken, from 10 to 1				S 4	00:16:49	4726
		<u> </u>			COOR, WIL			0 7	00.10.49	7120
		115.40	СМ	Crack Multiple from	8 to 4 o'clor	ck, within 8 inch: YES		S 3	00:18:32	4727
								0.0		
		121.70	AMH	Manhole, within 8 ind	ch: NO, Ren	narks: 1594-0004			00:19:26	4728
	1594-0004									
	QSR	QMR		PR M	MPR	OPR	SPRI		MPRI	OPRI

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			Inspect	ion report			
	Date: /13/2007	P.O.#: <b>Y0TV0607A</b>	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section nur 1062	nber:	PSR: <b>72862</b>
	Pipe Length: 236.00	Survey Custome LAW		Clean Date: 02/13/2007	Pre-Clear J Jettin		Map Grid #: <b>1594</b>
Street:	172ND ST		Flow Control: N	Not Controlled	Start MH:	1594-007	71
City:	LAW		Year Renewed		End MH:	1594-007	70
	Code: C Light High		· ·		pipe length:	215.9 ft	
Reason for Use of Se	•	Routine Assessr	nent	Dia/Height: C Circular Material: VCP Vitrifi	8" ed Clay Pipe F	Pipe Length:	
Drain. Ar		070/1594-0071/15	94	Lining Method: Category:			
Remark::				Category.			
	1:429 posit	ion code	observation		grade	MPEG	photo
159	4-0071					00-00-40	400.4
	(	0.00 AMH	Manhole, within 8 inch: NO, R	emarks: 1594-00/1		00:00:43	4904
	12	2.00 MWL	Water Level, 5 %, within 8 incl	h: NO		00:01:41	4905
	14	4. <u>80</u> MGO	General Observation, within 8 3'	inch: NO, Remarks: Pipe Joint I	₋ength	00:02:11	4906
	35	5.70 TFA	Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:03:02	4907
	38	3.10 TFA	Tap Factory Active, at 2 o'cloc	k, 6", within 8 inch: NO		00:03:21	4908
	71	1.10 TFA	Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:04:36	4909
	76	<u>5.70</u> TFA	Tap Factory Active, at 3 o'cloc	k, 6", within 8 inch: NO		00:05:01	4910
	76	6.70 RBL	Roots Ball Lateral, at 3 o'clock	, 65 %, within 8 inch: NO	M 4	00:05:22	4911
<u>s</u>		6.50 TFA	Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:7:10	4912
\$	116	6.50 RML	Roots Medium Lateral, at 9 o'd	clock, 30 %, within 8 inch: NO	M 3	00:07:30	4913
2		7.00 TFA	Tap Factory Active, at 12 o'clo	ock, 6", within 8 inch: NO		00:08:33	4914
<u>r</u>		0.80 RMJ	Roots Medium Joint, from 1 to	3 o'clock, 25 %, within 8 inch: Y	ES M 3	00:09:26	4915
		0.90 CM	Crack Multiple, from 8 to 4 o'c	lock, within 8 inch: YES	S 3	00:10:08	4916
		7.40 RFJ	Roots Fine Joint, from 2 to 4 c	clock, within 8 inch: YES	M 1	00:10:51	4917
	152	2.20 TFA	Tap Factory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:11:32	4918
	152	2.20 CC	Crack Circumferential, from 1	1 to 7 o'clock, within 8 inch: NO	S 1	00:12:22	4919
	153	8.10 RFJ	Roots Fine Joint, from 9 to 3 c	clock, within 8 inch: YES	M 1	00:12:56	4920
	153	3.10 CM	Crack Multiple, from 7 to 1 o'c	lock, within 8 inch: YES	S 3	00:13:43	4921
	155	9.60 RFJ	Roots Fine Joint, at 9 o'clock,	within 8 inch: YES	M 1	00:14:30	4922
	159	9.60 CC	Crack Circumferential, from 4	to 7 o'clock, within 8 inch: YES	S 1	00:15:10	4923



	Date: 02/13/2007		P.O.#: )TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section nun 1062		PSR: <b>72862</b>
То	otal Pipe Length: 236.00	Surve	ey Customer LAW	er: System Owner: Clean Date: LAW 02/13/2007		Pre-Clear J Jettin		Map Grid #: <b>1594</b>
	1:429 po	osition	code	observation		grade	MPEG	photo
	_							
		191.10	TFA	Tap Factory Active, at 2 o'clock,	6", within 8 inch: NO		00:16:58	4925
\$		193.10	JOM	Joint Offset Medium, within 8 inc	ch: NO	S 1	00:17:39	4926
		193.10	CL	Crack Longitudinal, at 9 o'clock,	within 8 inch: YES	S 2	00:18:08	4927
		193.10	CL	Crack Longitudinal, at 2 o'clock,	within 8 inch: YES	S 2	00:18:36	4928
ĸ		193.90	TFA	Tap Factory Active, at 12 o'clock	<, 6", within 8 inch: NO		00:19:12	4929
		213.00	FM	Fracture Multiple, from 5 to 12 o	clock, within 8 inch: YES	S 4	00:20:38	4930
		215.90	FM	Fracture Multiple, from 5 to 11 o	clock, within 8 inch: YES	S 4	00:21:51	4931
		215.90	MSA	Abandoned Survey, within 8 incl Multiple	h: NO, Remarks: Due To Fract	ure	00:22:50	4932

1				Win Con Evin orthm				
I	4232	4132	21	13	34	2.33	2.17	2.27
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI



• •				Increat	ion roport	Tel: (714	) 639-8352, Fax	: (714) 283-8578
	Data		D.O.#.		ion report	a action nu	umb a ru	DOD.
	Date: 02/13/2007	Y0	P.O.#: TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section nu 1064		PSR: <b>72863</b>
То	otal Pipe Leng 342.00	th: Surve	y Custome	r: System Owner: LAW	Clean Date: 02/13/2007	Pre-Clea J Jetti		Map Grid #: <b>1594</b>
Stree	et: <b>17</b>	2ND ST		Flow Control: N	Not Controlled	Start MH:	1594-00	71
city:	LA	w		Year Renewed		End MH:	1594-00	72
.oca	tion Code: C	Light Highway		Tape/Media #: R	311-021	pipe length:	216 ft	
Reas	son for inspec	tion: F Routir	ne Assessr	nent	e e	cular 8"	Din e L e e etha	
	of Sewer:	SS Sani	•		Material: VCP	Vitrified Clay Pipe	Pipe Length:	
	n. Area:	0071/159	94-0072/15	94	Category:			
≺em	ark::							
	1:550	position	code	observation		grade	MPEG	photo
	1594-0071							
		0.10	AMH	Manhole, within 8 inch: NO, R	Remarks: 1594-0071		00:00:52	4946
		7.80	MWL	Water Level, 5 %, within 8 inc	ch: NO		00:01:49	4947
		11.00	В	Broken, from 2 to 5 o'clock, w Joint	ithin 8 inch: YES, Remarks	s: Broken S 5	00:03:01	4948
		41.80	RFJ	Roots Fine Joint, at 2 o'clock,	within 8 inch: YES	M 1	00:04:39	4949
		50.70	RFJ	Roots Fine Joint, from 8 to 10	o'clock, within 8 inch: YES	6 M 1	00:06:27	4950
		52.20	TFA	Tap Factory Active, at 9 o'cloo	ck, 6", within 8 inch: NO		00:06:58	4951
ę		54.50	TFA	Tap Factory Active, at 3 o'cloo	ck, 6", within 8 inch: NO		00:07:17	4952
)		71.30	RFJ	Roots Fine Joint, from 8 to 9 of	o'clock, within 8 inch: YES	M 1	00:08:06	4953
		<u> </u>	1 RFJ	Roots Fine Joint, at 10 o'cloch	k, within 8 inch: YES, Start	M 1	00:09:11	4954
\$		91.10	TFA	Tap Factory Active, at 9 o'cloo	ck, 6", within 8 inch: NO		00:09:28	4955
(		93.70	TFA	Tap Factory Active, at 3 o'cloo	ck, 6", within 8 inch: NO		00:09:53	4956
		94.90 F	1 RFJ	Roots Fine Joint, at 10 o'clock		M 1	00:10:09	4957
		139.50	TFA	Tap Factory Active, at 9 o'cloo	ck, 6", within 8 inch: NO		00:12:00	4958
		140.50 <b>S</b>		Roots Fine Joint, from 8 to 4 d		Start M 1	00:12:23	4959
		141.70	TFA	Tap Factory Active, at 3 o'cloo			00:12:58	4960
		143.30 F		Roots Fine Joint, from 8 to 4 d		End M 1	00:12:00	4961
		175.50	TFA	Tap Factory Active, at 9 o'cloc	, , ,		00:14:44	4962
		180.90	TFA	Tap Factory Active, at 3 o'cloc			00:14:44	4963
		195.90	TFA	Tap Factory Active, at 3 o'cloc			00:15:51	4964
	1594-0072	216.00	АМН	Manhole, within 8 inch: NO, R	ιαίικ <b>5.</b> 1394-00/Ζ		00:16:56	4965
	QSR	QMR		SPR MPR	OPR	SPRI	MPRI	OPRI
	5100	1500		5 5	10	5	1	1.67



						Inspecti	on report				
	Date: 02/14/2007			0.#: <b>/0607A</b>		Weather: 1 Dry	Surveyed By: Rigo Alvarez		tion nur: 1079	nber:	PSR: <b>72870A</b>
To	tal Pipe Lengt 192.00	h: Su		Customer AW	:	System Owner: LAW	Clean Date: 02/13/2007		re-Clear J Jettin		Map Grid #: <b>1594</b>
01										•	
Stree		ND ST					Not Controlled	Start M		1594-007	
City:	LAN ion Code: C L					r Renewed e/Media #: R3	11-022	End Mi		1594-007	(7
	on for inspecti			Assessn			-	pipe lei	igui.	134.6 ft	
	of Sewer:		anitar		ient		°	CP Vitrified Cla	y Pipe	Pipe Length:	
	. Area:			4-0077/1	594		Lining Method: Category:				
Rema							Calegory.				
	1:350	position		code	observatio	on			grade	MPEG	photo
	594-0076A	0.00 0.00 4.50 9.30 11.80 14.80 20.50 53.40	S1 F1 S2 F2	AMH DAGS DAGS MWL DAGS DAGS	Deposits A NO, Start Deposits A NO, End Water Lev General O 3' Deposits A NO, Start Deposits A NO	Attached Grease, fro Attached Grease, fro el, 10 %, within 8 inc bservation, within 8 Attached Grease, fro Attached Grease, fro	emarks: Undocumente m 9 to 3 o'clock, 15 %, m 9 to 3 o'clock, 15 %, ch: NO inch: NO, Remarks: Pi m 10 to 2 o'clock, 10 % m 9 to 3 o'clock, 30 %, m 10 to 2 o'clock, 10 %	within 8 inch: within 8 inch: pe Joint Length 6, within 8 inch: within 8 inch:	M 3 M 3 M 2 M 4	00:01:11 00:01:55 00:03:00 00:03:34 00:04:01 00:04:27 00:05:09	5273 5274 5275 5276 5277 5278 5279 5280
		78.90		DAGS	Deposits A	ttached Grease, fro	m 11 to 1 o'clock, 5 %,	within 8 inch:	M 2	00:11:04	5281
		85.50		HSV		/isible, at 2 o'clock, v	within 8 inch: YES		S 5	00:12:16	5282
		85.70		CL	Crack Lon	gitudinal, at 3 o'clocl	k, within 8 inch: YES		S 2	00:13:05	5283
		91.50		DAGS		ttached Grease, fro	m 11 to 1 o'clock, 5 %,	within 8 inch:	M 2	00:13:51	5284
		100.90		DAGS		ttached Grease, fro	m 10 to 2 o'clock, 5 %,	within 8 inch:	M 2	00:14:52	5285
		107.30		MWL	YES Water Lev	el, 40 %, within 8 inc	ch: NO			00:15:40	5286
		116.80		MCU	Camera U	nderwater, within 8 i	nch: NO		M 4	00:16:55	5287
		132.80		MGO	General O	bservation, within 8	inch: NO, Remarks: Ca	amera Out Of		00:18:51	5288
		134.60		В	Water Broken, fro	om 4 to 6 o'clock. wit	thin 8 inch: NO, Remai	ks: Broken Pipe	S 4	00:29:00	5289
		134.60		MSA	Under Wat	ter	ch: NO, Remarks: Due			00:31:51	5290
					Pipe From		and the, normania. Due	o Brokon		50.01.01	0200
		QMR		1	SPR	MPR	OPR	SPRI		MPRI	OPRI
	QSR	QIVIN			0.11		OFK	SER			UT N